

**GOVERNING BOARD**

**Craig Pedersen, Chair**  
Supervisor, Kings County

**Lloyd Pareira, Vice Chair**  
Supervisor, Merced County

**Drew M. Bessinger**  
Councilmember, City of Clovis

**Vito Chiesa**  
Supervisor, Stanislaus County

**David Couch**  
Supervisor, Kern County

**Christina Fugazi**  
Vice Mayor, City of Stockton

**Deborah Lewis**  
Mayor Pro Tem, City of Los Banos

**Buddy Mendes**  
Supervisor, Fresno County

**Tania Pacheco-Werner, PhD.**  
Appointed by Governor

**Alvaro Preciado**  
Mayor, City of Avenal

**Monte Reyes**  
Mayor, City of Porterville

**Robert Rickman**  
Supervisor, San Joaquin County

**Alexander C. Sherriffs, M.D.**  
Appointed by Governor

**Amy Shuklian**  
Supervisor, Tulare County

**Tom Wheeler**  
Supervisor, Madera County

---

**Samir Sheikh**  
Executive Director  
Air Pollution Control Officer

---

Northern Region Office  
4800 Enterprise Way  
Modesto, CA 95356-8718  
(209) 557-6400 • FAX (209) 557-6475

---

Central Region Office  
1990 East Gettysburg Avenue  
Fresno, CA 93726-0244  
(559) 230-6000 • FAX (559) 230-6061

---

Southern Region Office  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
(661) 392-5500 • FAX (661) 392-5585

---

DATE: August 19, 2021

TO: SJVUAPCD Governing Board

FROM: Samir Sheikh, Executive Director/APCO  
Project Coordinator: Todd DeYoung



RE: **ITEM NUMBER 23: RECEIVE AND FILE DRAFT  
2021 ANNUAL DEMONSTRATION REPORT FOR  
DISTRICT RULE 9610 (SIP-CREDITABILITY OF  
EMISSION REDUCTIONS GENERATED  
THROUGH INCENTIVE PROGRAMS)**

**RECOMMENDATION:**

Receive and file the draft 2021 Annual Demonstration Report for District Rule 9610 and direct the Executive Director/APCO to receive public comments until August 31, 2021 and address those comments prior to submitting the report to the California Air Resources Board (ARB) and U.S. Environmental Protection Agency (EPA).

**BACKGROUND:**

The San Joaquin Valley Air Pollution Control District currently operates one of the largest and most well-respected incentive programs in California. Since 1992, the District's incentive programs have provided over \$1.7 billion in incentive funds. This has been matched by cost-sharing on the part of participating businesses, public agencies, and residents, who together have invested over \$2.0 billion, for a total public/private investment of more than \$3.8 billion in low and zero emissions equipment and operations. These combined efforts have accelerated the adoption of cleaner technologies (beyond that achieved by stringent regulations alone), achieved over 199,000 tons of lifetime emission reductions, improved air quality and public health, and progressed the San Joaquin Valley (Valley) towards attainment of increasingly stringent federal air quality standards. In addition to District-administered incentive programs, the California Air Resources Board (ARB) and the United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) also implement highly

effective incentive programs, further reducing emissions in the Valley.

On June 20, 2013, your Board adopted District Rule 9610 (State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs). This first-of-its-kind rule is the result of a collaborative effort between the District, EPA, CARB and the NRCS to create a mechanism to obtain state implementation plan (SIP) credit for the emission reductions achieved through both District and NRCS voluntary incentive programs. Pursuant to District Rule 9610, the District must submit an annual demonstration report to CARB and EPA to quantify incentive-based emission reductions available for use to meet SIP commitments each year by August 31<sup>st</sup>. District Rule 9610 also requires that this draft annual demonstration report be released to the public and presented to your Board, prior to submittal to CARB and EPA.

## **DISCUSSION:**

District Rule 9610 ensures, through extensive documentation, that the incentive-based emission reductions quantified and claimed for SIP credit meet each of the following four integrity principles:

- **Surplus:** emission reductions are not otherwise required by any federal, state, or local regulation or other legal mandate. These emission reductions must also be in excess of the baseline inventories underlying a SIP attainment demonstration.
- **Quantifiable:** emission reductions can be reliably determined and replicated through the use of well-established, publicly available emission factors and calculation methodologies.
- **Enforceable:** based on the following provisions:
  - The emission reductions must be independently and practicably verifiable through inspections, monitoring, and/or other mechanisms;
  - Incentive program violations are defined through legally binding contracts, including identifying the party or parties responsible for ensuring that emission reductions are achieved;
  - Grantees are obligated to provide all records needed to demonstrate that emission reductions are achieved; and
  - The public has access to all emission-related information for reductions claimed in the annual demonstration report, as outlined in Section 4.0 of Rule 9610.
- **Permanent:** for the lifetime of the project, assured by actions taken to physically destroy, or permanently disable, baseline equipment or vehicles, or to permanently amend practices to ensure the reduction of emissions for the duration of the project life.

Pursuant to Sections 4.0 and 5.0 of the rule, the District must submit an annual demonstration report to ARB and EPA to quantify incentive-based emission reductions available for use to meet SIP commitments each year by August 31<sup>st</sup>. The attached Annual Demonstration Report includes 2,147 new emission reduction incentive projects for the current reporting period.

These new projects include:

- 1,449 off-road equipment replacements/repowers
- 408 off-road equipment replacements (administered by NRCS)
- 6 agricultural irrigation pump engine replacements
- 1 on-road heavy-duty truck replacements
- 1 locomotive replacements
- 15 Yard truck replacements
- 195 agricultural UTV replacements
- 72 agricultural on-road heavy-duty truck replacements

The emission reductions quantified and claimed for SIP credit as part of this Annual Demonstration Report are accounted for in the tables below and include reductions of oxides of nitrogen (NO<sub>x</sub>), particulate matter (PM), and reactive organic gases (ROG). Extensive documentation of these reductions, related SIP commitments, and other Rule 9610 requirements are included in the attached report and in supporting data provided in the Annual Demonstration Report Data Sheet that accompanies the report. Based on this level of emissions reductions, Rule 9610 is already achieving sufficient emissions reductions to satisfy SIP commitments as documented in the Annual Demonstration Report.

Table 1 below summarizes the total SIP-creditable incentive-based emission reductions generated through incentive programs, expressed in tons per year and tons per day, claimed in the 2021 Annual Demonstration Report.

**Table 1: Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs**

| Current Reporting Period |                                   |       |        |                                  |      |      |
|--------------------------|-----------------------------------|-------|--------|----------------------------------|------|------|
| Year                     | Emissions Reduced (tons per year) |       |        | Emissions Reduced (tons per day) |      |      |
|                          | NOx                               | PM    | ROG    | NOx                              | PM   | ROG  |
| 2012                     | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 |
| 2013                     | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 |
| 2014                     | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 |
| 2015                     | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 |
| 2016                     | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 |
| 2017                     | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 |
| 2018                     | 2.49                              | 0.22  | 0.35   | 0.01                             | 0.00 | 0.00 |
| 2019                     | 82.08                             | 6.04  | 9.42   | 0.22                             | 0.02 | 0.03 |
| 2020                     | 974.35                            | 64.76 | 102.59 | 2.67                             | 0.18 | 0.28 |
| 2021                     | 1015.56                           | 67.63 | 107.31 | 2.78                             | 0.19 | 0.29 |
| 2022                     | 1013.37                           | 67.56 | 107.14 | 2.78                             | 0.19 | 0.29 |
| 2023                     | 996.92                            | 66.89 | 105.77 | 2.73                             | 0.18 | 0.29 |
| 2024                     | 996.27                            | 66.89 | 105.76 | 2.73                             | 0.18 | 0.29 |
| 2025                     | 981.03                            | 66.51 | 104.91 | 2.69                             | 0.18 | 0.29 |
| 2026                     | 981.03                            | 66.51 | 104.91 | 2.69                             | 0.18 | 0.29 |
| 2027                     | 969.66                            | 65.72 | 103.64 | 2.66                             | 0.18 | 0.28 |
| 2028                     | 967.16                            | 65.49 | 103.29 | 2.65                             | 0.18 | 0.28 |
| 2029                     | 891.45                            | 59.78 | 94.47  | 2.44                             | 0.16 | 0.26 |
| 2030                     | 45.28                             | 3.02  | 4.71   | 0.12                             | 0.01 | 0.01 |
| 2031                     | 4.21                              | 0.16  | 0.00   | 0.01                             | 0.00 | 0.00 |

Table 2 summarizes the cumulative total SIP-creditable incentive-based emission reductions generated through incentive programs, expressed in tons per year and tons per day, claimed in the 2013 - 2021 Annual Demonstration Reports.

**Table 2: Cumulative Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs**

| Cumulative Reporting Period |                                   |        |        |                                  |      |      |
|-----------------------------|-----------------------------------|--------|--------|----------------------------------|------|------|
| Year                        | Emissions Reduced (tons per year) |        |        | Emissions Reduced (tons per day) |      |      |
|                             | NOx                               | PM     | ROG    | NOx                              | PM   | ROG  |
| 2009                        | 1098.99                           | 35.78  | 116.17 | 3.01                             | 0.10 | 0.32 |
| 2010                        | 2655.71                           | 82.02  | 237.29 | 7.28                             | 0.22 | 0.65 |
| 2011                        | 4112.25                           | 141.11 | 364.96 | 11.27                            | 0.39 | 1.00 |
| 2012                        | 5804.68                           | 210.38 | 477.51 | 15.90                            | 0.58 | 1.31 |
| 2013                        | 6699.86                           | 248.37 | 572.27 | 18.36                            | 0.68 | 1.57 |
| 2014                        | 6494.06                           | 243.85 | 564.13 | 17.79                            | 0.67 | 1.55 |
| 2015                        | 6528.68                           | 252.86 | 620.84 | 17.89                            | 0.69 | 1.70 |
| 2016                        | 6491.76                           | 256.09 | 673.48 | 17.79                            | 0.70 | 1.85 |
| 2017                        | 6142.10                           | 250.86 | 719.09 | 16.83                            | 0.69 | 1.97 |
| 2018                        | 6689.96                           | 288.29 | 784.01 | 18.33                            | 0.79 | 2.15 |
| 2019                        | 7038.71                           | 339.65 | 850.61 | 19.28                            | 0.93 | 2.33 |
| 2020                        | 7122.99                           | 377.45 | 859.10 | 19.52                            | 1.03 | 2.35 |
| 2021                        | 6352.38                           | 348.06 | 755.03 | 17.40                            | 0.95 | 2.07 |
| 2022                        | 5622.99                           | 314.69 | 653.73 | 15.41                            | 0.86 | 1.79 |
| 2023                        | 4976.10                           | 286.83 | 571.26 | 13.63                            | 0.79 | 1.57 |
| 2024                        | 4360.32                           | 259.84 | 469.27 | 11.95                            | 0.71 | 1.29 |
| 2025                        | 3736.71                           | 232.41 | 392.41 | 10.24                            | 0.64 | 1.08 |
| 2026                        | 3307.48                           | 208.62 | 342.53 | 9.06                             | 0.57 | 0.94 |
| 2027                        | 2697.49                           | 176.72 | 277.26 | 7.39                             | 0.48 | 0.76 |
| 2028                        | 2012.44                           | 132.71 | 206.35 | 5.51                             | 0.36 | 0.57 |
| 2029                        | 1083.43                           | 70.46  | 108.70 | 2.97                             | 0.19 | 0.30 |
| 2030                        | 129.36                            | 6.48   | 7.74   | 0.35                             | 0.02 | 0.02 |
| 2031                        | 88.30                             | 3.62   | 3.04   | 0.24                             | 0.01 | 0.01 |

The final 2021 Annual Demonstration Report will be forwarded to CARB and EPA after considering and addressing public comments.

Attachment: 2021 Annual Demonstration Report (137 pages)

San Joaquin Valley Unified Air Pollution Control District  
Meeting of the Governing Board  
**August 19, 2021**

**RECEIVE AND FILE DRAFT 2021 ANNUAL  
DEMONSTRATION REPORT FOR DISTRICT RULE  
9610 (SIP-CREDITABILITY OF EMISSION  
REDUCTIONS GENERATED THROUGH INCENTIVE  
PROGRAMS)**

**Attachment:**

**2021 Annual Demonstration Report**  
**(137 PAGES)**

**San Joaquin Valley Unified Air Pollution Control District**

# **2021 Annual Demonstration Report**

**SIP-Creditability of Emission Reductions Generated through Incentive Programs**

This page intentionally blank.



Contents

- Executive Summary .....5
- I. Annual Demonstration Report Elements.....8
- II. Incentive Program Guidelines ..... 10
  - A. SIP-Creditable Incentive Program Guidelines ..... 10
  - B. Description of SIP-Creditable Program Guidelines ..... 12
    - 1. CARB Carl Moyer Memorial Air Quality Standards Attainment Program Guidelines13
    - 2. CARB Proposition 1B: Goods Movement Emission Reduction Program Guidelines16
    - 3. FARMER Program Guidelines ..... 18
    - 4. USDA NRCS Combustion Systems Improvement of Mobile Engines Incentive Program Guidelines ..... 20
    - 5. Guidelines Used Under Section 3.2 of Rule 9610 ..... 24
- III. Relevant SIP commitments.....29
  - A. SIP Commitments Satisfied..... 29
  - B. Pending SIP Commitments ..... 30
  - C. SIP Commitment Shortfalls ..... 31
- IV. Monitoring and Enforcement Activities..... 32
  - A. Carl Moyer Program Specific Monitoring and Enforcement Activities ..... 34
  - B. Proposition 1B Program Monitoring and Enforcement Activities ..... 34
  - C. Combustion Systems Improvement of Mobile Engines Program Monitoring and Enforcement Activities ..... 36
- V. Incentive Program Evaluation ..... 39
- VI. Summary Of Emission Reductions And Cost Effectiveness ..... 40
- District Incentive Program Project Information ..... 58
- NRCS Combustion System Improvement Program Project Information..... 123

List of Tables

Table 1: Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs .....6

Table 2: Cumulative Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs .....7

Table 3: Annual Demonstration Report Requirements .....8

Table 4: Carl Moyer Program Project Types by Component ..... 10

Table 5: Proposition 1B Program Project Types by Component ..... 11

Table 6: FARMER Program Project Types by Component ..... 12

Table 7: Incentive Program Project Inspections .....32

Table 8: Incentive Program Annual Usage Reports .....33

Table 9: Carl Moyer Program Projects with Contractual Violations ..... 34

Table 10: Proposition 1B Program Projects with Contractual Violations ..... 35

Table 11: Canceled NRCS Projects Previously Reported .....38

Table 12: Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs ..... 41

Table 13: Emission Reductions Claimed through use of Incentive Program Guidelines Pursuant to Section 3.1 ..... 43

Table 14: Emission Reductions Claimed through use of Incentive Program Guidelines Pursuant to Section 3.2 ..... 44

Table 15: Summary of District-Administered Incentive Programs .....45

Table 16: Total Claimed SIP-Creditable Incentive-Based Emission Reductions Using the Carl Moyer Guidelines Pursuant to Section 3.1 and Section 3.2 ..... 46

Table 17: SIP-Creditable Incentive-Based Emission Reductions for Off-Road Compression-Ignition Equipment Replacement Claimed Pursuant to Section 3.1 ..... 48

Table 18: SIP-Creditable Incentive-Based Emission Reductions for Off-Road Compression-Ignition Equipment Repower and Retrofit Claimed Pursuant to Section 3.1 ..... 49

Table 19: SIP-Creditable Incentive-Based Emission Reductions for Repower of Agricultural Pumps Engines Claimed Pursuant to Section 3.1 .....50

Table 20: SIP-Creditable Incentive-Based Emission Reductions for Purchase of New Electric Agricultural Pump Motors Claimed Pursuant to Section 3.1 ..... 51

Table 21: SIP-Creditable Incentive-Based Emission Reductions for Locomotives, Yard Trucks, New Electric Forklift Purchase Claimed Pursuant to Section 3.2.....52

Table 22: SIP-Creditable Incentive-Based Emission Reductions for On-Road Trucks....53

Table 23: SIP-Creditable Incentive-Based Emission Reductions for Locomotive Replacement .....54

Table 24: SIP-Creditable Incentive-Based Emission Reductions for Agricultural UTV and On-Road Truck Replacement Claimed Pursuant to Section 3.2 ..... 55

Table 25: SIP-Creditable Incentive-Based Emission Reductions for Agricultural Equipment .....56

**EXECUTIVE SUMMARY**

The San Joaquin Valley Unified Air Pollution Control District (District) currently operates one of the largest and most well-respected incentive programs in California. Since 1992, the District's incentive programs have provided over \$1.7 billion in incentive funds. This has been matched by cost-sharing on the part of participating businesses, public agencies, and residents, who together have invested over \$2 billion, for a total public/private investment of well over \$3.8 billion in low and zero emissions equipment and operations. These combined efforts have accelerated the adoption of cleaner technologies (beyond that achieved by stringent regulations alone) achieved over 199,132 tons of lifetime emission reductions, improved air quality and public health, and progressed the San Joaquin Valley (Valley) towards attainment of increasingly stringent federal air quality standards. In addition to District-administered incentive programs, the California Air Resources Board (CARB) and the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) also implement highly effective incentive programs, further reducing emissions in the Valley.

Although incentive programs result in real air quality benefits, the emission reductions resulting from voluntary incentive programs have generally not been quantified for or provided credit in attainment plans to meet federal Clean Air Act (CAA) requirements. District Rule 9610 (State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs) serves as an administrative mechanism for crediting emission reductions achieved in the Valley through incentive programs for use in state implementation plans (SIPs). The future year emission reductions claimed in District SIPs through Rule 9610 are to be quantified through annual demonstration reports, such as this Annual Demonstration Report.

The emission reductions quantified and claimed for SIP credit as part of this report are accounted for in Table 1 and Table 2 below and include reductions of oxides of nitrogen (NO<sub>x</sub>), particulate matter (PM), and reactive organic gases (ROG). Extensive documentation of these reductions, related SIP commitments, and other Rule 9610 requirements are included in the remainder of this report and in supporting data provided in the Annual Demonstration Report Data Sheet that accompanies this report.

On Thursday April 9, 2015, EPA finalized a limited approval and limited disapproval of Rule 9610 as a revision to the California SIP<sup>1</sup>. The associated Technical Support Document<sup>2</sup> contained recommendations for implementation for the Manual of Procedures (MOP) and the Annual Demonstration Report. The District evaluated these recommendations and incorporated them throughout this Annual Demonstration Report as appropriate.

---

<sup>1</sup> EPA. 40 CFR Part 52. *Revision to the California State Implementation Plan; San Joaquin Valley Unified Air Pollution Control District; Quantification of Emission Reductions From Incentive programs* Retrieved on April 9, 2015 from <https://www.regulations.gov/document?D=EPA-R09-OAR-2013-0754-0056>.

<sup>2</sup> EPA. *EPA's Notice of Proposed Rulemaking for the California State Implementation Plan San Joaquin Valley Unified Air Pollution Control District's Rule 9610, State Implementation Plan Credit for Emission Reductions Generated through Incentive Programs*. Retrieved on June 19, 2014 from <http://www.regulations.gov/>.

Table 1 summarizes the total SIP-creditable incentive-based emission reductions generated through incentive programs, expressed in tons per year and tons per day, claimed within the 2021 Annual Demonstration Report. The data also includes 371 District projects and 152 NRCS projects that were implemented during the timeframes covered under previous reports but were not included in those data sets at the time.

**Table 1: Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs**

| Current Reporting Period |                                      |       |        |                                     |      |      |
|--------------------------|--------------------------------------|-------|--------|-------------------------------------|------|------|
| Year                     | Emissions Reduced<br>(tons per year) |       |        | Emissions Reduced<br>(tons per day) |      |      |
|                          | NOx                                  | PM    | ROG    | NOx                                 | PM   | ROG  |
| 2009                     | 0.00                                 | 0.00  | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2010                     | 0.00                                 | 0.00  | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2011                     | 0.00                                 | 0.00  | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2012                     | 0.00                                 | 0.00  | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2013                     | 0.00                                 | 0.00  | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2014                     | 0.00                                 | 0.00  | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2015                     | 0.00                                 | 0.00  | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2016                     | 0.00                                 | 0.00  | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2017                     | 0.00                                 | 0.00  | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2018                     | 2.49                                 | 0.22  | 0.35   | 0.01                                | 0.00 | 0.00 |
| 2019                     | 82.08                                | 6.04  | 9.42   | 0.22                                | 0.02 | 0.03 |
| 2020                     | 974.35                               | 64.76 | 102.59 | 2.67                                | 0.18 | 0.28 |
| 2021                     | 1015.56                              | 67.63 | 107.31 | 2.78                                | 0.19 | 0.29 |
| 2022                     | 1013.37                              | 67.56 | 107.14 | 2.78                                | 0.19 | 0.29 |
| 2023                     | 996.92                               | 66.89 | 105.77 | 2.73                                | 0.18 | 0.29 |
| 2024                     | 996.27                               | 66.89 | 105.76 | 2.73                                | 0.18 | 0.29 |
| 2025                     | 981.03                               | 66.51 | 104.91 | 2.69                                | 0.18 | 0.29 |
| 2026                     | 981.03                               | 66.51 | 104.91 | 2.69                                | 0.18 | 0.29 |
| 2027                     | 969.66                               | 65.72 | 103.64 | 2.66                                | 0.18 | 0.28 |
| 2028                     | 967.16                               | 65.49 | 103.29 | 2.65                                | 0.18 | 0.28 |
| 2029                     | 891.45                               | 59.78 | 94.47  | 2.44                                | 0.16 | 0.26 |
| 2030                     | 45.28                                | 3.02  | 4.71   | 0.12                                | 0.01 | 0.01 |
| 2031                     | 4.21                                 | 0.16  | 0.00   | 0.01                                | 0.00 | 0.00 |

Table 2 summarizes the cumulative total SIP-creditable incentive-based emission reductions generated through incentive programs, expressed in tons per year and tons per day, claimed in the 2013 -2021 Annual Demonstration Reports.

**Table 2: Cumulative Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs**

| Cumulative Reporting Period |                                      |        |        |                                     |      |      |
|-----------------------------|--------------------------------------|--------|--------|-------------------------------------|------|------|
| Year                        | Emissions Reduced<br>(tons per year) |        |        | Emissions Reduced<br>(tons per day) |      |      |
|                             | NOx                                  | PM     | ROG    | NOx                                 | PM   | ROG  |
| 2009                        | 1098.99                              | 35.78  | 116.17 | 3.01                                | 0.10 | 0.32 |
| 2010                        | 2655.71                              | 82.02  | 237.29 | 7.28                                | 0.22 | 0.65 |
| 2011                        | 4112.25                              | 141.11 | 364.96 | 11.27                               | 0.39 | 1.00 |
| 2012                        | 5804.68                              | 210.38 | 477.51 | 15.90                               | 0.58 | 1.31 |
| 2013                        | 6699.86                              | 248.37 | 572.27 | 18.36                               | 0.68 | 1.57 |
| 2014                        | 6494.06                              | 243.85 | 564.13 | 17.79                               | 0.67 | 1.55 |
| 2015                        | 6528.68                              | 252.86 | 620.84 | 17.89                               | 0.69 | 1.70 |
| 2016                        | 6491.76                              | 256.09 | 673.48 | 17.79                               | 0.70 | 1.85 |
| 2017                        | 6142.10                              | 250.86 | 719.09 | 16.83                               | 0.69 | 1.97 |
| 2018                        | 6689.96                              | 288.29 | 784.01 | 18.33                               | 0.79 | 2.15 |
| 2019                        | 7038.71                              | 339.65 | 850.61 | 19.28                               | 0.93 | 2.33 |
| 2020                        | 7122.99                              | 377.45 | 859.10 | 19.52                               | 1.03 | 2.35 |
| 2021                        | 6352.38                              | 348.06 | 755.03 | 17.40                               | 0.95 | 2.07 |
| 2022                        | 5622.99                              | 314.69 | 653.73 | 15.41                               | 0.86 | 1.79 |
| 2023                        | 4976.10                              | 286.83 | 571.26 | 13.63                               | 0.79 | 1.57 |
| 2024                        | 4360.32                              | 259.84 | 469.27 | 11.95                               | 0.71 | 1.29 |
| 2025                        | 3736.71                              | 232.41 | 392.41 | 10.24                               | 0.64 | 1.08 |
| 2026                        | 3307.48                              | 208.62 | 342.53 | 9.06                                | 0.57 | 0.94 |
| 2027                        | 2697.49                              | 176.72 | 277.26 | 7.39                                | 0.48 | 0.76 |
| 2028                        | 2012.44                              | 132.71 | 206.35 | 5.51                                | 0.36 | 0.57 |
| 2029                        | 1083.43                              | 70.46  | 108.70 | 2.97                                | 0.19 | 0.30 |
| 2030                        | 129.36                               | 6.48   | 7.74   | 0.35                                | 0.02 | 0.02 |
| 2031                        | 88.30                                | 3.62   | 3.04   | 0.24                                | 0.01 | 0.01 |

## I. ANNUAL DEMONSTRATION REPORT ELEMENTS

This District-prepared report will demonstrate the quantity of emission reductions achieved through SIP-creditable incentive programs. District Rule 9610 has several requirements to demonstrate that the claimed incentive-based emission reductions are SIP-creditable. Section 4.0 of Rule 9610 presents the elements that this 2021 Annual Demonstration Report must include, which are summarized in Table 3 below.

**Table 3: Annual Demonstration Report Requirements**

| Element   | Where satisfied   |
|---|---|
| Description of guidelines used, how the guidelines ensure that the claimed emission reductions are SIP-creditable, and a list of any procedures being used for the first time under the rule  | Section II of this report   |
| Quantification of emission reductions generated through incentive programs, summarized by pollutant and by years and including: <ul style="list-style-type: none"> <li>• Cost-effectiveness</li> <li>• Funding amount</li> <li>• Incentive program guideline</li> <li>• Project type</li> </ul>   | Section VI of this report   |
| Adjustments to reductions claimed in prior annual demonstration reports   | NA  |
| Identification of SIP commitments in District adopted SIP(s) which the District has satisfied in whole or in part through Rule 9610, including identification and quantification of, and remedies for, any shortfalls   | Section III of this report  |
| Project information, including the following, as applicable: <ul style="list-style-type: none"> <li>• Project identification number</li> <li>• Project location</li> <li>• Project type</li> <li>• Project life</li> <li>• Implementation date</li> <li>• Funding provided by the District, NRCS, or CARB</li> <li>• Guidelines used</li> <li>• Quantified emission reductions per year, and aggregated over the project life, by pollutant</li> <li>• Description of baseline and new equipment</li> <li>• Additional details as needed</li> </ul> | Appendices A and B of this report, Manual of Procedures, and Annual Demonstration Report Data Sheet |
| Summary of monitoring and enforcement activities for the reporting period for incentive programs for which SIP-creditable emission reductions are being claimed, including: <ul style="list-style-type: none"> <li>• Identification of project audits, usage reports, inspections, and other monitoring activities</li> <li>• List of projects that do not satisfy contractual requirements and associated enforcement actions/remedies</li> </ul>  | Section IV of this report   |
| Incentive Program Evaluation: retrospective assessment of the incentive program performance and recommendations, if any, for future enhancements  | Section V of this report  |

### Annual Demonstration Report Process

The Draft Annual Demonstration Report is released to the public for review and comment. Upon close of the comment period all comments received are addressed accordingly. The APCO then presents the Draft Annual Demonstration Report to the District Governing Board for review followed by submittal to CARB and EPA for concurrence prior to the August 31 deadline of each year. The public has an additional opportunity to comment on the draft report at the Governing Board public hearing. All previous versions of the Annual Demonstration Report, the Rule and the Manual of Procedures are available on the District's website.

### Recordkeeping Requirements

Section 6.0 of Rule 9610 requires all documents created and/or used in implementing the requirements of Section 4.0 shall be kept and maintained as required by the applicable incentive program guidelines. Consistent with the California Public Records Act and other related requirements, such records shall be made available for public review. The public may request records through the District's Public Records Release Request, available on the District website at:

[http://www.valleyair.org/General\\_info/public\\_records\\_release\\_request.htm](http://www.valleyair.org/General_info/public_records_release_request.htm). However, the records related to implementation of the USDA NRCS Combustion Systems Improvement of Mobile Engines incentive program are prohibited from mandatory disclosure pursuant to the Food, Conservation, and Energy Act of 2008 (7 U.S.C. § 8791).

This section intentionally blank.

## II. INCENTIVE PROGRAM GUIDELINES

### A. SIP-Creditable Incentive Program Guidelines

Pursuant to Section 4.1 of Rule 9610, the annual demonstration report shall contain a list of any incentive program guidelines that are being used to claim SIP credit under this rule.

This year the District is also utilizing projects under the Funding Agricultural Replacement Measures for Emission Reductions (FARMER) program guidelines.

Section 3.1 of Rule 9610 identifies pre-approved incentive program guidelines from which the District can claim credit for incentive-based emission reductions. These guidelines include:

- CARB Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) Guidelines for incentive projects funded by either the Carl Moyer Program or non-Carl Moyer funding sources, for the project types listed in Table 4.

**Table 4: Carl Moyer Program Project Types by Component**

|   |                                    | 2005<br>Guidelines<br>(approved<br>11/17/2005) | 2008<br>Guidelines<br>(approved<br>3/27/2008) | 2011<br>Guidelines<br>(approved<br>4/28/2011) | 2017<br>Guidelines<br>(approved<br>4/27/2017) |
|---|------------------------------------|--|---|---|---|
| Component   | Component<br>Option                | Chapter  | Chapter                                       | Chapter                                       | Chapter                                       |
| On-Road Heavy-Duty<br>Vehicle (On-Road)                           | New Vehicle<br>Purchase            | 1  | 3   | 4   | 4   |
|   | Repower                            | 1  | 3   | 4   | 4   |
|   | Retrofit                           | 1  | 3   | 4   | n/a   |
| On-Road Heavy-Duty<br>Vehicles (On-Road)                          | Fleet Modernization<br>Replacement | 2  | 4   | 5   | n/a   |
| Off-Road<br>Compression-Ignition<br>Equipment<br>(Off-Road)       | Vehicle<br>Replacement             | n/a  | 7   | 9   | 5   |
|   | Engine Repower                     | 5  | 5   | 7   | 5   |
|   | Engine Retrofit                    | 5  | 5   | 7   | 5   |
| Portable and<br>Stationary Agricultural<br>Sources<br>(Ag Engine) | Repower                            | 10   | 10  | 10  | 5   |
|   | New Purchase                       | 10   | 10  | 10  | n/a   |
|   | Engine Retrofit                    | 10   | 10  | 10  | 5   |



- CARB Proposition 1B Goods Movement Emission Reduction Program (Proposition 1B) Guidelines for Heavy-Duty Diesel Trucks, for the project types listed in table 5.

**Table 5: Proposition 1B Program Project Types by Component**

| Component          | Component Option                  | 2008 Guidelines (approved 02/28/2008) | 2010 Guidelines (approved 03/25/2010) | 2013 Guidelines (approved 01/25/2013) | 2015 Guidelines (approved 6/25/2015) |
|--------------------|-----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|
|                    |                                   | Appendix                              | Appendix                              | Appendix                              | Appendix                             |
| On-Road Prop 1B    | Repower                           | A                                     | A                                     | A                                     | A                                    |
|                    | Replacement (Vehicle Replacement) | A                                     | A                                     | A                                     | A                                    |
|                    | PM retrofit                       | A                                     | A                                     | A                                     | n/a                                  |
|                    | PM + NOx Retrofit                 | A                                     | A                                     | A                                     | n/a                                  |
| Locomotive Prop 1B | Locomotive Replacement            | -                                     | -                                     | -                                     | B                                    |

- NRCS Conservation Practice Standard 372 - Combustion System Improvement (approved September 2010); Conservation Practice Standard 723 – Combustion System Air Emission Management (approved May 2009); NRCS General Manual, Title 450, Part 401 – Conservation Practice Standards (approved October 18, 2009); NRCS General Manual, Title 450, Part 407 – Documentation, Certification, and Spot Checking (approved October 17, 2009); Conservation Practice Standard 372 Specification (approved September 2010); NRCS Interim Conservation Practice Standard 723 – Combustion System Air Emission management (approved May 2009); and associated NRCS Program Combustion System Improvement of Mobile Engines Guidelines for incentive projects funded by EQIP funds and accompanying calculation, emission factors, and destruction certification worksheets.

This section intentionally blank.

- Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program Guidelines for incentive projects funded by the FARMER sources, for the project types listed in Table 6.

**Table 6: FARMER Program Project Types by Component**

| Component   | Component Option                  | 2018 Guidelines (approved 3/23/2018) |
|---|-----------------------------------|--------------------------------------|
|   |                                   | Chapter                              |
| Ag UTV  | Replacement (Vehicle Replacement) | 3.2.2                                |
| On-Road Heavy-Duty Vehicle (On-Road)                              | Ag Truck Replacement              | 3.2.1                                |
| Off-Road Compression-Ignition Equipment (Off-Road Cotton Pickers) | Ag Vehicle Replacement 2 for 1    | 3.2.1                                |

The summaries of SIP-creditable incentive-based emission reductions claimed under Section 3.1 of Rule 9610 are included in Section VI of this annual demonstration report, and the detailed information for each project is presented in the Annual Demonstration Report Data Sheet that accompanies this report. To identify the specific guideline reference applicable to an individual project in the data sheet, reference the “Applicable Guideline”, “Component” and “Component Option” fields from the data sheet to the corresponding list of pre-approved guidelines identified in the tables above.

**B. Description of SIP-Creditable Program Guidelines**

Sections B(1) through B(4) below describe the specific incentive program guidelines identified in Rule 9610 that were used to reduce emissions and calculate the emission reductions included in this annual demonstration report. These guidelines are developed and periodically revised through a public process with opportunity for public review and commenting. In cases where more than one version of an incentive program guideline was used for a given incentive project, the specific version is identified and included within the detailed project information provided in the Annual Demonstration Report Data Sheet.

## **1. CARB Carl Moyer Memorial Air Quality Standards Attainment Program Guidelines**

The Carl Moyer Program is a grant program that funds the incremental cost of cleaner-than-required engines and equipment. Adopted in 1999 by CARB, this program was created through a public process and provides incentives to help obtain early or extra emission reductions, especially from emission sources in environmental justice communities and areas disproportionately impacted by air pollution with a primary objective of obtaining cost-effective and surplus emission reductions.

The Carl Moyer Program has been successfully implemented through the cooperative efforts of CARB and air districts in California. As directed by the California Health and Safety Code, CARB's role is to oversee the Carl Moyer Program by managing program funds, developing and maintaining guidelines, and determining cost-effectiveness methodologies. Air districts use the Carl Moyer Program Guidelines to select, fund, and monitor projects in their jurisdiction by providing grants to public and private entities.

The Carl Moyer Program guidelines include robust administrative requirements to ensure that emission reductions are enforceable and are achieved throughout the life of a project. The District has used the Carl Moyer Program Guidelines to develop the practices that are currently in place to ensure all EPA integrity principles of Surplus, Quantifiable, Enforceable, and Permanent are met. The following is a summary of how the Carl Moyer Program Guidelines meet each SIP-credibility criterion:

### **Surplus**

The Carl Moyer Program Guidelines ensure that projects are surplus to regulations by only allowing projects to be selected that are not required by any federal, state, or local regulation, memorandum of agreement/understanding with a regulatory agency, settlement agreement, mitigation requirement, or other legal mandate. For example, the guidelines have accounted for each adopted regulation to determine the compliance dates of any affected engines and emission benefits claimed by each regulation have been determined. Minimum project lives are established in each component to ensure that the program does not fund actions taken to comply with regulatory deadlines. The minimum project life requirement also ensures the overall cost effectiveness of the program and that the emission reductions are real for the life of the project.

In some cases, a split project life methodology is utilized to properly account for all possible emission reductions while still ensuring that the emission reductions being claimed are surplus. In the case of split project life calculations, the first calculation captures the surplus between the baseline (tier 1 or tier 2) technology and a new tier 4 for the length of time until the rule compliance deadline. The second calculation captures the surplus from tier 4 (compliance requirement baseline) to electric for the remainder of the project life. Projects that are subject to the split life calculation methodology typically have a total project life of ten (10) years.

The District has utilized a split project life for tier 1 and tier 2 diesel agricultural irrigation pumps being replaced with new electric motors. These diesel engines are required by the District's Rule 4702 to upgrade to a tier 4 diesel engine by 12/31/2013. The project life is split between the surplus time for Rule 4702 (baseline to tier 4) and the remainder of the allowable 10 years for the reduced technology to the electric motor (tier 4 to electric).

The summary below provides more detail about how the 2017 Carl Moyer Program Guidelines ensure that the SIP-credibility integrity principle of "Surplus" is fulfilled:

- *Requirement that emission reductions generated by incentive programs are not required by other regulation*
  - (2011 Moyer Guidelines Chapter 2, Project Criteria A, H, I, MM)
  - (2017 Moyer Guidelines, Chapter 2, Project Criteria A, B, C, D, G, K).
- *Protocols for quantifying maximum project life and maximum emission reductions which account for upcoming regulatory deadlines for a given source category*
  - (2011 Moyer Guidelines Chapter 2, Project Criteria B, I and MM)
  - (2017 Moyer Guidelines Chapter 2, Project Criteria B, C, D).
- *Assurance that baseline equipment was in use*
  - (2011 Moyer Guidelines Chapter 3, Section Z.6(B) and AA.2.)
  - (2017 Moyer Guidelines, Chapter 3, Section V.6(B) and W.2.)
- *Assurance that new/upgraded equipment is not already accounted for in future-year inventories underlying a SIP attainment demonstration by natural fleet turnover, finite equipment life or incentives*
  - The definition of surplus in the Moyer guidelines requires that the emission reductions achieved are above and beyond those required under existing regulations that are incorporated into a SIP. As part of the SIP development process, CARB reviews the Moyer project mix to ensure that the amount of emission reductions credited to the program are not included in the future year inventories specific to each individual attainment demonstration.
- *Procedures that ensure that old equipment was used in the geographic area of interest*
  - (2011 Moyer Guidelines, Chapter 2, Section S and Chapter 3, Section Z.6.(B))
  - (2017 Moyer Guidelines, Chapter 2, Section S and Chapter 3 Section T.3 and V.6(B)).

### **Quantifiable**

The District evaluates the potential emission reductions that would be achieved by replacing the old equipment with the new equipment using the established calculation methodologies and emissions factors in the program guidelines. The calculation methodology, including calculation formulas, assumptions, emission factors and sample calculations are part of the Carl Moyer Program Guidelines and have been approved through a public process. To ensure that real, quantifiable

emission reductions are achieved over the life of a project, the program guidelines require that emission control technologies be certified or verified by CARB (certification or verification by the EPA or International Maritime Organization may be allowed for some source categories for which CARB does not have a certification or verification program). The summary below provides more detail about how the 2017 Carl Moyer Program Guidelines ensure that the SIP-credibility integrity principle of “Quantifiable” is fulfilled:

- *Emissions data needed to calculate emission reductions must be publicly available, current, and accurate. This should include appropriate emission factors, load factors, and other conversion factors.*
  - 2011 Moyer Guidelines, Appendix D (Publicly Available) and Chapter 1, Section E.7 (Allows CARB Executive Officer to modify the Guidelines under a public process, to keep them effective and up-to-date.)
  - 2017 Moyer Guidelines, Appendix D (Publicly Available) and Chapter 1, (Guidelines modified under a public process, to keep them effective and up-to-date.)
- *Guidelines include necessary formulas and instructions to calculate emission reductions based on above data, and explicit instructions to ensure appropriate data are used in calculations*
  - 2011 and 2017 Moyer Guidelines, Appendix C (contains formulas and instructions)
  - 2011 and 2017 Moyer Guidelines, Supplemental document, “Sample Calculations” (contains formulas and instructions)
  - 2011 Moyer Guidelines, Appendix C, Section B.5, and Supplemental document, “Sample Calculations” (contains explicit instructions regarding inputs)
  - 2017 Moyer Guidelines, Appendix C, Section B.1(b), and Supplemental document, “Sample Calculations” (contains explicit instructions regarding inputs)
- *Requirement to provide activity data sufficient to determine actual emission reductions*
  - 2011 Moyer Guidelines, Chapter 3, Section Z.6.(B)
  - 2017 Moyer Guidelines, Chapter 3, Section V.6.
- *Requirement to demonstrate the percentage of emission reductions that occur in the geographic area of interest, and that emission reductions are therefore SIP creditable*
  - 2011 Moyer Guidelines, Chapter 2, Section S and Chapter 3, Section Z.6.(B)
  - 2017 Moyer Guidelines, Chapter 2, Section S
- *Requirement to periodically audit completed projects to verify emission reduction projections are fulfilled*
  - 2011 Moyer Guidelines Chapter 3, Sections Z.10 and EE.
  - 2017 Moyer Guidelines Chapter 3, Section V.10 and AA.

**Enforceable**

Emission reductions and other required actions are enforceable if: they are independently verifiable; program violations and those liable are defined; information needed to determine emission reductions is available to the public; and they are practicably enforceable in accordance with other EPA guidance on practicable enforceability. The summary below provides more detail about how the 2017 Carl Moyer Program Guidelines ensure that the SIP-credibility integrity principle of “Enforceable” is fulfilled:

- *Require Grantees to provide all necessary recordkeeping and reporting needed to verify emission reductions*
  - 2011 Moyer Guidelines, Chapter 3, Section Z.9 and DD
  - 2017 Moyer Guidelines, Chapter 3, Section V.9 and Z
- *Require inspections to ensure incentive program information is consistent with actual operating equipment*
  - Moyer Guidelines Chapter 3, Sections AA and BB.
- *Identify liable parties and liability associated with contract noncompliance*
  - Moyer Guidelines Chapter 3, Section Z.11.

**Permanent**

To ensure that the SIP-creditable emission reductions are permanent, actions such as pre-inspections and post-inspections of the new equipment and verification that the baseline equipment has been destroyed through the required process as described in the program guidelines are performed. The summary below provides more detail about how the 2017 Carl Moyer Program Guidelines ensure that the SIP-credibility integrity principle of “Permanent” is fulfilled:

- *Data needed to determine and track location of activity*
  - 2011 Moyer Guidelines, Chapter 3, Section DD
  - 2017 Moyer Guidelines, Chapter 3, Section Z
- *Provisions for ensuring that the project was completed, including the verification of disposition of baseline equipment.*
  - 2011 Moyer Guidelines Chapter 3, Sections AA and BB
  - 2017 Moyer Guidelines Chapter 3, Sections W and X

A summary of emission reductions achieved through the use of the Carl Moyer Program Guidelines is included in Section VII of this report. The complete Carl Moyer Program Guidelines can be found online at: [www.arb.ca.gov/msprog/moyer/guidelines/current.htm](http://www.arb.ca.gov/msprog/moyer/guidelines/current.htm).

**2. CARB Proposition 1B: Goods Movement Emission Reduction Program Guidelines**

In November 2006, California voters approved Proposition 1B authorizing \$1 billion in bond funding to reduce air pollution associated with the movement of freight along California’s major trade corridors. Subsequent implementing legislation established standards and procedures for the expenditure of these funds. Governor

Schwarzenegger's Executive Order S-02-07 provides further direction to ensure accountability and transparency in administering bond-funded programs.

CARB developed the *Proposition 1B: Goods Movement Emission Reduction Program Guidelines for Implementation* (Proposition 1B Guidelines), through a public process in consultation with stakeholders, including: air districts, metropolitan planning organizations, port authorities, shipping lines, railroad companies, trucking companies, harbor craft owners, freight distributors, terminal operators, local port community advisory groups, community interest groups, and airports. The Proposition 1B Guidelines ensure that the District funds qualifying projects that achieve the following results:

- Reduce emissions and health risks;
- Incorporate simplicity and efficiency;
- Ensure cost effectiveness;
- Leverage other funding sources; and
- Provide transparency and accountability.

CARB, under direction from Executive Order S-02-07, established transparency and accountability measures for administering the bond funding. CARB has made all program materials including, but not limited to; guidelines, Board Resolutions, Notice of Funding Availability, summary tables, recommendations for funding, materials from public workshops, and completed applications submitted by local and state agencies available on their website.

The program is designed to supplement CARB's diesel regulations by funding early compliance or providing extra emission reductions beyond those required by current rules. The guidelines include robust administrative requirements to ensure that emission reductions are enforceable and are achieved throughout the life of a project. The District has used the Proposition 1B Guidelines to develop the practices that are currently in place to ensure all EPA integrity principles are met. The following is a summary of how the Proposition 1B Guidelines meet each SIP-credibility criterion:

### **Surplus**

The Carl Moyer Program Guidelines ensure that projects are surplus to regulations by only allowing projects to be selected that are not required by any federal, state, or local regulation, memorandum of agreement/understanding with a regulatory agency, settlement agreement, mitigation requirement, or other legal mandate. For example, the guidelines have accounted for each adopted regulation to determine the compliance dates of any affected engines and emission benefits claimed by each regulation have been determined. Minimum project lives are established in each component to ensure that the program does not fund actions taken to comply with regulatory deadlines. The minimum project life requirement also ensures the overall cost effectiveness of the program and that the emission reductions are real for the life of the project.

**Quantifiable**

The District evaluates the potential reductions that would be achieved by replacing the old equipment with the new equipment using the Project Benefits Calculator created by CARB. The calculator is available to the public on CARB's website at <http://www.arb.ca.gov/bonds/gmbond/gmbond.htm> and is updated by CARB on a regular basis. Chapter 2 Section C discusses Proposition 1B program emission reduction calculations.

**Enforceable**

The District has created enforceable contracts, based on requirements in the Proposition 1B Program Guidelines, which are signed by both District management and the Grantee to ensure that projects are fully accomplished and the integrity principles are met. The legally binding contracts include, but are not limited to, usage reporting requirements for the Grantee, operating location requirements for the new vehicle, the destruction requirements of the baseline equipment/engine, and an allowance for the District to conduct an audit of the project at any time during the project life. Chapter 4 Section A and Appendix A of Proposition 1B Program guidelines details contract requirements for truck projects.

**Permanent**

To ensure that the SIP-creditable emission reductions are permanent, actions such as post-inspections of the new equipment and verification that the baseline equipment has been destroyed through the required process as described in the program guidelines are performed. Chapter 4 Section A of the Proposition 1B program discusses scrap and post inspection requirements.

A summary of emission reductions achieved through the use of the Proposition 1B Program Guidelines is included in Section VI of this report. The complete Proposition 1B Program Guidelines can be found online at:

<http://www.arb.ca.gov/bonds/gmbond/gmbond.htm>.

**3. FARMER Program Guidelines**

The FARMER Program is a grant program that funds the incremental cost of cleaner-than-required engines and equipment. In September 2017, Assembly Bill (AB) 134 (Committee on Budget, Chapter 254, Statutes of 2017) and AB 109 (Ting, Chapter 249, Statutes of 2017) appropriated \$135 million from the State Budget for Fiscal Year (FY) 2017-18 to the California Air Resources Board (CARB or Board) for the reduction of criteria, toxic, and greenhouse gas (GHG) emissions from the agricultural sector. CARB staff developed these proposed *Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program Guidelines* (Guidelines) to cover the three related sources of funding included in AB 134 and AB 109.

The FARMER Program has been successfully implemented through the cooperative efforts of CARB and air districts in California. As directed by the California Health and Safety Code, CARB's role is to oversee the FARMER Program by managing program funds, developing and maintaining guidelines, and determining cost-effectiveness



methodologies. Air districts use the FARMER Program Guidelines to select, fund, and monitor projects in their jurisdiction by providing grants to public and private entities.

The FARMER Program guidelines include robust administrative requirements to ensure that emission reductions are enforceable and are achieved throughout the life of a project. The District has used the FARMER Program Guidelines to develop the practices that are currently in place to ensure all EPA integrity principles of Surplus, Quantifiable, Enforceable, and Permanent are met. The following is a summary of how the FARMER Program Guidelines meet each SIP-credibility criterion:

### **Surplus**

The FARMER Guidelines ensure that projects are surplus to regulations by only allowing projects to be selected that are not required by any federal, state, or local regulation, memorandum of agreement/understanding with a regulatory agency, settlement agreement, mitigation requirement, or other legal mandate. All calculated emissions are in excess of the baseline emission inventory, attainment year, and progress milestone year forecasts that include adopted regulations. Minimum project lives are established in each component's guidelines to ensure that the program does not fund actions taken to comply with regulatory deadlines. The minimum project life requirement also ensures that the emission reductions are real for the life of the project.

### **Quantifiable**

The District evaluates the potential emission reductions that would be achieved by replacing the old equipment with the new equipment using the established calculation methodologies and emissions factors in the program guidelines. The calculation methodology, including calculation formulas, assumptions, emission factors and sample calculations are part of the current Carl Moyer or FARMER Program Guidelines and have been approved through a public process. To ensure that real, quantifiable emission reductions are achieved over the life of a project, the program guidelines require that emission control technologies be certified or verified by CARB (certification or verification by the EPA) or be verified to emit zero tailpipe emissions. The summary below provides more detail about how the 2018 FARMER Guidelines ensure that the SIP-credibility integrity principle of "Quantifiable" is fulfilled:

- The District has created enforceable contracts/vouchers, based on requirements in the FARMER Guidelines, which are signed by both District management and the Grantee to ensure that projects are fully accomplished and the integrity principles are met. The legally binding contracts/vouchers include, but are not limited to, usage reporting requirements for the Grantee, operating location requirements for the new vehicle, the destruction requirements of the baseline equipment/engine, and an allowance for the District to conduct an audit of the project at any time during the project life.

### **Enforceable**

Enforceable means emission reductions are enforceable if the incentive program guidelines include provisions for ensuring the following:

- The emission reductions are independently and practicably verifiable through reporting, inspections, monitoring, and other mechanisms;
- Incentive program requirements are defined through legally binding contracts, including identifying the party or parties responsible for ensuring that emission reductions are achieved;
- Funding recipients are obligated to provide all records needed to demonstrate that emission reductions are achieved; and
- The air district provides public access to all emissions-related information for reductions claimed.

### **Permanent**

To ensure that the SIP-creditable emission reductions are permanent, actions such as post-inspections of the new equipment and verification that the baseline equipment has been destroyed through the required process as described in the program guidelines are performed.

## **4. USDA NRCS Combustion Systems Improvement of Mobile Engines Incentive Program Guidelines**

Under the Food Conservation and Energy Act of 2008, the USDA Secretary provides eligible producers with program support to address serious air quality concerns from agricultural operations and help meet regulatory requirements through the Environmental Quality Incentives Program (EQIP). The National Air Quality Initiative (NAQI, once referred to as "CIG-b") is a voluntary incentive program with the primary goal to achieve and maintain the health-based National Ambient Air Quality Standards (NAAQS) within designated non-attainment areas of California. Financial assistance is targeted to counties that have been identified as having significant air quality resource concerns by being designated as non-attainment for Ozone and/or Particulate Matter (PM10 / PM2.5). These areas experience air pollution levels that persistently exceed the NAAQS established by the CAA.

<http://www.nrcs.usda.gov/wps/portal/nrcs/detail/ca/programs/financial/eqip/?cid=stelprdb1247012>

Given its experience in running similar incentive programs, the District provided assistance to NRCS in developing this new program. Through this program, NRCS provides incentive funds to assist farmers in replacing diesel powered agricultural equipment with the goal of ensuring the resulting emission reductions meet the SIP-credibility criteria of being surplus, quantifiable, enforceable, and permanent. Eligible participants are owners of land in agricultural or forest production or persons who are

engaged in livestock, agriculture, or forest production on eligible land and that have a natural resource concern on the land.

Applications are accepted on a continuous basis with periodic application ranking cut-offs. The NRCS has specific expertise regarding agricultural practices and operations and works closely with agricultural stakeholders in reviewing applications for eligibility. Applications are ranked for funding based upon ranking criteria developed with input from Local Work Groups, Stakeholders, and the State Technical Advisory Committee (STAC). The ranking score of a project is based on multiple factors including but not limited to:

- Whether or not the project location is in an area that has an EPA NAAQS non-attainment designation for PM<sub>2.5</sub>, PM<sub>10</sub>, and/or Ozone and what type of designation that area has (for example “extreme” nonattainment).
- If there are currently any local or state agriculturally based air emission regulatory requirements for the area that the project is located.
- The emission level of the baseline equipment/engine and the emission factors of the new/replacement equipment/engine.
- The amount of NO<sub>x</sub>, ROG, and PM that is projected to be reduced by funding the project.

The ranking criteria ensure that the projects with the greatest amount of reductions, resulting in the highest air quality benefit will be selected for funding.

NRCS has created robust administrative requirements based on those in the Carl Moyer Program Guidelines to ensure that emission reductions are enforceable, are achieved throughout the life of a project, and ensure all EPA integrity principles are met. These requirements are contained in Conservation Practice Standard (CPS) 372 – Combustion System Improvement and associated specifications and procedures. The following is a summary of how the NRCS Guidelines meet each SIP-credibility criterion:

### **Surplus**

Under the NAQI, page 3 of the CA-NRCS program guidelines specifies that SIP creditable emission reductions are “achieved from contracts or parts of contracts funded under the air quality initiative [that] are not required by any federal, state, or local regulation, settlement agreement, mitigation requirement, or other legal mandate.” A rule or regulation does not currently exist for off-road mobile agricultural equipment, so the emission reductions resulting from replacing existing mobile off-road agricultural engines funded under the NAQI per CPS 372-Combustion Systems Improvement are surplus. The National Air Quality Initiative Programs Description is posted on-line at:

<http://www.nrcs.usda.gov/wps/portal/nrcs/detail/ca/programs/financial/eqip/?cid=stelprdb1247003>.

The 2012 CA-NRCS program guidelines are posted on-line at:

[http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs144p2\\_063865.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs144p2_063865.pdf)

**Quantifiable**

The District provided technical assistance to CA-NRCS in developing their calculation methodologies. The methodologies from the Carl Moyer Program are the basis for components included in CPS-372 and its supporting documents for the NAQI, including the CA-NRCS program guidelines. The District provided technical assistance to CA-NRCS in developing their calculation methodologies, which are consistent with the Carl Moyer Program. The NRCS Field Office Technical Guide places a ten-year lifespan for projects implemented under CPS 372 – Combustion System Improvement, which is also consistent with the Carl Moyer program. A conservation practice lifespan is the minimum time (in years) the implemented practice is expected to be fully functional for its intended purpose (NRCS General Manual, Title 450, Part 401.15)

<http://directives.sc.egov.usda.gov/viewerFS.aspx?hid=19430>. A list of California NRCS practice standard life-spans are posted on-line at:

[https://efotg.sc.egov.usda.gov/references/public/CA/Section-IV-Practice-List-Lifespan\\_03-18.xlsx](https://efotg.sc.egov.usda.gov/references/public/CA/Section-IV-Practice-List-Lifespan_03-18.xlsx).

The emission reductions for each project, including projects with multiple old units for one new unit, are calculated using the methodologies outlined in the Carl Moyer Guidelines. All equipment engines are cross-referenced against a CARB executive order that verifies the emission of every equipment engine. The NRCS calculation worksheets and emission factors are posted on-line at:

[https://efotg.sc.egov.usda.gov/references/public/CA/TN-AQ-04\\_CPS-372\\_Estimating\\_Emissions-SIP\\_Reporting.pdf](https://efotg.sc.egov.usda.gov/references/public/CA/TN-AQ-04_CPS-372_Estimating_Emissions-SIP_Reporting.pdf)

**Enforceable**

The NRCS inspects equipment in proposals prior to contract development to verify the existing mobile off-road agricultural equipment is operational per CPS-372 specifications. Destruction of existing equipment is certified by the disposal operator and participant and date-stamped photos are provided. The Destruction Certification worksheet is posted on-line at:

[https://efotg.sc.egov.usda.gov/references/public/CA/CA\\_Destruction\\_Certification\\_Worksheet.docx](https://efotg.sc.egov.usda.gov/references/public/CA/CA_Destruction_Certification_Worksheet.docx)

On an annual basis NRCS reviews at least 5% of all active projects. From these project reviews NRCS verifies that the new equipment is still operational.

<http://directives.sc.egov.usda.gov/RollupViewer.aspx?hid=25728>.

Per Subpart C, 512.22, participants have control of the land for the length of the proposed contract through deed, lease, or other written authorization. If the applicant does not own the land, the landowner must give written consent to install, operate, and maintain the practice through the lifespan of the practice. This is conducted through a partnership with the USDA Farm Service Agency, who is responsible for program eligibility support.

Subpart F covers Contract Administration and provides for recovering liquidated damages for certain deviations to a contract. Handling contract violations is addressed in Subpart H where violations of contract terms must be corrected by

the participant within a reasonable period of time to comply. If the violation continues, the contract may be terminated and future program participation deferred.

**Permanent**

NRCS eligibility is based on the county that the tractor resides in; in this case, the tractor has to reside within one of the eight counties of the San Joaquin Valley. Under the NAQI, the NRCS prioritizes applications based on a county's non-attainment designation within California. Applications received from attainment areas are not eligible. Currently, only the emission reductions originating from within the eight San Joaquin Valley counties are seeking SIP credit under this proposal. The destruction of the existing mobile off-road engines and equipment are verified per CPS 372 specifications, posted on-line at: <https://efotg.sc.egov.usda.gov/references/public/CA/372-CA-PS-11-2018.docx> Destruction certification worksheets are posted on-line at: [https://efotg.sc.egov.usda.gov/references/public/CA/CA\\_Destruction\\_Certification\\_Worksheet.docx](https://efotg.sc.egov.usda.gov/references/public/CA/CA_Destruction_Certification_Worksheet.docx). The NRCS also has a stipulation that the tractor has to be tied to the land where it is in use. This requires that the tractor be used 100% of the time in the San Joaquin Valley. Under the NAQI, NRCS staff verifies by site visit the operational condition of the existing mobile off-road agricultural equipment. Destruction of the existing equipment and emissions certification verifications are performed to determine contract compliance.

The Combustion Systems Improvement of Mobile Engines incentive program is unique from other incentive programs in that NRCS is explicitly prohibited from identifying Grantees by name under the Food, Conservation, and Energy Act of 2008 (7 U.S.C. § 8791). NRCS must maintain the confidentiality of information provided by an agricultural producer participating in the NRCS Combustion Systems Improvement of Mobile Engines incentive program. The information is exempt from mandatory disclosure and may not be used in judicial or administrative proceedings without the consent of the person involved. However, in March 2014, NRCS, EPA, the District and CARB signed the "Addendum to the December 2010 Statement of Principles Regarding the Approach to State Implementation Plan Creditability of Agricultural Equipment Replacement Incentive Programs Implemented by the USDA NRCS and the San Joaquin Valley Air Pollution Control District" (Addendum). The purpose of this Addendum is to identify information that NRCS will make available to EPA and the District, consistent with NRCS's statutory responsibilities under Section 1619 of the Farm Bill, to ensure that both EPA and the District can carry out their respective implementation responsibilities under the CAA and Rule 9610.

A summary of emission reductions achieved through the use of the NRCS Combustion System Improvement of Mobile Engines incentive program guidelines is included in Section VI of this report. The NRCS Combustion System Improvement of Mobile Engines incentive program can be found online at:

Practice Standard:

- CPS 372, Sept 2010: [https://efotg.sc.egov.usda.gov/references/public/CA/Archived\\_372-std-09-2010.pdf](https://efotg.sc.egov.usda.gov/references/public/CA/Archived_372-std-09-2010.pdf)
- Interim 723, May 2009: <https://efotg.sc.egov.usda.gov/references/public/CA/723-std-5-09.pdf>

CPS 372 Specifications:

- Nov 2014: <https://efotg.sc.egov.usda.gov/references/public/CA/372-spec-11-14.doc>
- Aug 2013: <https://efotg.sc.egov.usda.gov/references/public/CA/372-spec-8-13.doc>
- Sept 2010: <https://efotg.sc.egov.usda.gov/references/public/CA/372-spec-09-10.doc>

CPS 372 O&M:

- Sept 2010: <https://efotg.sc.egov.usda.gov/references/public/CA/372-OM-09-10.doc>

## 5. Guidelines Used Under Section 3.2 of Rule 9610

The Annual Demonstration Report employs Section 3.2 of the Rule 9610 by claiming SIP credit for incentive-based emission reductions from the FARMER Guidelines for Agricultural UTV Replacement, Agricultural On-Road Heavy-Duty Truck Replacement and Off-Road Cotton Picker replacement. The CARB Carl Moyer Program Guidelines (2005, 2008, 2011) for locomotive alternative technology switchers and new electric forklift purchases and the reductions from the Proposition 1B Guidelines for Locomotive Replacement. The summaries of these SIP-creditable incentive-based emission reductions claimed under Section 3.2 of Rule 9610 are included in Section VI of this annual demonstration report and the detailed information for each project is presented in the Annual Demonstration Report Data Sheet that accompanies this report.

The following discussion demonstrates that each such incentive program guideline provides for SIP-creditable emission reductions.

### **Agricultural UTV Replacement**

Projects funded with the FARMER Guidelines followed all required steps to ensure SIP-credibility criteria were met as follows:

*Surplus* – There are currently no federal, state, or local rules or regulations pertaining to the emissions of agriculturally used off-road UTVs in the state of California. Therefore, all incentive-based emission reductions are surplus.

*Quantifiable* – The FARMER Guidelines provide calculation methodologies and emission factors for UTV projects. These methodologies have been reviewed and adopted through a public process. All UTV projects in this Annual Demonstration

Report were quantified using these SIP-creditable calculation methodologies found in Appendix A.

*Enforceable* –These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

*Permanent* – Per contractual requirements, the electric UTV is required to be operated for the duration of the project life and the old UTV is required to be permanently disabled at a District contracted dismantling facility.

### **Agricultural Heavy-Duty On-Road Truck Replacement**

Projects funded with the FARMER Guidelines followed all required steps to ensure SIP-credibility criteria were met as follows:

*Surplus* – The on-road trucks that were funded are used for agricultural purposes and were verified to be in compliance at the time of application, and therefore any emissions calculated are surplus to the final state regulation in 2024.

*Quantifiable* – The FARMER Guidelines refer to the current Carl Moyer guidelines that provide calculation methodologies and emission factors for on-road projects. These methodologies have been reviewed and adopted through a public process. All on-road projects in this Annual Demonstration Report were quantified using these SIP-creditable calculation methodologies.

*Enforceable* –These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

*Permanent* – Per contractual requirements, the cleaner truck is required to be operated for the duration of the project life and the old truck is required to be permanently disabled at a District contracted dismantling facility.

### **Cotton Pickers**

Projects funded with the FARMER Guidelines followed all required steps to ensure SIP-credibility criteria were met as follows:

*Surplus* – There are currently no federal, state, or local rules or regulations pertaining to the emissions of agriculturally used off-road cotton pickers in the state of California. Therefore, all incentive-based emission reductions are surplus.



*Quantifiable* – The FARMER Guidelines provide calculation methodologies and emission factors for cotton picker projects. These methodologies have been reviewed and adopted through a public process. All cotton picker projects in this Annual Demonstration Report were quantified using these SIP-creditable calculation methodologies found in Appendix A.

*Enforceable* – These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

*Permanent* – Per contractual requirements, the cotton picker is required to be operated for the duration of the project life and the old cotton picker(s) is/are required to be permanently disabled at a District contracted dismantling facility

### **Locomotive Repower**

Projects funded with the 2008 and 2011 Carl Moyer Program Guidelines followed all required steps to ensure SIP-credibility criteria were met as follows:

*Surplus* – There are currently no federal, state, or local rules or regulations pertaining to the emissions of locomotives in the state of California. Therefore, all incentive-based emission reductions are surplus.

*Quantifiable* – The Carl Moyer Guidelines provide calculation methodologies and emission factors for locomotive projects. These methodologies have been reviewed and adopted through a public process. All locomotive projects in this Annual Demonstration Report were quantified using these SIP-creditable calculation methodologies, as referenced on the Manual of Procedures website.

*Enforceable* – The District performed inspections pursuant to Carl Moyer Guideline requirements and satisfied enforceability requirements under Section 4.0 of Rule 9610. These inspections verified contractual requirements were followed thus ensuring projected emission reductions were achieved. These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

*Permanent* – Per contractual requirements, the cleaner locomotive is required to be operated for the duration of the project life.

### **Purchase of New Electric Forklifts**

Projects funded with the 2008 Carl Moyer Program Guidelines followed all required steps to ensure SIP-credibility criteria were met, as follows:



*Surplus* – The current regulation for off-road mobile equipment has an exemption for agricultural-use vehicles. The forklifts that were funded are used solely for agricultural purposes, and therefore are surplus to the state regulation.

*Quantifiable* – The Carl Moyer Guidelines provide calculation methodologies and emission factors for forklift projects. These methodologies have been reviewed and adopted through a public process. All forklift projects in this report were quantified using these SIP-creditable calculation methodologies. This methodology assumes the baseline equipment to be a new diesel forklift. Therefore, new purchases of electric forklifts are calculated based on the difference in emissions between a new diesel forklift and a new electric forklift.

*Enforceable* – The District performed inspections pursuant to Carl Moyer Guideline requirements and satisfied enforceability requirements under Section 4.0 of Rule 9610. These inspections verified contractual requirements were followed thus ensuring projected emission reductions were achieved. These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

*Permanent* – Per contractual requirements, the new electric forklift is required to be operated for the duration of the project life.

### **Proposition 1B Locomotive Replacement**

Projects funded with the Proposition 1B Program Guidelines followed all required steps to ensure SIP-credibility criteria were met as follows:

*Surplus* – There are currently no federal, state, or local rules or regulations pertaining to the emissions of locomotives in the state of California. Therefore, all incentive-based emission reductions are surplus.

*Quantifiable* – The Proposition 1B Guidelines provide calculation methodologies and emission factors for locomotive projects. These methodologies have been reviewed and adopted through a public process. All locomotive projects in this Annual Demonstration Report were quantified using these SIP-creditable calculation methodologies, as referenced on the Manual of Procedures website.

*Enforceable* – The District performed inspections pursuant to Proposition 1B Guideline requirements and satisfied enforceability requirements under Section 4.0 of Rule 9610. These inspections verified contractual requirements were followed thus ensuring projected emission reductions were achieved. These projects included legally binding contracts between the grantee and the District that identified the party or parties responsible for ensuring that the emission reductions were achieved. These

contracts also obligated the grantee to provide all records needed to demonstrate the emissions reduced.

*Permanent* – Per contractual requirements, the locomotive(s) is/are required to be operated for the duration of the project life and the old locomotive(s) is/are required to be permanently disabled.

This section intentionally blank.

### III. RELEVANT SIP COMMITMENTS

Through Rule 9610, the District may rely on SIP-creditable incentive-based emission reductions to satisfy federal CAA requirements, including the demonstration of attainment, Reasonable Further Progress, Rate of Progress, contingency measures, and/or black box reductions (Section 182(e)(5) of the CAA). For such SIP commitments, the District identifies specific amounts of SIP-creditable emission reductions by year in the relevant SIP. This annual demonstration report then identifies the SIP commitments included in District adopted SIPs (by year, pollutant, and magnitude) which the District has satisfied, in whole or in part, through SIP-creditable emission reductions. This annual demonstration report also identifies and quantifies any SIP commitment shortfalls and remedies for which incentives are used to address those shortfalls.

#### A. SIP Commitments Satisfied

**2008 PM<sub>2.5</sub> Plan (Contingency Quantification, 2015):** The District met its *2008 PM<sub>2.5</sub> Plan* commitment to quantify an adequate amount of contingency emissions reductions, including SIP-creditable emissions reductions from incentive programs quantified in this report. On May 22, 2014, EPA approved a SIP revision to address CAA nonattainment area contingency measure requirements for the 1997 annual and 24-hour fine particulate matter (PM<sub>2.5</sub>) NAAQS in the San Joaquin Valley.<sup>3</sup> SIP-creditable incentive-based emission reductions accounted for by EPA in this proposed approval include on-road vehicle replacement projects that have been funded through the Prop 1B program and agricultural off-road vehicle replacement projects funded through the Carl Moyer Program. However, EPA then proposed to withdraw the approval of the *2008 PM<sub>2.5</sub> Plan* contingencies finding that the requirement had become moot because the District had already met the RFP requirements relevant to the *2008 PM<sub>2.5</sub> Plan* by the time of EPA's May 22, 2014 action.<sup>4</sup> Then, on May 12, 2016, EPA took final action to withdraw its approval of the 2008 PM<sub>2.5</sub> contingencies and disapproved the SIP submission<sup>5</sup> in response to a court case.<sup>6</sup> EPA determined the identified deficiency in the *2008 PM<sub>2.5</sub> Plan* has been addressed and permanently stopped associated sanctions clocks effective December 14, 2017.<sup>7</sup> However, it is important to note that this attainment plan is still not an approved plan in the California SIP.

<sup>3</sup> EPA, Approval and Promulgation of Implementation Plans; California; San Joaquin Valley; Contingency Measures for the 1997 PM<sub>2.5</sub> Standards, 79 Fed. Reg. 99, pp. 29327 - 29351. (2014, May 22). (to be codified at 40 CFR Part 52). Retrieved July 2014 at <http://www.gpo.gov/fdsys/pkg/FR-2014-05-22/pdf/2014-11681.pdf>

<sup>4</sup> EPA, Withdrawal of Approval and Disapproval of Air Quality Implementation Plans; California; San Joaquin Valley; Contingency Measures for the 1997 PM<sub>2.5</sub> Standards. 80 Fed. Reg. 158, pp. 49190-49193. (2015, August 17). <https://www.gpo.gov/fdsys/pkg/FR-2015-08-17/pdf/2015-20240.pdf>

<sup>5</sup> EPA, Withdrawal of Approval and Disapproval of Air Quality Implementation Plans; California, San Joaquin Valley; Contingency Measures for the 1997 PM<sub>2.5</sub> Standards; Final Rule. 81 Fed. Reg. 92, pp.29498-29501 (2016, May 12). (to be codified at 40 CFR Part 52) <https://www.gpo.gov/fdsys/pkg/FR-2016-05-12/pdf/2016-11125.pdf>

<sup>6</sup> U.S. Court of Appeals for the Ninth Circuit (*Committee for a Better Arvin v. EPA*, 786 F.3d 1169 (9<sup>th</sup> Cir. 2015))

<sup>7</sup> Contingency Measures for the 1997 PM<sub>2.5</sub> Standards; California; San Joaquin Valley; Correction of Deficiency; Final Rule. 82 Fed. Reg. 239, pp. 58747-58750. (2017, December 14). (to be codified at 40 CFR Part 52). <https://www.gpo.gov/fdsys/pkg/FR-2017-12-14/pdf/2017-26899.pdf>

**2007 Ozone Plan (Agricultural Equipment, 2017):** The District met its 2007 Ozone Plan commitment to achieve SIP-creditable emissions reductions from incentive reductions, as demonstrated in the 2018 annual demonstration report.

The 2007 San Joaquin Valley 8-Hour Ozone SIP (*2007 Ozone Plan*), approved by EPA, contained a commitment by CARB to achieve emissions reductions of 5 to 10 tpd of NO<sub>x</sub> from mobile agricultural equipment in the Valley by 2017 to accelerate progress toward attainment of the 1997 8-hour ozone standard. The attainment deadline for this standard is 2024, using data from 2021-2023. In October 2013, CARB adopted the *State Implementation Plan Credit from Mobile Agricultural Equipment Regulation* which provides the administrative mechanism for emission reductions resulting from mobile agricultural equipment program projects funded by the Carl Moyer Program to be eligible for SIP credit. The CARB Office of Administrative Law (OAL) approved the rulemaking and filed it with the Secretary of State on October 8, 2014. The rulemaking became effective on January 1, 2015.<sup>8</sup>

Beginning in 2009, the District and NRCS, in partnership with agricultural stakeholders, launched incentive programs aimed at reducing emissions from agricultural equipment. These programs have been well-funded and have achieved significant emission reductions since 2009. As documented in the 2018 Annual Demonstration Report and by CARB at their May 2017 Public Hearing<sup>9</sup>, agricultural equipment replacement projects implemented by the District and NRCS achieved SIP-creditable emissions reductions far in excess of the NO<sub>x</sub> commitment in the *2007 Ozone Plan* ahead of the 2017 target.

The District and NRCS are continuing to invest significant additional funding to replace agricultural equipment in support of continued reductions of criteria pollutants, and the total emissions reductions achieved will continue to grow substantially in the next several years. These emission reductions will support ongoing progress towards attainment of the federal ozone standards.

## B. Pending SIP Commitments

### **State Implementation Plans to Address the 1997, 2006, and 2012 PM<sub>2.5</sub>**

**Standards<sup>10</sup>:** On September 15, 2016, the District adopted the *2016 Moderate Area Plan for the 2012 PM<sub>2.5</sub> Standard (2016 PM<sub>2.5</sub> Plan)*. On November 15, 2018, the District adopted the *2018 Plan for the 1997, 2006, and 2012 PM<sub>2.5</sub> Standards (2018 PM<sub>2.5</sub> Plan)* to address the EPA federal 1997 annual PM<sub>2.5</sub> standard of 15 µg/m<sup>3</sup> and 24-hour PM<sub>2.5</sub> standard of 65 µg/m<sup>3</sup>; the 2006 24-hour PM<sub>2.5</sub> standard of 35 µg/m<sup>3</sup>; and the 2012 annual PM<sub>2.5</sub> standard of 12 µg/m<sup>3</sup>. On January 24, 2019, CARB approved these plans, and CARB submitted both plans to EPA for approval on May 9, 2019. On July 22, 2020, EPA took final action to approve the portions of the *2018 PM<sub>2.5</sub> Plan* that pertain to the

<sup>8</sup> CARB, *State Implementation Plan Credit from Mobile Agricultural Equipment*. Resolution 12-42, Agenda Item No.: 13-9-7 (2013, October 25). <https://www.arb.ca.gov/regact/2013/sipmobileag2013/res13-42.pdf>

<sup>9</sup> CARB May 25, 2017 Public Hearing, <https://www3.arb.ca.gov/board/books/2017/052517/17-5-3pres.pdf>

<sup>10</sup> SJVAPCD. *2018 PM<sub>2.5</sub> Plan for 1997, 2006, and 2012 PM<sub>2.5</sub> Standards* (2018, November 15) retrieved on 7/30/19 from: <http://valleyair.org/pmplans/documents/2018/pm-plan-adopted/2018-Plan-for-the-1997-2006-and-2012-PM2.5-Standards.pdf>

2006 24-hour PM<sub>2.5</sub> standard<sup>11</sup>. The *2018 PM<sub>2.5</sub> Plan* includes a comprehensive suite of regulatory and incentive-based measures for both stationary and mobile sources, and also includes a targeted Hot-Spot Strategy that achieves additional reductions from residential wood burning and commercial charbroiling. The plan includes commitments from the District and CARB to attain an aggregate amount of emissions reductions from local measures for stationary sources and mobile sources. District measures are anticipated to achieve emissions reductions of 1.30 tons per day of PM<sub>2.5</sub> and 1.88 tons per day of NO<sub>x</sub> by the applicable attainment deadlines of 2024 and 2025. Additionally, state measures implemented by CARB are anticipated to achieve 32.0 tons per day of NO<sub>x</sub> and 1.0 tons per day of PM<sub>2.5</sub>. To date, CARB's submittal of the San Joaquin Valley Agricultural Equipment Incentive Measure to EPA quantifies and ensures the emission reductions achieved from mobile agricultural equipment turnover to the cleanest engines are creditable towards the State's aggregate emissions reduction commitment in the California SIP for the San Joaquin Valley. CARB and the District are continuing to implement control measures, as outlined in the *2018 PM<sub>2.5</sub> Plan*, to achieve emission reductions in support of this aggregate commitment. The total emissions reductions achieved towards aforementioned SIP commitments will be documented in future SIP submittals.

### **C. SIP Commitment Shortfalls**

There are no shortfalls at this time; therefore, there are no remedy actions to be taken.

This section intentionally blank.

---

<sup>11</sup> *Clean Air Plans; 2006 Fine Particulate Matter Nonattainment Area Requirements; San Joaquin Valley, California; Final Rule.* <https://www.govinfo.gov/content/pkg/FR-2020-07-22/pdf/2020-14471.pdf>

#### IV. MONITORING AND ENFORCEMENT ACTIVITIES

Pursuant to Section 4.6 of Rule 9610 this annual demonstration report includes a summary of monitoring and enforcement activities that were conducted during the reporting period from 05/14/2009 – 05/21/2021. Monitoring is performed on all projects in the form of pre-inspections prior to contract, post-inspections prior to payment and annual usage surveys filled out by the grantee for the life of the project.

Inspections are performed or reviewed by District staff and include visual verification and photographically document equipment information such as but not limited to:

- Make, model, and model year of the engine and/or vehicle or equipment,
- Vehicle, equipment, and/or engine identification and serial numbers,
- Operational condition of vehicle, equipment, and engine

The District reviews all inspection information to ensure that the submitted information is true and accurate prior to contracting a new project and prior to payment of reimbursement requests from grantees. The table below illustrates the number of pre-inspection and post-inspection that were conducted during the reporting period.

**Table 7: Incentive Program Project Inspections**

| Year | Pre-Inspections | Post-Inspections |
|------|-----------------|------------------|
| 2009 | 924             | 147              |
| 2010 | 790             | 887              |
| 2011 | 1144            | 966              |
| 2012 | 2298            | 1372             |
| 2013 | 2184            | 1533             |
| 2014 | 2034            | 1240             |
| 2015 | 521             | 1329             |
| 2016 | 1028            | 1021             |
| 2017 | 2032            | 1091             |
| 2018 | 2172            | 1597             |
| 2019 | 2164            | 3467             |
| 2020 | 2225            | 3773             |
| 2021 | 1185*           | 1839*            |

\*As of May 22, 2021

District incentive project contractual agreements specify that Grantees must provide data to the District on an annual basis for the duration of their contract period. The required data includes usage data (mileage, hours of operation, percent utilization within the District, etc). The usage data is analyzed by the District to ensure that the incentive projects are achieving the projected emission reductions. The table below illustrates the quantity of usage report surveys distributed from the District to Grantees and the quantity of Grantee completed usage report surveys returned to the District.

**Table 8: Incentive Program Annual Usage Reports**

| Year | Usage Report Surveys Distributed to Grantees | Completed Usage Report Surveys Returned to the District |
|------|--|---|
| 2011 | 3245   | 2948  |
| 2012 | 3426   | 3668  |
| 2013 | 4591   | 4033  |
| 2014 | 5421   | 4931  |
| 2015 | 5553   | 4631  |
| 2016 | 5683   | 5782  |
| 2017 | 6095   | 5270  |
| 2018 | 7460   | 5237  |
| 2019 | 6762   | 5439  |
| 2020 | 8821   | 6430  |
| 2021 | 3894*  | 2926*   |

\*As of May 22, 2021

The District maintains a robust process of collecting and analyzing annual usage data for incentive projects from grantees (e.g. – annual mileage, fuel usage, hours of operation, etc.) This information is collected for the duration of the project life of each individual project. Annual usage of individual projects can vary due to a variety of factors. For example, current drought conditions in the Valley significantly affect the use of agricultural irrigation pump engines causing usage to vary due to increased or decreased pumping needs, crop changes, surface water delivery, etc. Since annual variations can change over the course of the project life, any shortages/overages from the projected use on a yearly basis will likely be resolved when usage is quantified at the end of the project life. The District closely monitors and analyzes annual usage for each project over their respective project lives to ensure that the projects are achieving their expected overall usage and associated emission reductions. Annual usage reports are distributed to Grantees and received from Grantees on a monthly to daily basis throughout the year. Because of the variability in the number of annual reports distributed and received during the reporting period, the number of reports distributed and received will differ. For example, a number of annual reports distributed towards the end of the 2020 reporting period were not received back by the District by the cut-off date for this report. These annual reports are accounted for in the 2021 Annual Demonstration Report. To date, the overall annual usage associated with the project categories included in this report are performing as expected, meeting approximately 84% of their claimed annual usage. The District will continue to monitor annual usage and make any adjustments to claimed emission reductions in the future, as necessary.



### A. Carl Moyer Program Specific Monitoring and Enforcement Activities

Project specific audits are conducted in addition to the monitoring and enforcement activities mentioned above. The project specific audits are conducted between November and December each calendar year and cover all Carl Moyer Program projects that have been implemented and are at least one year into their contracted project life but have not concluded their contracted project life. Projects selected for audit review consist of a 5% random sample of active projects or 20 projects (whichever is less) and all projects that are at least 6 months past due with their most recent annual usage survey. These audits follow procedures set forth in the Carl Moyer Program Guidelines. Projects selected for auditing are reviewed to ensure contract terms are fulfilled; emission reduction calculations are verified and project information is confirmed against the District database for accuracy. An inspection is conducted for each project to verify that the equipment, vehicle or practice is still owned (or in practice) by the Grantee and operational in the same piece of equipment and/or intended use as was contracted. Inspections also verify engine/equipment serial numbers, operational condition and verification of functioning odometer, hour meter/usage device, fuel receipts, or electronic monitoring unit.

If deficiencies are discovered as part of an incentive project audit, the District utilizes remedies identified in section IV (A) above.

#### 2013 – 2020 Calendar Year Carl Moyer Project Specific Audit:

The following table shows audited projects that were determined to be in violation of their contractual terms and the enforcement actions that were taken by the District. For the current 2020 report, there are no new projects to report.

**Table 9: Carl Moyer Program Projects with Contractual Violations**

| Project Number | Annual Demonstration Report Year | Contractual Violation                   | Action Taken                             |
|----------------|----------------------------------|---|--|
| C-2326         | 2013                             | Did not meet minimum usage requirements | Extended contract term 1 additional year |
| N/A            | 2014                             | No projects to report                   |  |
| N/A            | 2015                             | No projects to report                   |  |
| N/A            | 2016                             | No projects to report                   |  |
| N/A            | 2017                             | No projects to report                   |  |
| N/A            | 2018                             | No projects to report                   |  |
| N/A            | 2019                             | No projects to report                   |  |
| N/A            | 2020                             | No projects to report                   |  |

### B. Proposition 1B Program Monitoring and Enforcement Activities

In January 2007, Governor Schwarzenegger signed Executive Order S-02-07 which highlighted the importance of transparency and accountability in administering over \$40



billion in bond funding approved by California voters in 2006. The Executive Order directs all State government entities responsible for expending bond proceeds to establish and document a three part accountability structure. In 2008 Department of Finance (DOF) approved the accountability plan that CARB developed for the Proposition 1B Program which includes:

- Front-end accountability, which defines the criteria for expending bond funds as well as the outcomes that the funds are intended to achieve.
- In-progress accountability, which documents actions to ensure projects are staying within scope and cost, and requires semi-annual reports to the Department of Finance.
- Follow up accountability, which requires Program review or fiscal audits to ensure expenditures achieved the intended outcomes and were consistent with legal requirements.

The District evaluates Proposition 1B equipment projects on an ongoing basis through desk reviews of reports and equipment project updates provided by equipment owners, review of electronic monitoring unit data (as applicable), site inspections, equipment inspections, review of equipment maintenance and activity logs, and other measures deemed appropriate. In addition, equipment project contracts require that equipment owners permit the District, CARB, DOF, the Bureau of State Audits, or any authorize designees, access during normal business hours, to conduct ongoing evaluations for the purpose of monitoring the program. The following table shows audited projects that were determined to be in violation of their contractual terms and the enforcement actions that were taken by the District. For the current 2020 report, there are no new projects to report.

**Table 10: Proposition 1B Program Projects with Contractual Violations**

| <b>Project Number</b> | <b>Annual Demonstration Report Year</b> | <b>Contractual Violation</b>  | <b>Action Taken</b>  |
|-----------------------|---|---|--|
| <b>P-0314-A</b>       | 2013                                    | <i>Unit 1 Annual Usage reports incomplete and/or missing. Unable to reach applicant, certified mail returned undeliverable.</i>           | Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report |
| <b>P-0463-A</b>       | 2013                                    | <i>Units 11 &amp; 13 Annual Usage reports incomplete and/or missing. Unable to reach applicant, certified mail returned undeliverable</i> | Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report |

|           |      |   |  |
|-----------|------|---|--|
| C-14326-A | 2013 | <i>Units 1-2 Annual Usage reports incomplete and/or missing. Unable to reach applicant, certified mail returned undeliverable</i> | Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report |
| P-0610-A  | 2013 | <i>Units 11, 14, 31, 37, 40, 49, 53, &amp; 67 Equipment was no longer owned by applicant due to re-possession</i>                 | Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report |
| C-14254-A | 2013 | <i>Unit 1 Equipment was no longer owned by applicant due to re-possession</i>   | Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report |
| C-14348-A | 2013 | <i>Units 5 &amp; 10, No annual usage reports received, Unable to locate applicant or associated business.</i>                     | Sent to Legal for review and possible further action, associated reductions were removed from the cumulative totals in this report |
| P-0346    | 2013 | Did not purchase eligible equipment as stated in contract   | District took legal action, received judgment by court for amount funded   |
| N/A       | 2014 | <i>No projects to report</i>  |  |
| N/A       | 2015 | <i>No projects to report</i>  |  |
| P-0368-A  | 2016 | <i>Units 18-20, 24. Equipment was no longer owned by applicant due to re-possession</i>   | Projects were closed and associated reductions were removed from the cumulative totals in this report                              |
| N/A       | 2017 | <i>No projects to report</i>  |  |
| N/A       | 2018 | <i>No projects to report</i>  |  |
| N/A       | 2019 | <i>No projects to report</i>  |  |
| N/A       | 2020 | <i>No projects to report</i>  |  |

### C. Combustion Systems Improvement of Mobile Engines Program Monitoring and Enforcement Activities

The USDA NRCS webpage at [https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/financial/eqip/?cid=nr\\_cseprd1342638](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/financial/eqip/?cid=nr_cseprd1342638) summarizes program eligibility. The guidelines state the following: The Grantee has control of the land for the length of the proposed contract through deed, lease, or other written authorization. If the Grantee does not own the land, the landowner must give written consent to install, operate, and maintain the practice through the lifespan of the practice. Engine improvements are covered under Conservation Practice

Standard 372 – Combustion System Improvement, posted on-line in the NRCS Field Office Technical Guide (FOTG) at:

<https://efotg.sc.egov.usda.gov/references/public/CA/372-std-11-2019.pdf>. The CPS 372 practice life is 10 years as described on the FOTG spreadsheet at:

[https://efotg.sc.egov.usda.gov/references/public/CA/Practices\\_Lifespans\\_2012-12\\_CA.xlsx](https://efotg.sc.egov.usda.gov/references/public/CA/Practices_Lifespans_2012-12_CA.xlsx) . NRCS incentive program contracts state that if the tractor is not retained for

10-years then the Grantee will owe a pro-rated amount back to the NRCS.

With regards to the identification of project audits, usage reports, inspections, and other project monitoring activities including enforcement actions as required to Section 4.6 of Rule 9610, the Combustion Systems Improvement of Mobile Engines incentive program is unique from other incentive programs in that NRCS is explicitly prohibited from identifying grantees by name.

Under section 1619 of the Food Conservation, and Energy Act of 2008, Congress has prohibited the Secretary of the USDA and any officer or employee of the USDA from disclosing “information provided by an agricultural producer or owner of agricultural land concerning the agricultural operation, farming or conservation practices, or the land itself, in order to participate in” a USDA program. 7 U.S.C. 8791. Any contractor or cooperator of the USDA is similarly prohibited from disclosing such information. There are several exceptions to this prohibition, including that USDA may disclose information if it is transformed into a statistical or aggregate form without naming any individual owner, operator or producer or a specific data gathering site.

Taking these statutory prohibitions into account, in March 2014, NRCS, EPA, CARB, and the District signed the “Addendum to the December 2010 Statement of Principles Regarding the Approach to State Implementation Plan Creditability of Agricultural Equipment Replacement Incentive Programs Implemented by the USDA Natural Resources Conservation Service and the San Joaquin Valley Air Pollution Control District” (2014 Addendum). The purpose of the 2014 Addendum is to identify information and documentation that NRCS will, consistent with its statutory responsibilities under 7 U.S.C. 8791, make publicly available to ensure that EPA and the District can carry out respective implementation responsibilities under the CAA and Rule 9610. Among other things, the 2014 Addendum states that NRCS will provide EPA and the District with an annual report that includes information regarding emission reductions achieved by individual EQIP projects and that will be certified by the NRCS California State Conservationist by March 31 of each year. Any information provided to the public specific to NRCS grant programs shall be in accordance with the 2014 Addendum.

This section intentionally blank.

Table 11: Canceled NRCS Projects Previously Reported

| Project Number | Annual Demonstration Report Year | Status    | Related Emissions Reductions (total tons/year) |
|----------------|----------------------------------|-----------|--|
| 867            | 2013                             | Cancelled | 1.27   |

This section intentionally blank.

## **V. INCENTIVE PROGRAM EVALUATION**

The District's incentive programs have been developed around several core principles, including cost-effectiveness, integrity, effective program administration, excellent customer service, the efficient use of District resources, fiscal transparency and public accountability. As a result of these focused efforts, the District has become a statewide leader in incentive programs with several elements of these programs being held as models for other air districts' incentive programs throughout California. In fact, the CARB routinely calls upon the District to administer statewide incentive programs on their behalf and on behalf of other local air districts. Recent examples include administering the Lower Emission School Bus Program on behalf of CARB and 18 other air districts, the statewide School Bus Retrofit Program and administering the Carl Moyer Program on behalf of two other air districts.

The District is regularly audited by independent outside agencies including professional accountancy corporations on behalf of the federal government, CARB, the California DOF and the California Bureau of State Audits.<sup>12</sup> These comprehensive and rigorous independent audits focus on every aspect of our incentive programs including District programmatic and fiscal controls. These audits are conducted to ensure that the public funds to which the District has been entrusted are spent appropriately and in the manner in which they were intended. The District welcomes these opportunities to gain valuable feedback regarding implementation of these critical programs. Periodic evaluations such as these are important tools that the District uses to ensure continuous improvement in operation of these core emission reduction strategies. Towards that end, the District's incentive programs were audited by CARB and DOF in 2011, including a thorough review of several of the District's largest and most complex incentive programs totaling more than \$215 million over a four year period. The audits focused on the District's implementation of the following programs:

- Carl Moyer Memorial Air Quality Standards Attainment Program,
- Air Quality Improvement Program,
- Proposition 1B: Goods Movement Emission Reduction Program,
- Proposition 1B: Lower Emission School Bus Program, and
- Federal Diesel Emission Reductions Act School Bus Program

These audits included an extensive desk review of specific projects, a thorough review of District internal programmatic and fiscal policies and procedures, and field validation of projects to ensure that the expected emission reductions were being achieved in practice. Overall, the results of the audits confirmed that the District's incentive programs are fiscally sound and are "efficiently and effectively achieving their emission reduction objectives." CARB's audit report concluded that the District is meeting or exceeding all requirements for the expenditure of funds and commended the District for administering the Proposition 1B Lower Emission School Bus Program on behalf of 18 other local air districts. However, the District is continually identifying opportunities to refine its incentive programs and improve the operational efficiency and effectiveness.

---

<sup>12</sup> The most recent audits of District administered incentive programs can be found online at [http://www.arb.ca.gov/msprog/moyer/audits/2011/san\\_joaquin\\_valley.htm](http://www.arb.ca.gov/msprog/moyer/audits/2011/san_joaquin_valley.htm)

**VI. SUMMARY OF EMISSION REDUCTIONS AND COST EFFECTIVENESS**

The SIP-creditable incentive-based emission reductions represented in this Annual Demonstration Report are from incentive projects implemented 05/22/2020 through 5/21/2021. The data also includes 371 District projects and 152 NRCS projects that were implemented during the timeframes covered under previous reports but were not included in those data sets at the time. The data represented in these tables will continue to be updated through each annual demonstration report as more projects are implemented each year. Although the purpose of District Rule 9610 is to claim SIP credit for incentive-based emission reductions in the Valley through incentive programs administered by the District, NRCS, or CARB, this Annual Demonstration Report only claims SIP credit for those programs administered by the District and NRCS. Future annual demonstration reports may include programs administered by CARB. For the detailed data used to create the following summary tables, refer to the associated Annual Demonstration Report Data Sheet, available electronically with this annual demonstration report.

**Program Summaries**

The following table summarizes the total SIP-creditable incentive-based emission reductions generated through incentive programs, expressed in tons per year and tons per day, claimed in this Annual Demonstration Report. This summary includes SIP-creditable incentive-based emission reductions claimed through incentive program guidelines identified in Sections 3.1 and 3.2 of Rule 9610.

This section intentionally blank.

**Table 12: Total SIP-Creditable Incentive-Based Emission Reductions Generated Through Incentive Programs**

| Year | Current Reporting Period             |       |        |  |      |      | Cumulative Reporting Period          |        |        |                                     |      |      |
|------|--------------------------------------|-------|--------|--|------|------|--------------------------------------|--------|--------|-------------------------------------|------|------|
|      | Emissions Reduced<br>(tons per year) |       |        | Emissions<br>Reduced<br>(tons per day) |      |      | Emissions Reduced<br>(tons per year) |        |        | Emissions Reduced<br>(tons per day) |      |      |
|      | NOx                                  | PM    | ROG    | NOx                                    | PM   | ROG  | NOx                                  | PM     | ROG    | NOx                                 | PM   | ROG  |
| 2009 | 0.00                                 | 0.00  | 0.00   | 0.00                                   | 0.00 | 0.00 | 1098.99                              | 35.78  | 116.17 | 3.01                                | 0.10 | 0.32 |
| 2010 | 0.00                                 | 0.00  | 0.00   | 0.00                                   | 0.00 | 0.00 | 2655.71                              | 82.02  | 237.29 | 7.28                                | 0.22 | 0.65 |
| 2011 | 0.00                                 | 0.00  | 0.00   | 0.00                                   | 0.00 | 0.00 | 4112.25                              | 141.11 | 364.96 | 11.27                               | 0.39 | 1.00 |
| 2012 | 0.00                                 | 0.00  | 0.00   | 0.00                                   | 0.00 | 0.00 | 5804.68                              | 210.38 | 477.51 | 15.90                               | 0.58 | 1.31 |
| 2013 | 0.00                                 | 0.00  | 0.00   | 0.00                                   | 0.00 | 0.00 | 6699.86                              | 248.37 | 572.27 | 18.36                               | 0.68 | 1.57 |
| 2014 | 0.00                                 | 0.00  | 0.00   | 0.00                                   | 0.00 | 0.00 | 6494.06                              | 243.85 | 564.13 | 17.79                               | 0.67 | 1.55 |
| 2015 | 0.00                                 | 0.00  | 0.00   | 0.00                                   | 0.00 | 0.00 | 6528.68                              | 252.86 | 620.84 | 17.89                               | 0.69 | 1.70 |
| 2016 | 0.00                                 | 0.00  | 0.00   | 0.00                                   | 0.00 | 0.00 | 6491.76                              | 256.09 | 673.48 | 17.79                               | 0.70 | 1.85 |
| 2017 | 0.00                                 | 0.00  | 0.00   | 0.00                                   | 0.00 | 0.00 | 6142.10                              | 250.86 | 719.09 | 16.83                               | 0.69 | 1.97 |
| 2018 | 2.49                                 | 0.22  | 0.35   | 0.01                                   | 0.00 | 0.00 | 6689.96                              | 288.29 | 784.01 | 18.33                               | 0.79 | 2.15 |
| 2019 | 82.08                                | 6.04  | 9.42   | 0.22                                   | 0.02 | 0.03 | 7038.71                              | 339.65 | 850.61 | 19.28                               | 0.93 | 2.33 |
| 2020 | 974.35                               | 64.76 | 102.59 | 2.67                                   | 0.18 | 0.28 | 7122.99                              | 377.45 | 859.10 | 19.52                               | 1.03 | 2.35 |
| 2021 | 1015.56                              | 67.63 | 107.31 | 2.78                                   | 0.19 | 0.29 | 6352.38                              | 348.06 | 755.03 | 17.40                               | 0.95 | 2.07 |
| 2022 | 1013.37                              | 67.56 | 107.14 | 2.78                                   | 0.19 | 0.29 | 5622.99                              | 314.69 | 653.73 | 15.41                               | 0.86 | 1.79 |
| 2023 | 996.92                               | 66.89 | 105.77 | 2.73                                   | 0.18 | 0.29 | 4976.10                              | 286.83 | 571.26 | 13.63                               | 0.79 | 1.57 |
| 2024 | 996.27                               | 66.89 | 105.76 | 2.73                                   | 0.18 | 0.29 | 4360.32                              | 259.84 | 469.27 | 11.95                               | 0.71 | 1.29 |
| 2025 | 981.03                               | 66.51 | 104.91 | 2.69                                   | 0.18 | 0.29 | 3736.71                              | 232.41 | 392.41 | 10.24                               | 0.64 | 1.08 |
| 2026 | 981.03                               | 66.51 | 104.91 | 2.69                                   | 0.18 | 0.29 | 3307.48                              | 208.62 | 342.53 | 9.06                                | 0.57 | 0.94 |
| 2027 | 969.66                               | 65.72 | 103.64 | 2.66                                   | 0.18 | 0.28 | 2697.49                              | 176.72 | 277.26 | 7.39                                | 0.48 | 0.76 |
| 2028 | 967.16                               | 65.49 | 103.29 | 2.65                                   | 0.18 | 0.28 | 2012.44                              | 132.71 | 206.35 | 5.51                                | 0.36 | 0.57 |
| 2029 | 891.45                               | 59.78 | 94.47  | 2.44                                   | 0.16 | 0.26 | 1083.43                              | 70.46  | 108.70 | 2.97                                | 0.19 | 0.30 |
| 2030 | 45.28                                | 3.02  | 4.71   | 0.12                                   | 0.01 | 0.01 | 129.36                               | 6.48   | 7.74   | 0.35                                | 0.02 | 0.02 |
| 2031 | 4.21                                 | 0.16  | 0.00   | 0.01                                   | 0.00 | 0.00 | 88.30                                | 3.62   | 3.04   | 0.24                                | 0.01 | 0.01 |

Tables 13 and 14 below are the subsets of the summary provided in Table 12. Table 13 identifies emission reductions claimed through incentive program guidelines pursuant to Section 3.1 of Rule 9610. Table 14 identifies emission reductions claimed through incentive program guidelines pursuant to Section 3.2 of Rule 9610.

This section intentionally blank.



Table 13: Emission Reductions Claimed through use of Incentive Program Guidelines Pursuant to Section 3.1

| Year | Current Reporting Period          |       |        |                                  |      |      | Cumulative Reporting Period       |        |        |                                  |      |      |
|------|-----------------------------------|-------|--------|----------------------------------|------|------|-----------------------------------|--------|--------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |       |        | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |        |        | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM    | ROG    | Nox                              | PM   | ROG  | Nox                               | PM     | ROG    | Nox                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 1082.28                           | 35.22  | 114.57 | 2.97                             | 0.10 | 0.31 |
| 2010 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 2639.00                           | 81.46  | 235.69 | 7.23                             | 0.22 | 0.65 |
| 2011 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 4089.89                           | 140.21 | 363.01 | 11.21                            | 0.38 | 0.99 |
| 2012 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 5721.88                           | 206.47 | 469.23 | 15.68                            | 0.57 | 1.29 |
| 2013 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 6611.93                           | 244.33 | 563.80 | 18.11                            | 0.67 | 1.54 |
| 2014 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 6406.08                           | 239.80 | 555.66 | 17.55                            | 0.66 | 1.52 |
| 2015 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 6426.59                           | 248.48 | 611.52 | 17.61                            | 0.68 | 1.68 |
| 2016 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 6389.62                           | 251.70 | 664.16 | 17.51                            | 0.69 | 1.82 |
| 2017 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 5998.43                           | 244.41 | 709.76 | 16.43                            | 0.67 | 1.94 |
| 2018 | 2.49                              | 0.22  | 0.35   | 0.01                             | 0.00 | 0.00 | 6543.73                           | 281.80 | 774.05 | 17.93                            | 0.77 | 2.12 |
| 2019 | 81.97                             | 6.03  | 9.42   | 0.22                             | 0.02 | 0.03 | 6819.25                           | 330.79 | 810.80 | 18.68                            | 0.91 | 2.22 |
| 2020 | 960.41                            | 64.27 | 101.83 | 2.63                             | 0.18 | 0.28 | 6876.85                           | 367.83 | 816.38 | 18.84                            | 1.01 | 2.24 |
| 2021 | 1001.47                           | 67.13 | 106.53 | 2.74                             | 0.18 | 0.29 | 6107.84                           | 338.43 | 712.42 | 16.73                            | 0.93 | 1.95 |
| 2022 | 999.40                            | 67.07 | 106.37 | 2.74                             | 0.18 | 0.29 | 5394.70                           | 306.02 | 613.64 | 14.78                            | 0.84 | 1.68 |
| 2023 | 992.57                            | 66.73 | 105.76 | 2.72                             | 0.18 | 0.29 | 4762.25                           | 278.58 | 532.91 | 13.05                            | 0.76 | 1.46 |
| 2024 | 992.06                            | 66.73 | 105.76 | 2.72                             | 0.18 | 0.29 | 4185.74                           | 252.38 | 457.33 | 11.47                            | 0.69 | 1.25 |
| 2025 | 976.83                            | 66.35 | 104.91 | 2.68                             | 0.18 | 0.29 | 3634.25                           | 228.44 | 388.52 | 9.96                             | 0.63 | 1.06 |
| 2026 | 976.83                            | 66.35 | 104.91 | 2.68                             | 0.18 | 0.29 | 3219.13                           | 204.98 | 339.49 | 8.82                             | 0.56 | 0.93 |
| 2027 | 965.45                            | 65.56 | 103.64 | 2.65                             | 0.18 | 0.28 | 2609.19                           | 173.09 | 274.22 | 7.15                             | 0.47 | 0.75 |
| 2028 | 962.96                            | 65.34 | 103.29 | 2.64                             | 0.18 | 0.28 | 1924.14                           | 129.08 | 203.31 | 5.27                             | 0.35 | 0.56 |
| 2029 | 887.24                            | 59.62 | 94.47  | 2.43                             | 0.16 | 0.26 | 995.13                            | 66.83  | 105.66 | 2.73                             | 0.18 | 0.29 |
| 2030 | 41.07                             | 2.86  | 4.71   | 0.11                             | 0.01 | 0.01 | 41.07                             | 2.86   | 4.71   | 0.11                             | 0.01 | 0.01 |
| 2031 | 0.00                              | 0.00  | 0.00   | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00   | 0.00   | 0.00                             | 0.00 | 0.00 |

Table 14: Emission Reductions Claimed through use of Incentive Program Guidelines Pursuant to Section 3.2

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |      |       |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|------|-------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |      |       | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  | Nox                               | PM   | ROG   | Nox                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 16.71                             | 0.56 | 1.60  | 0.05                             | 0.00 | 0.00 |
| 2010 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 16.71                             | 0.56 | 1.60  | 0.05                             | 0.00 | 0.00 |
| 2011 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 22.36                             | 0.90 | 1.95  | 0.06                             | 0.00 | 0.01 |
| 2012 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 82.80                             | 3.91 | 8.28  | 0.23                             | 0.01 | 0.02 |
| 2013 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 87.93                             | 4.04 | 8.47  | 0.24                             | 0.01 | 0.02 |
| 2014 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 87.98                             | 4.05 | 8.47  | 0.24                             | 0.01 | 0.02 |
| 2015 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 102.09                            | 4.38 | 9.32  | 0.28                             | 0.01 | 0.03 |
| 2016 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 102.14                            | 4.39 | 9.32  | 0.28                             | 0.01 | 0.03 |
| 2017 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 143.67                            | 6.45 | 9.33  | 0.39                             | 0.02 | 0.03 |
| 2018 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 146.22                            | 6.48 | 9.96  | 0.40                             | 0.02 | 0.03 |
| 2019 | 0.11                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 219.46                            | 8.85 | 39.82 | 0.60                             | 0.02 | 0.11 |
| 2020 | 13.94                             | 0.49 | 0.77 | 0.04                             | 0.00 | 0.00 | 246.15                            | 9.63 | 42.73 | 0.67                             | 0.03 | 0.12 |
| 2021 | 14.08                             | 0.50 | 0.77 | 0.04                             | 0.00 | 0.00 | 244.53                            | 9.63 | 42.61 | 0.67                             | 0.03 | 0.12 |
| 2022 | 13.97                             | 0.49 | 0.77 | 0.04                             | 0.00 | 0.00 | 228.30                            | 8.68 | 40.08 | 0.63                             | 0.02 | 0.11 |
| 2023 | 4.35                              | 0.16 | 0.01 | 0.01                             | 0.00 | 0.00 | 213.85                            | 8.26 | 38.35 | 0.59                             | 0.02 | 0.11 |
| 2024 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 174.58                            | 7.46 | 11.94 | 0.48                             | 0.02 | 0.03 |
| 2025 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 102.47                            | 3.97 | 3.89  | 0.28                             | 0.01 | 0.01 |
| 2026 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 88.34                             | 3.63 | 3.04  | 0.24                             | 0.01 | 0.01 |
| 2027 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 88.30                             | 3.62 | 3.04  | 0.24                             | 0.01 | 0.01 |
| 2028 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 88.30                             | 3.62 | 3.04  | 0.24                             | 0.01 | 0.01 |
| 2029 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 88.30                             | 3.62 | 3.04  | 0.24                             | 0.01 | 0.01 |
| 2030 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 88.30                             | 3.62 | 3.04  | 0.24                             | 0.01 | 0.01 |
| 2031 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 88.30                             | 3.62 | 3.04  | 0.24                             | 0.01 | 0.01 |

1. Prop1B Locomotive projects are contracted with a 15 year project life, Ag Trucks have a 3 year project life, and Ag UTVs have a 5 year project life. Moyer locomotive projects were contracted with a 20-year project life.

**Cost Effectiveness**

The table below is a summary of the overall cost effectiveness (expressed as dollars per ton of emissions reduced), including incentive contributions, and total lifetime emission reductions, for District-administered incentive programs claimed in this annual demonstration report that utilized the Carl Moyer, Proposition 1B, and FARMER incentive program guidelines as identified in Sections 3.1 and 3.2 of Rule 9610. Because each incentive program guideline calculates cost effectiveness differently, the cost-effectiveness represented in Table 15 was calculated by dividing the Incentive Contribution by the total program reductions.

**Table 15: Summary of District-Administered Incentive Programs**

| Project Type   | Incentive Contribution Provided | Grantee Investment | Total Emissions Reductions (Lifetime tons) | Cost Effectiveness (\$/tons) |
|--|---------------------------------|--------------------|--|------------------------------|
| Off-Road Mobile Equipment Replacement/Repower/Retrofit <sup>1, 2</sup> | \$86,864,358.18                 | \$94,315,921.69    | 9,328.98                                   | \$9,311.24                   |
| Agricultural Pump Repower <sup>1</sup>                                 | \$108,320.00                    | \$115,299.63       | 37.78                                      | \$2,867.13                   |
| New Electric Agricultural Pump <sup>1</sup>                            | \$0.00                          | \$0.00             | 0.00                                       | \$0.00                       |
| Truck Replacement <sup>1</sup>   | \$100,000.00                    | \$130,753.32       | 3.65                                       | \$27,389.76                  |
| Locomotive Repower <sup>2</sup>  | \$2,015,694.92                  | \$2,669,079.75     | 76.27                                      | \$26,427.03                  |
| Locomotive Replacement <sup>2</sup>                                    | \$1,243,888.70                  | \$829,259.14       | 327.32                                     | \$3,800.25                   |
| Off-Road Agricultural UTV Replacement <sup>2</sup>                     | \$2,296,642.02                  | \$827,499.19       | 44.68                                      | \$51,404.78                  |
| Truck Replacement- Agricultural <sup>2</sup>                           | \$6,889,570.54                  | \$3,901,954.70     | 33.32                                      | \$206,789.68                 |
| New Off-Road Mobile Equipment <sup>2,3</sup>                           | \$0.00                          | \$0.00             | 0.00                                       | \$0.00                       |

1. SIP-creditable incentive-based emission reductions claimed through incentive program guidelines identified in Section 3.1 of Rule 9610.

2. SIP-creditable incentive-based emission reductions claimed through incentive program guidelines identified in Section 3.2 of Rule 9610.

3. New Off-Road Mobile Equipment is specific to the new purchase of electric large spark ignition (LSI) forklifts.

**Carl Moyer Incentive Program Guidelines**

The following set of tables summarizes the emission reductions claimed in the SIP under Rule 9610 for incentive programs administered by the District using the Carl Moyer Incentive Program Guidelines. Table 16 summarizes the total SIP-creditable incentive-based emission reductions claimed under Sections 3.1 and 3.2 of Rule 9610. Tables 17 through 20 summarize the emission reductions claimed in the SIP from incentive program guidelines identified in Section 3.1 of Rule 9610, while Table 21 summarizes emission reductions claimed in the SIP for locomotive alternative technology switcher projects and new electric forklift purchases, pursuant to Section 3.2 of the rule.

**Table 16: Total Claimed SIP-Creditable Incentive-Based Emission Reductions Using the Carl Moyer Guidelines Pursuant to Section 3.1 and Section 3.2**

| Year        | Current Reporting Period             |       |       |                                     |      |      | Cumulative Reporting Period          |        |        |  |      |      |
|-------------|--------------------------------------|-------|-------|-------------------------------------|------|------|--------------------------------------|--------|--------|--|------|------|
|             | Emissions Reduced<br>(tons per year) |       |       | Emissions Reduced<br>(tons per day) |      |      | Emissions Reduced<br>(tons per year) |        |        | Emissions<br>Reduced<br>(tons per day) |      |      |
|             | Nox                                  | PM    | ROG   | Nox                                 | PM   | ROG  | Nox                                  | PM     | ROG    | Nox                                    | PM   | ROG  |
| <b>2009</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 865.21                               | 22.52  | 96.41  | 2.37                                   | 0.06 | 0.26 |
| <b>2010</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 1179.70                              | 31.19  | 124.29 | 3.23                                   | 0.09 | 0.34 |
| <b>2011</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 1568.04                              | 46.24  | 170.21 | 4.30                                   | 0.13 | 0.47 |
| <b>2012</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 2105.25                              | 69.28  | 236.50 | 5.77                                   | 0.19 | 0.65 |
| <b>2013</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 2626.55                              | 90.80  | 295.16 | 7.20                                   | 0.25 | 0.81 |
| <b>2014</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 1971.03                              | 81.41  | 258.71 | 5.40                                   | 0.22 | 0.71 |
| <b>2015</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 2119.97                              | 90.28  | 281.55 | 5.81                                   | 0.25 | 0.77 |
| <b>2016</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 2334.71                              | 100.68 | 307.80 | 6.40                                   | 0.28 | 0.84 |
| <b>2017</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 2613.00                              | 113.87 | 336.06 | 7.16                                   | 0.31 | 0.92 |
| <b>2018</b> | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 3074.35                              | 142.98 | 378.74 | 8.42                                   | 0.39 | 1.04 |
| <b>2019</b> | 29.99                                | 2.28  | 3.22  | 0.08                                | 0.01 | 0.01 | 3681.41                              | 189.34 | 416.98 | 10.09                                  | 0.52 | 1.14 |
| <b>2020</b> | 786.13                               | 51.97 | 80.91 | 2.15                                | 0.14 | 0.22 | 4491.08                              | 243.74 | 501.61 | 12.30                                  | 0.67 | 1.37 |
| <b>2021</b> | 817.05                               | 53.97 | 84.17 | 2.24                                | 0.15 | 0.23 | 4324.50                              | 237.12 | 477.95 | 11.85                                  | 0.65 | 1.31 |
| <b>2022</b> | 814.98                               | 53.92 | 84.00 | 2.23                                | 0.15 | 0.23 | 3954.65                              | 219.25 | 425.44 | 10.83                                  | 0.60 | 1.17 |

| Year        | Current Reporting Period             |       |       |                                     |      |      | Cumulative Reporting Period          |        |        |  |      |      |
|-------------|--------------------------------------|-------|-------|-------------------------------------|------|------|--------------------------------------|--------|--------|--|------|------|
|             | Emissions Reduced<br>(tons per year) |       |       | Emissions Reduced<br>(tons per day) |      |      | Emissions Reduced<br>(tons per year) |        |        | Emissions<br>Reduced<br>(tons per day) |      |      |
|             | Nox                                  | PM    | ROG   | Nox                                 | PM   | ROG  | Nox                                  | PM     | ROG    | Nox                                    | PM   | ROG  |
| <b>2023</b> | 808.15                               | 53.58 | 83.39 | 2.21                                | 0.15 | 0.23 | 3603.29                              | 203.70 | 380.80 | 9.87                                   | 0.56 | 1.04 |
| <b>2024</b> | 808.15                               | 53.58 | 83.39 | 2.21                                | 0.15 | 0.23 | 3219.26                              | 186.51 | 331.92 | 8.82                                   | 0.51 | 0.91 |
| <b>2025</b> | 792.92                               | 53.20 | 82.54 | 2.17                                | 0.15 | 0.23 | 2852.96                              | 170.89 | 290.12 | 7.82                                   | 0.47 | 0.79 |
| <b>2026</b> | 792.92                               | 53.20 | 82.54 | 2.17                                | 0.15 | 0.23 | 2540.31                              | 157.38 | 255.13 | 6.96                                   | 0.43 | 0.70 |
| <b>2027</b> | 781.54                               | 52.41 | 81.28 | 2.14                                | 0.14 | 0.22 | 2166.48                              | 139.79 | 218.70 | 5.94                                   | 0.38 | 0.60 |
| <b>2028</b> | 781.54                               | 52.41 | 81.28 | 2.14                                | 0.14 | 0.22 | 1658.86                              | 108.59 | 169.40 | 4.54                                   | 0.30 | 0.46 |

This section intentionally blank.

**Table 17: SIP-Creditable Incentive-Based Emission Reductions for Off-Road Compression-Ignition Equipment Replacement Claimed Pursuant to Section 3.1**

| Year | Current Reporting Period             |       |       |                                     |      |      | Cumulative Reporting Period          |        |        |                                     |      |      |
|------|--------------------------------------|-------|-------|-------------------------------------|------|------|--------------------------------------|--------|--------|-------------------------------------|------|------|
|      | Emissions Reduced<br>(tons per year) |       |       | Emissions Reduced<br>(tons per day) |      |      | Emissions Reduced<br>(tons per year) |        |        | Emissions Reduced<br>(tons per day) |      |      |
|      | Nox                                  | PM    | ROG   | Nox                                 | PM   | ROG  | Nox                                  | PM     | ROG    | Nox                                 | PM   | ROG  |
| 2009 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 0.00                                 | 0.00   | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2010 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 0.00                                 | 0.00   | 0.00   | 0.00                                | 0.00 | 0.00 |
| 2011 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 170.33                               | 7.73   | 25.47  | 0.47                                | 0.02 | 0.07 |
| 2012 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 469.96                               | 22.81  | 72.08  | 1.29                                | 0.06 | 0.20 |
| 2013 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 778.93                               | 37.26  | 113.80 | 2.13                                | 0.10 | 0.31 |
| 2014 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 1045.82                              | 50.83  | 152.58 | 2.87                                | 0.14 | 0.42 |
| 2015 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 1268.58                              | 60.89  | 181.90 | 3.48                                | 0.17 | 0.50 |
| 2016 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 1536.31                              | 72.62  | 212.55 | 4.21                                | 0.20 | 0.58 |
| 2017 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 1885.13                              | 88.77  | 246.43 | 5.16                                | 0.24 | 0.68 |
| 2018 | 0.00                                 | 0.00  | 0.00  | 0.00                                | 0.00 | 0.00 | 2375.32                              | 119.00 | 293.54 | 6.51                                | 0.33 | 0.80 |
| 2019 | 26.73                                | 2.19  | 2.98  | 0.07                                | 0.01 | 0.01 | 3135.48                              | 169.05 | 370.09 | 8.59                                | 0.46 | 1.01 |
| 2020 | 740.59                               | 49.84 | 77.05 | 2.03                                | 0.14 | 0.21 | 3953.32                              | 223.84 | 455.14 | 10.83                               | 0.61 | 1.25 |
| 2021 | 771.51                               | 51.84 | 80.30 | 2.11                                | 0.14 | 0.22 | 3813.91                              | 218.11 | 432.93 | 10.45                               | 0.60 | 1.19 |
| 2022 | 771.51                               | 51.84 | 80.30 | 2.11                                | 0.14 | 0.22 | 3510.40                              | 202.94 | 386.21 | 9.62                                | 0.56 | 1.06 |
| 2023 | 771.51                               | 51.84 | 80.30 | 2.11                                | 0.14 | 0.22 | 3200.56                              | 188.47 | 344.51 | 8.77                                | 0.52 | 0.94 |
| 2024 | 771.51                               | 51.84 | 80.30 | 2.11                                | 0.14 | 0.22 | 2932.47                              | 174.82 | 305.68 | 8.03                                | 0.48 | 0.84 |
| 2025 | 771.51                               | 51.84 | 80.30 | 2.11                                | 0.14 | 0.22 | 2713.61                              | 164.83 | 276.58 | 7.43                                | 0.45 | 0.76 |
| 2026 | 771.51                               | 51.84 | 80.30 | 2.11                                | 0.14 | 0.22 | 2448.98                              | 153.17 | 245.98 | 6.71                                | 0.42 | 0.67 |
| 2027 | 771.51                               | 51.84 | 80.30 | 2.11                                | 0.14 | 0.22 | 2101.09                              | 137.07 | 212.22 | 5.76                                | 0.38 | 0.58 |
| 2028 | 771.51                               | 51.84 | 80.30 | 2.11                                | 0.14 | 0.22 | 1614.78                              | 106.93 | 165.21 | 4.42                                | 0.29 | 0.45 |

**Table 18: SIP-Creditable Incentive-Based Emission Reductions for Off-Road Compression-Ignition Equipment Repower and Retrofit Claimed Pursuant to Section 3.1**

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |       |       |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|-------|-------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |       |       | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  | Nox                               | PM    | ROG   | Nox                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 57.54                             | 1.57  | 6.30  | 0.16                             | 0.00 | 0.02 |
| 2010 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 108.86                            | 4.12  | 12.41 | 0.30                             | 0.01 | 0.03 |
| 2011 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 158.88                            | 6.38  | 19.36 | 0.44                             | 0.02 | 0.05 |
| 2012 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 209.04                            | 8.05  | 25.51 | 0.57                             | 0.02 | 0.07 |
| 2013 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 227.46                            | 8.77  | 27.87 | 0.62                             | 0.02 | 0.08 |
| 2014 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 252.91                            | 9.69  | 31.24 | 0.69                             | 0.03 | 0.09 |
| 2015 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 265.86                            | 10.10 | 32.82 | 0.73                             | 0.03 | 0.09 |
| 2016 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 223.23                            | 9.13  | 28.24 | 0.61                             | 0.03 | 0.08 |
| 2017 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 177.10                            | 6.82  | 22.69 | 0.49                             | 0.02 | 0.06 |
| 2018 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 130.15                            | 4.62  | 16.07 | 0.36                             | 0.01 | 0.04 |
| 2019 | 3.25                              | 0.10 | 0.24 | 0.01                             | 0.00 | 0.00 | 140.27                            | 5.65  | 15.44 | 0.38                             | 0.02 | 0.04 |
| 2020 | 26.88                             | 1.50 | 2.59 | 0.07                             | 0.00 | 0.01 | 147.38                            | 6.38  | 15.75 | 0.40                             | 0.02 | 0.04 |
| 2021 | 26.88                             | 1.50 | 2.59 | 0.07                             | 0.00 | 0.01 | 144.44                            | 6.30  | 15.61 | 0.40                             | 0.02 | 0.04 |
| 2022 | 24.81                             | 1.44 | 2.43 | 0.07                             | 0.00 | 0.01 | 93.83                             | 3.89  | 10.66 | 0.26                             | 0.01 | 0.03 |
| 2023 | 17.98                             | 1.11 | 1.82 | 0.05                             | 0.00 | 0.00 | 82.86                             | 3.40  | 9.58  | 0.23                             | 0.01 | 0.03 |
| 2024 | 17.98                             | 1.11 | 1.82 | 0.05                             | 0.00 | 0.00 | 49.95                             | 2.19  | 5.38  | 0.14                             | 0.01 | 0.01 |
| 2025 | 16.86                             | 1.08 | 1.77 | 0.05                             | 0.00 | 0.00 | 32.97                             | 1.58  | 3.36  | 0.09                             | 0.00 | 0.01 |
| 2026 | 16.86                             | 1.08 | 1.77 | 0.05                             | 0.00 | 0.00 | 20.67                             | 1.12  | 2.14  | 0.06                             | 0.00 | 0.01 |
| 2027 | 9.85                              | 0.56 | 0.96 | 0.03                             | 0.00 | 0.00 | 12.21                             | 0.59  | 1.22  | 0.03                             | 0.00 | 0.00 |
| 2028 | 9.85                              | 0.56 | 0.96 | 0.03                             | 0.00 | 0.00 | 10.47                             | 0.57  | 0.99  | 0.03                             | 0.00 | 0.00 |

**Table 19: SIP-Creditable Incentive-Based Emission Reductions for Repower of Agricultural Pumps Engines Claimed Pursuant to Section 3.1**

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |       |        |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|-------|--------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |       |        | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  | Nox                               | PM    | ROG    | Nox                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 790.60                            | 20.38 | 88.49  | 2.17                             | 0.06 | 0.24 |
| 2010 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1036.20                           | 25.64 | 109.36 | 2.84                             | 0.07 | 0.30 |
| 2011 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1190.57                           | 30.22 | 122.05 | 3.26                             | 0.08 | 0.33 |
| 2012 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1307.24                           | 33.46 | 128.73 | 3.58                             | 0.09 | 0.35 |
| 2013 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1489.44                           | 39.63 | 142.78 | 4.08                             | 0.11 | 0.39 |
| 2014 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 530.19                            | 15.52 | 63.33  | 1.45                             | 0.04 | 0.17 |
| 2015 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 413.29                            | 13.41 | 53.43  | 1.13                             | 0.04 | 0.15 |
| 2016 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 397.03                            | 12.95 | 52.88  | 1.09                             | 0.04 | 0.14 |
| 2017 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 369.62                            | 12.15 | 52.10  | 1.01                             | 0.03 | 0.14 |
| 2018 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 383.01                            | 13.20 | 54.15  | 1.05                             | 0.04 | 0.15 |
| 2019 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 195.80                            | 7.68  | 13.96  | 0.54                             | 0.02 | 0.04 |
| 2020 | 4.54                              | 0.29 | 0.48 | 0.01                             | 0.00 | 0.00 | 176.01                            | 6.84  | 12.83  | 0.48                             | 0.02 | 0.04 |
| 2021 | 4.54                              | 0.29 | 0.48 | 0.01                             | 0.00 | 0.00 | 159.74                            | 6.18  | 11.99  | 0.44                             | 0.02 | 0.03 |
| 2022 | 4.54                              | 0.29 | 0.48 | 0.01                             | 0.00 | 0.00 | 154.35                            | 5.95  | 11.65  | 0.42                             | 0.02 | 0.03 |
| 2023 | 4.54                              | 0.29 | 0.48 | 0.01                             | 0.00 | 0.00 | 130.43                            | 5.41  | 10.14  | 0.36                             | 0.01 | 0.03 |
| 2024 | 4.54                              | 0.29 | 0.48 | 0.01                             | 0.00 | 0.00 | 75.50                             | 3.86  | 6.74   | 0.21                             | 0.01 | 0.02 |
| 2025 | 4.54                              | 0.29 | 0.48 | 0.01                             | 0.00 | 0.00 | 47.67                             | 2.90  | 4.78   | 0.13                             | 0.01 | 0.01 |
| 2026 | 4.54                              | 0.29 | 0.48 | 0.01                             | 0.00 | 0.00 | 30.61                             | 1.90  | 3.11   | 0.08                             | 0.01 | 0.01 |
| 2027 | 0.18                              | 0.01 | 0.02 | 0.00                             | 0.00 | 0.00 | 16.15                             | 1.09  | 2.09   | 0.04                             | 0.00 | 0.01 |



**Table 20: SIP-Creditable Incentive-Based Emission Reductions for Purchase of New Electric Agricultural Pump Motors Claimed Pursuant to Section 3.1**

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |      |      |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|------|------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      |
|      | NOx                               | PM   | ROG  | NOx                              | PM   | ROG  | NOx                               | PM   | ROG  | NOx                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2010 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 17.57                             | 0.85 | 0.91 | 0.05                             | 0.00 | 0.00 |
| 2011 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 25.54                             | 0.99 | 1.37 | 0.07                             | 0.00 | 0.00 |
| 2012 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 35.86                             | 1.04 | 1.88 | 0.10                             | 0.00 | 0.01 |
| 2013 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 42.45                             | 1.08 | 2.21 | 0.12                             | 0.00 | 0.01 |
| 2014 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 53.78                             | 1.30 | 3.06 | 0.15                             | 0.00 | 0.01 |
| 2015 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 69.80                             | 1.47 | 4.05 | 0.19                             | 0.00 | 0.01 |
| 2016 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 75.65                             | 1.57 | 4.77 | 0.21                             | 0.00 | 0.01 |
| 2017 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 78.61                             | 1.72 | 5.49 | 0.22                             | 0.00 | 0.02 |
| 2018 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 83.86                             | 1.76 | 5.67 | 0.23                             | 0.00 | 0.02 |
| 2019 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 83.86                             | 1.76 | 5.67 | 0.23                             | 0.00 | 0.02 |
| 2020 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 66.29                             | 0.91 | 4.76 | 0.18                             | 0.00 | 0.01 |
| 2021 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 58.32                             | 0.77 | 4.30 | 0.16                             | 0.00 | 0.01 |
| 2022 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 48.00                             | 0.72 | 3.79 | 0.13                             | 0.00 | 0.01 |
| 2023 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 41.41                             | 0.68 | 3.46 | 0.11                             | 0.00 | 0.01 |
| 2024 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 30.08                             | 0.46 | 2.61 | 0.08                             | 0.00 | 0.01 |
| 2025 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 14.06                             | 0.29 | 1.62 | 0.04                             | 0.00 | 0.00 |
| 2026 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 8.21                              | 0.18 | 0.90 | 0.02                             | 0.00 | 0.00 |
| 2027 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 5.25                              | 0.04 | 0.19 | 0.01                             | 0.00 | 0.00 |

**Table 21: SIP-Creditable Incentive-Based Emission Reductions for Locomotives, Yard Trucks, New Electric Forklift Purchase Claimed Pursuant to Section 3.2**

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |      |       |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|------|-------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |      |       | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  | Nox                               | PM   | ROG   | Nox                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 16.71                             | 0.56 | 1.60  | 0.05                             | 0.00 | 0.00 |
| 2010 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 16.71                             | 0.56 | 1.60  | 0.05                             | 0.00 | 0.00 |
| 2011 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 22.36                             | 0.90 | 1.95  | 0.06                             | 0.00 | 0.01 |
| 2012 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 82.80                             | 3.91 | 8.28  | 0.23                             | 0.01 | 0.02 |
| 2013 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 87.93                             | 4.04 | 8.47  | 0.24                             | 0.01 | 0.02 |
| 2014 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 87.98                             | 4.05 | 8.47  | 0.24                             | 0.01 | 0.02 |
| 2015 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 102.09                            | 4.38 | 9.32  | 0.28                             | 0.01 | 0.03 |
| 2016 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 102.14                            | 5.18 | 9.32  | 0.28                             | 0.01 | 0.03 |
| 2017 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 102.18                            | 5.98 | 9.33  | 0.28                             | 0.02 | 0.03 |
| 2018 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 102.18                            | 5.98 | 9.33  | 0.28                             | 0.02 | 0.03 |
| 2019 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 126.53                            | 6.80 | 11.85 | 0.35                             | 0.02 | 0.03 |
| 2020 | 14.11                             | 0.35 | 0.80 | 0.04                             | 0.00 | 0.00 | 148.61                            | 7.36 | 13.16 | 0.41                             | 0.02 | 0.04 |
| 2021 | 14.11                             | 0.35 | 0.80 | 0.04                             | 0.00 | 0.00 | 148.61                            | 7.36 | 13.16 | 0.41                             | 0.02 | 0.04 |
| 2022 | 14.11                             | 0.35 | 0.80 | 0.04                             | 0.00 | 0.00 | 148.61                            | 7.36 | 13.16 | 0.41                             | 0.02 | 0.04 |
| 2023 | 14.11                             | 0.35 | 0.80 | 0.04                             | 0.00 | 0.00 | 148.56                            | 7.35 | 13.15 | 0.41                             | 0.02 | 0.04 |
| 2024 | 14.11                             | 0.35 | 0.80 | 0.04                             | 0.00 | 0.00 | 131.80                            | 6.79 | 11.55 | 0.36                             | 0.02 | 0.03 |
| 2025 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 46.49                             | 2.96 | 3.89  | 0.13                             | 0.01 | 0.01 |
| 2026 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 32.37                             | 1.83 | 3.04  | 0.09                             | 0.01 | 0.01 |
| 2027 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 32.32                             | 1.03 | 3.04  | 0.09                             | 0.00 | 0.01 |

1. Locomotive projects are contracted with a 20 year project life and Forklifts are contracted with a 10 year project life

**Proposition 1B Incentive Program Guidelines**

The following table is a summary of incentive-based emission reductions claimed in the SIP from incentive programs administered by the District using the Proposition 1B incentive program guidelines, as identified in Section 3.1 and 3.2 of Rule 9610.

**Table 22: SIP-Creditable Incentive-Based Emission Reductions for On-Road Trucks**

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |       |      |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|-------|------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |       |      | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  | Nox                               | PM    | ROG  | Nox                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 91.80                             | 8.35  | 0.00 | 0.25                             | 0.02 | 0.00 |
| 2010 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 668.19                            | 20.76 | 0.00 | 1.83                             | 0.06 | 0.00 |
| 2011 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1170.35                           | 41.17 | 0.00 | 3.21                             | 0.11 | 0.00 |
| 2012 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1986.48                           | 72.93 | 0.00 | 5.44                             | 0.20 | 0.00 |
| 2013 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 2095.95                           | 77.49 | 0.00 | 5.74                             | 0.21 | 0.00 |
| 2014 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 2351.60                           | 72.73 | 0.00 | 6.44                             | 0.20 | 0.00 |
| 2015 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1968.05                           | 61.07 | 0.00 | 5.39                             | 0.17 | 0.00 |
| 2016 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1508.28                           | 39.50 | 0.00 | 4.13                             | 0.11 | 0.00 |
| 2017 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 694.20                            | 8.83  | 0.00 | 1.90                             | 0.02 | 0.00 |
| 2018 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 600.74                            | 4.31  | 0.00 | 1.65                             | 0.01 | 0.00 |
| 2019 | 0.51                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 270.36                            | 0.55  | 0.00 | 0.74                             | 0.00 | 0.00 |
| 2020 | 0.51                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 70.33                             | 0.00  | 0.00 | 0.19                             | 0.00 | 0.00 |
| 2021 | 0.51                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 23.82                             | 0.00  | 0.00 | 0.07                             | 0.00 | 0.00 |
| 2022 | 0.51                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 21.77                             | 0.00  | 0.00 | 0.06                             | 0.00 | 0.00 |
| 2023 | 0.51                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 4.16                              | 0.00  | 0.00 | 0.01                             | 0.00 | 0.00 |
| 2024 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00  | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2025 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00  | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2026 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00  | 0.00 | 0.00                             | 0.00 | 0.00 |

Table 23: SIP-Creditable Incentive-Based Emission Reductions for Locomotive Replacement

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |      |      |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|------|------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2010 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2011 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2012 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2013 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2014 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2015 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2016 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2017 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 41.49                             | 2.05 | 0.00 | 0.11                             | 0.01 | 0.00 |
| 2018 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 41.49                             | 2.05 | 0.00 | 0.11                             | 0.01 | 0.00 |
| 2019 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 51.77                             | 2.44 | 0.00 | 0.14                             | 0.01 | 0.00 |
| 2020 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2021 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2022 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2023 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2024 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2025 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2026 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2027 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2028 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2029 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2030 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |
| 2031 | 4.21                              | 0.16 | 0.00 | 0.01                             | 0.00 | 0.00 | 55.97                             | 2.60 | 0.00 | 0.15                             | 0.01 | 0.00 |

**Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program Guidelines**

The following table is a summary of incentive-based emission reductions claimed in the SIP from incentive programs administered by the District using the FARMER program guidelines, as identified in 3.2 of Rule 9610.

**Table 24: SIP-Creditable Incentive-Based Emission Reductions for Agricultural UTV and On-Road Truck Replacement Claimed Pursuant to Section 3.2**

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |      |       |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|------|-------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |      |       | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  | Nox                               | PM   | ROG   | Nox                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |
| 2010 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |
| 2011 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |
| 2012 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |
| 2013 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |
| 2014 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |
| 2015 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |
| 2016 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |
| 2017 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |
| 2018 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 2.54                              | 0.02 | 0.64  | 0.01                             | 0.00 | 0.00 |
| 2019 | 0.11                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 41.16                             | 1.20 | 27.97 | 0.11                             | 0.00 | 0.08 |
| 2020 | 9.73                              | 0.34 | 0.77 | 0.03                             | 0.00 | 0.00 | 55.67                             | 1.60 | 30.37 | 0.15                             | 0.00 | 0.08 |
| 2021 | 9.88                              | 0.34 | 0.77 | 0.03                             | 0.00 | 0.00 | 54.05                             | 1.60 | 30.25 | 0.15                             | 0.00 | 0.08 |
| 2022 | 9.77                              | 0.34 | 0.77 | 0.03                             | 0.00 | 0.00 | 37.82                             | 0.66 | 27.72 | 0.10                             | 0.00 | 0.08 |
| 2023 | 0.14                              | 0.00 | 0.01 | 0.00                             | 0.00 | 0.00 | 23.43                             | 0.24 | 25.99 | 0.06                             | 0.00 | 0.07 |
| 2024 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.91                              | 0.01 | 1.18  | 0.00                             | 0.00 | 0.00 |
| 2025 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00  | 0.00                             | 0.00 | 0.00 |

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |      |      |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|------|------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  |
| 2026 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2027 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |
| 2028 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 |

**NRCS Combustion Systems Improvement of Mobile Equipment Incentive Program Guidelines**

The following table provides a summary of the SIP-creditable incentive-based emission reductions claimed in the SIP for incentive projects administered by the NRCS, as identified in Section 3.1 of Rule 9610.

**Table 25: SIP-Creditable Incentive-Based Emission Reductions for Agricultural Equipment**

| Year | Current Reporting Period          |      |      |                                  |      |      | Cumulative Reporting Period       |        |        |                                  |      |      |
|------|-----------------------------------|------|------|----------------------------------|------|------|-----------------------------------|--------|--------|----------------------------------|------|------|
|      | Emissions Reduced (tons per year) |      |      | Emissions Reduced (tons per day) |      |      | Emissions Reduced (tons per year) |        |        | Emissions Reduced (tons per day) |      |      |
|      | Nox                               | PM   | ROG  | Nox                              | PM   | ROG  | Nox                               | PM     | ROG    | Nox                              | PM   | ROG  |
| 2009 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 141.98                            | 4.91   | 19.76  | 0.39                             | 0.01 | 0.05 |
| 2010 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 807.82                            | 30.07  | 113.00 | 2.21                             | 0.08 | 0.31 |
| 2011 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1373.86                           | 53.70  | 194.75 | 3.76                             | 0.15 | 0.53 |
| 2012 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1712.94                           | 68.17  | 241.01 | 4.69                             | 0.19 | 0.66 |
| 2013 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 1977.35                           | 80.08  | 277.11 | 5.42                             | 0.22 | 0.76 |
| 2014 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 2183.73                           | 89.71  | 305.42 | 5.98                             | 0.25 | 0.84 |
| 2015 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 2440.13                           | 101.50 | 339.29 | 6.69                             | 0.28 | 0.93 |
| 2016 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 2648.23                           | 115.91 | 365.67 | 7.26                             | 0.32 | 1.00 |
| 2017 | 0.00                              | 0.00 | 0.00 | 0.00                             | 0.00 | 0.00 | 2792.87                           | 126.10 | 383.02 | 7.65                             | 0.35 | 1.05 |
| 2018 | 2.49                              | 0.22 | 0.35 | 0.01                             | 0.00 | 0.00 | 2970.30                           | 138.92 | 404.63 | 8.14                             | 0.38 | 1.11 |
| 2019 | 51.48                             | 3.75 | 6.20 | 0.14                             | 0.01 | 0.02 | 2993.48                           | 146.13 | 405.66 | 8.20                             | 0.40 | 1.11 |

| Year        | Current Reporting Period             |       |       |                                     |      |      | Cumulative Reporting Period          |        |        |                                     |      |      |
|-------------|--------------------------------------|-------|-------|-------------------------------------|------|------|--------------------------------------|--------|--------|-------------------------------------|------|------|
|             | Emissions Reduced<br>(tons per year) |       |       | Emissions Reduced<br>(tons per day) |      |      | Emissions Reduced<br>(tons per year) |        |        | Emissions Reduced<br>(tons per day) |      |      |
|             | Nox                                  | PM    | ROG   | Nox                                 | PM   | ROG  | Nox                                  | PM     | ROG    | Nox                                 | PM   | ROG  |
| <b>2020</b> | 173.77                               | 12.29 | 20.91 | 0.48                                | 0.03 | 0.06 | 2449.94                              | 129.51 | 327.12 | 6.71                                | 0.35 | 0.90 |
| <b>2021</b> | 183.91                               | 13.15 | 22.37 | 0.50                                | 0.04 | 0.06 | 1894.04                              | 106.74 | 246.83 | 5.19                                | 0.29 | 0.68 |
| <b>2022</b> | 183.91                               | 13.15 | 22.37 | 0.50                                | 0.04 | 0.06 | 1552.78                              | 92.19  | 200.57 | 4.25                                | 0.25 | 0.55 |
| <b>2023</b> | 183.91                               | 13.15 | 22.37 | 0.50                                | 0.04 | 0.06 | 1289.25                              | 80.29  | 164.47 | 3.53                                | 0.22 | 0.45 |
| <b>2024</b> | 183.91                               | 13.15 | 22.37 | 0.50                                | 0.04 | 0.06 | 1084.18                              | 70.72  | 136.16 | 2.97                                | 0.19 | 0.37 |
| <b>2025</b> | 183.91                               | 13.15 | 22.37 | 0.50                                | 0.04 | 0.06 | 827.78                               | 58.93  | 102.29 | 2.27                                | 0.16 | 0.28 |
| <b>2026</b> | 183.91                               | 13.15 | 22.37 | 0.50                                | 0.04 | 0.06 | 619.67                               | 44.52  | 75.91  | 1.70                                | 0.12 | 0.21 |
| <b>2027</b> | 183.91                               | 13.15 | 22.37 | 0.50                                | 0.04 | 0.06 | 475.03                               | 34.33  | 58.56  | 1.30                                | 0.09 | 0.16 |
| <b>2028</b> | 181.42                               | 12.93 | 22.02 | 0.50                                | 0.04 | 0.06 | 297.60                               | 21.52  | 36.95  | 0.82                                | 0.06 | 0.10 |

This section intentionally blank.

**Appendix A**  
**District Incentive Program Project Information**



## Description Vehicle Replacement

| Project #    | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| C-25129-1-A1 | Agricultural Tractor | Diesel    | 2005     | 91     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1200                 |                      |                     | 10                 | Kings             |
| C-26407-1-A1 | Agricultural Tractor | Diesel    | 1979     | 77     | Tier 0   | 2017   | 106    | Tier 4 Final            | 200                  |                      |                     | 10                 | Fresno            |
| C-31040-1-A1 | Agricultural Tractor | Diesel    | 1987     | 81     | Tier 0   | 2018   | 115    | Tier 4 Final            | 800                  |                      |                     | 10                 | Stanislaus        |
| C-37897-1-A1 | Agricultural Tractor | Diesel    | 1996     | 62     | Tier 0   | 2019   | 58     | Tier 4 Final            | 900                  |                      |                     | 10                 | Tulare            |
| C-37899-1-A1 | Agricultural Tractor | Diesel    | 1999     | 72     | Tier 1   | 2020   | 73     | Tier 4 Final            | 900                  |                      |                     | 10                 | Tulare            |
| C-37900-1-A1 | Agricultural Tractor | Diesel    | 1996     | 81     | Tier 0   | 2019   | 123    | Tier 4 Final            | 1700                 |                      |                     | 10                 | Tulare            |
| C-38428-1A   | Swathers             | Diesel    | 1996     | 152    | Tier 0   | 2019   | 162    | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| C-39259-1-A1 | Sprayer              | Diesel    | 1998     | 89     | Tier 1   | 2014   | 173    | Tier 4 Phase In/Alt NOx | 1000                 |                      |                     | 10                 | Kings             |
| C-39491-1-A1 | Agricultural Tractor | Diesel    | 1978     | 76     | Tier 0   | 2019   | 114    | Tier 4 Final            | 150                  |                      |                     | 10                 | Fresno            |
| C-40634-1A   | Agricultural Tractor | Diesel    | 1996     | 108    | Tier 0   | 2019   | 61     | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| C-45086-1-A1 | Agricultural Tractor | Diesel    | 1980     | 84     | Tier 0   | 2020   | 123    | Tier 4 Final            | 250                  |                      |                     | 10                 | Fresno            |
| C-45455-1-A1 | Chopper              | Diesel    | 2007     | 525    | Tier 2   | 2019   | 764    | Tier 4 Final            | 850                  |                      |                     | 10                 | Tulare            |
| C-46003-1-A1 | Agricultural Tractor | Diesel    | 2004     | 300    | Tier 2   | 2019   | 123    | Tier 4 Final            | 350                  |                      |                     | 10                 | Fresno            |
| C-46310-1-A1 | Wheel Loader         | Diesel    | 1992     | 101    | Tier 0   | 2020   | 93     | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| C-46851-1-A1 | Wheel Loader         | Diesel    | 1972     | 200    | Tier 0   | 2019   | 272    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Kings             |
| C-46999-1-A1 | Agricultural Tractor | Diesel    | 1968     | 58     | Tier 0   | 2017   | 60     | Tier 4 Final            | 100                  |                      |                     | 10                 | Stanislaus        |
| C-48460-1A   | Agricultural Tractor | Diesel    | 2000     | 81     | Tier 1   | 2018   | 100    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Fresno            |
| C-49088-1-A1 | Agricultural Tractor | Diesel    | 2004     | 113    | Tier 2   | 2019   | 114    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Fresno            |
| C-49381-1-A1 | Agricultural Tractor | Diesel    | 2002     | 71     | Tier 1   | 2020   | 73     | Tier 4 Final            | 300                  |                      |                     | 10                 | Merced            |
| C-51132-1-A1 | Wheel Loader         | Diesel    | 2006     | 129    | Tier 2   | 2019   | 173    | Tier 4 Final            | 2000                 |                      |                     | 10                 | Stanislaus        |
| C-51801-1-A1 | Wheel Loader         | Diesel    | 1999     | 125    | Tier 1   | 2020   | 166    | Tier 4 Final            | 2000                 |                      |                     | 10                 | Tulare            |
| C-51802-1-A1 | Wheel Loader         | Diesel    | 1985     | 125    | Tier 0   | 2020   | 166    | Tier 4 Final            | 2000                 |                      |                     | 10                 | Tulare            |
| C-51893-1-A1 | Agricultural Tractor | Diesel    | 1980     | 76     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 300                  |                      |                     | 10                 | Fresno            |
| C-51949-1-A1 | Wheel Loader         | Diesel    | 1996     | 178    | Tier 1   | 2020   | 231    | Tier 4 Final            | 1600                 |                      |                     | 10                 | Merced            |
| C-51964-1-A1 | Wheel Loader         | Diesel    | 1988     | 85     | Tier 0   | 2020   | 152    | Tier 4 Final            | 1400                 |                      |                     | 10                 | Fresno            |
| C-52121-1-A1 | Agricultural Tractor | Diesel    | 1999     | 53     | Tier 1   | 2019   | 115    | Tier 4 Final            | 700                  |                      |                     | 10                 | Tulare            |
| C-52776-1-A1 | Wheel Loader         | Diesel    | 1994     | 150    | Tier 0   | 2020   | 192    | Tier 4 Final            | 1800                 |                      |                     | 10                 | Fresno            |
| C-52809-1-A1 | Wheel Loader         | Diesel    | 1999     | 125    | Tier 1   | 2018   | 182    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Stanislaus        |
| C-52922-1-A1 | Wheel Loader         | Diesel    | 1996     | 120    | Tier 0   | 2020   | 166    | Tier 4 Final            | 1200                 |                      |                     | 10                 | Kings             |
| C-52944-1-A1 | Agricultural Tractor | Diesel    | 1991     | 97     | Tier 0   | 2020   | 135    | Tier 4 Final            | 1200                 |                      |                     | 10                 | Tulare            |
| C-52969-1-A1 | Wheel Loader         | Diesel    | 1997     | 90     | Tier 0   | 2020   | 164    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Madera            |

## Description Vehicle Replacement

| Project #    | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| C-52977-1-A1 | Agricultural Tractor | Diesel    | 1996     | 50     | Tier 0   | 2019   | 60     | Tier 4 Final            | 750                  |                      |                     | 10 Stanislaus      |                   |
| C-52998-1-A1 | Sweeper              | Diesel    | 1995     | 74     | Tier 0   | 2019   | 74     | Tier 4 Final            | 400                  |                      |                     | 10 Stanislaus      |                   |
| C-53048-1-A1 | Agricultural Tractor | Diesel    | 1995     | 270    | Tier 0   | 2019   | 370    | Tier 4 Final            | 1100                 |                      |                     | 10 Stanislaus      |                   |
| C-53359-1-A1 | Agricultural Tractor | Diesel    | 1988     | 88     | Tier 0   | 2018   | 74     | Tier 4 Final            | 500                  |                      |                     | 10 Merced          |                   |
| C-53386-1-A1 | Wheel Loader         | Diesel    | 2005     | 160    | Tier 2   | 2020   | 170    | Tier 4 Final            | 3000                 |                      |                     | 10 Kings           |                   |
| C-53475-1-A1 | Agricultural Tractor | Diesel    | 2006     | 210    | Tier 2   | 2020   | 270    | Tier 4 Final            | 750                  |                      |                     | 10 Fresno          |                   |
| C-53491-1-A1 | Skid Loader          | Diesel    | 1963     | 120    | Tier 0   | 2018   | 73     | Tier 4 Final            | 1250                 |                      |                     | 10 Kings           |                   |
| C-53707-1-A1 | Agricultural Tractor | Diesel    | 1997     | 156    | Tier 1   | 2020   | 175    | Tier 4 Final            | 650                  |                      |                     | 10 Merced          |                   |
| C-53709-1-A1 | Agricultural Tractor | Diesel    | 1996     | 99     | Tier 0   | 2019   | 114    | Tier 4 Final            | 450                  |                      |                     | 10 Merced          |                   |
| C-53858-1-A1 | Sprayer              | Diesel    | 2007     | 93     | Tier 2   | 2014   | 173    | Tier 4 Phase In/Alt NOx | 1000                 |                      |                     | 10 Kings           |                   |
| C-53872-1-A1 | Agricultural Tractor | Diesel    | 1997     | 99     | Tier 0   | 2018   | 114    | Tier 4 Final            | 500                  |                      |                     | 10 Stanislaus      |                   |
| C-53935-1-A1 | Wheel Loader         | Diesel    | 2001     | 172    | Tier 1   | 2020   | 182    | Tier 4 Final            | 2900                 |                      |                     | 10 Kings           |                   |
| C-53937-1-A1 | Wheel Loader         | Diesel    | 2005     | 153    | Tier 2   | 2020   | 164    | Tier 4 Final            | 2900                 |                      |                     | 10 Kings           |                   |
| C-53938-1-A1 | Wheel Loader         | Diesel    | 2005     | 153    | Tier 2   | 2018   | 188    | Tier 4 Final            | 2900                 |                      |                     | 10 Kings           |                   |
| C-54000-1-A1 | Agricultural Tractor | Diesel    | 2004     | 283    | Tier 2   | 2018   | 370    | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |
| C-54082-1-A1 | Agricultural Tractor | Diesel    | 2005     | 175    | Tier 2   | 2020   | 230    | Tier 4 Final            | 450                  |                      |                     | 10 Fresno          |                   |
| C-54116-1-A1 | Agricultural Tractor | Diesel    | 1991     | 88     | Tier 0   | 2019   | 123    | Tier 4 Final            | 250                  |                      |                     | 10 Kings           |                   |
| C-54122-1-A1 | Skid Loader          | Diesel    | 1973     | 43     | Tier 0   | 2018   | 73     | Tier 4 Final            | 250                  |                      |                     | 10 Fresno          |                   |
| C-54340-1-A1 | Sprayer              | Diesel    | 1982     | 84     | Tier 0   | 2014   | 173    | Tier 4 Phase In/Alt NOx | 1000                 |                      |                     | 10 Kings           |                   |
| C-54419-1-A1 | Wheel Loader         | Diesel    | 1988     | 168    | Tier 0   | 2020   | 232    | Tier 4 Final            | 1500                 |                      |                     | 10 Tulare          |                   |
| C-54447-1-A1 | Agricultural Tractor | Diesel    | 2006     | 105    | Tier 2   | 2019   | 114    | Tier 4 Final            | 420                  |                      |                     | 10 Fresno          |                   |
| C-54543-1-A1 | Wheel Loader         | Diesel    | 1976     | 100    | Tier 0   | 2019   | 100    | Tier 4 Final            | 300                  |                      |                     | 10 Merced          |                   |
| C-54545-1-A1 | Agricultural Tractor | Diesel    | 1969     | 58     | Tier 0   | 2016   | 58     | Tier 4 Final            | 300                  |                      |                     | 10 Merced          |                   |
| C-54585-1-A1 | Wheel Loader         | Diesel    | 2004     | 145    | Tier 2   | 2020   | 166    | Tier 4 Final            | 550                  |                      |                     | 10 Merced          |                   |
| C-54599-1-A1 | Agricultural Tractor | Diesel    | 1986     | 90     | Tier 0   | 2017   | 189    | Tier 4 Final            | 2000                 |                      |                     | 10 Fresno          |                   |
| C-54720-1-A1 | Wheel Loader         | Diesel    | 2001     | 235    | Tier 1   | 2020   | 307    | Tier 4 Final            | 2000                 |                      |                     | 10 Tulare          |                   |
| C-54726-1-A1 | Wheel Loader         | Diesel    | 1974     | 170    | Tier 0   | 2018   | 164    | Tier 4 Final            | 2000                 |                      |                     | 10 Tulare          |                   |
| C-54745-1-A1 | Agricultural Tractor | Diesel    | 1989     | 168    | Tier 0   | 2020   | 250    | Tier 4 Final            | 600                  |                      |                     | 10 Merced          |                   |
| C-54827-1-A1 | Agricultural Tractor | Diesel    | 2000     | 325    | Tier 2   | 2019   | 283    | Tier 4 Final            | 1000                 |                      |                     | 10 Kern            |                   |
| C-54888-1-A1 | Back Hoe             | Diesel    | 1971     | 57     | Tier 0   | 2020   | 74     | Tier 4 Final            | 200                  |                      |                     | 10 San Joaquin     |                   |
| C-54890-1-A1 | Agricultural Tractor | Diesel    | 1974     | 25     | Tier 0   | 2019   | 50     | Tier 4 Final            | 200                  |                      |                     | 10 San Joaquin     |                   |

## Description Vehicle Replacement

| Project #    | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| C-54894-1-A1 | Agricultural Tractor | Diesel    | 1967     | 114    | Tier 0   | 2019   | 106    | Tier 4 Final            | 375                  |                      |                     | 10 Stanislaus      |                   |
| C-54945-1-A1 | Agricultural Tractor | Diesel    | 2005     | 91     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 261                  |                      |                     | 10 Tulare          |                   |
| C-54955-1-A1 | Agricultural Tractor | Diesel    | 2001     | 90     | Tier 1   | 2017   | 100    | Tier 4 Final            | 1276                 |                      |                     | 10 Tulare          |                   |
| C-55266-1-A1 | Agricultural Tractor | Diesel    | 1974     | 42     | Tier 0   | 2019   | 74     | Tier 4 Final            | 250                  |                      |                     | 10 Stanislaus      |                   |
| C-55370-1-A1 | Agricultural Tractor | Diesel    | 2003     | 210    | Tier 2   | 2019   | 236    | Tier 4 Final            | 800                  |                      |                     | 10 Merced          |                   |
| C-55889-1-A1 | Wheel Loader         | Diesel    | 1986     | 123    | Tier 0   | 2019   | 164    | Tier 4 Final            | 1400                 |                      |                     | 10 Tulare          |                   |
| C-55950-1-A1 | Harvester            | Diesel    | 2007     | 757    | Tier 2   | 2017   | 617    | Tier 4 Final            | 700                  |                      |                     | 10 Tulare          |                   |
| C-55963-1-A1 | Agricultural Tractor | Diesel    | 1980     | 38     | Tier 0   | 2019   | 43     | Tier 4 Final            | 1000                 |                      |                     | 10 Kern            |                   |
| C-56287-1-A1 | Agricultural Tractor | Diesel    | 2001     | 202    | Tier 1   | 2020   | 236    | Tier 4 Final            | 2000                 |                      |                     | 10 Tulare          |                   |
| C-56638-1-A1 | Agricultural Tractor | Diesel    | 1979     | 410    | Tier 0   | 2020   | 123    | Tier 4 Final            | 1500                 |                      |                     | 10 Merced          |                   |
| C-56946-1-A1 | Agricultural Tractor | Diesel    | 1965     | 46     | Tier 0   | 2019   | 32     | Tier 4 Final            | 100                  |                      |                     | 10 Tulare          |                   |
| C-57022-1-A1 | Agricultural Tractor | Diesel    | 1986     | 77     | Tier 0   | 2018   | 115    | Tier 4 Final            | 400                  |                      |                     | 10 Merced          |                   |
| C-57065-1-A1 | Agricultural Tractor | Diesel    | 1979     | 37     | Tier 0   | 2018   | 31     | Tier 4 Final            | 250                  |                      |                     | 10 Fresno          |                   |
| C-57152-1-A1 | Wheel Loader         | Diesel    | 1990     | 135    | Tier 0   | 2018   | 139    | Tier 4 Final            | 1000                 |                      |                     | 10 Stanislaus      |                   |
| C-57154-1-A1 | Agricultural Tractor | Diesel    | 1990     | 100    | Tier 0   | 2019   | 106    | Tier 4 Final            | 800                  |                      |                     | 10 Stanislaus      |                   |
| C-57157-1-A1 | Wheel Loader         | Diesel    | 2000     | 170    | Tier 1   | 2019   | 183    | Tier 4 Final            | 2100                 |                      |                     | 10 Kern            |                   |
| C-57766-1-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2019   | 106    | Tier 4 Final            | 400                  |                      |                     | 10 Merced          |                   |
| C-57783-1-A1 | Agricultural Tractor | Diesel    | 1976     | 80     | Tier 0   | 2018   | 95     | Tier 4 Final            | 250                  |                      |                     | 10 Tulare          |                   |
| C-57825-1-A1 | Ag Siliage Bagger    | Diesel    | 1994     | 400    | Tier 0   | 2020   | 536    | Tier 4 Final            | 600                  |                      |                     | 10 Kings           |                   |
| C-57830-1-A1 | Agricultural Tractor | Diesel    | 1991     | 109    | Tier 0   | 2019   | 173    | Tier 4 Final            | 600                  |                      |                     | 10 San Joaquin     |                   |
| C-57831-1-A1 | Agricultural Tractor | Diesel    | 1991     | 94     | Tier 0   | 2019   | 153    | Tier 4 Final            | 600                  |                      |                     | 10 San Joaquin     |                   |
| C-57979-1-A1 | Forklift             | Diesel    | 2001     | 80     | Tier 1   | 2012   | 74     | Tier 4 Interim          | 200                  |                      |                     | 10 Kings           |                   |
| C-58285-1-A1 | Agricultural Tractor | Diesel    | 2005     | 99     | Tier 2   | 2020   | 130    | Tier 4 Final            | 500                  |                      |                     | 10 Fresno          |                   |
| C-58344-1-A1 | Agricultural Tractor | Diesel    | 1974     | 58     | Tier 0   | 2020   | 75     | Tier 4 Final            | 200                  |                      |                     | 10 Fresno          |                   |
| C-58492-1-A1 | Sprayer              | Diesel    | 2008     | 93     | Tier 2   | 2014   | 173    | Tier 4 Phase In/Alt NOx | 1000                 |                      |                     | 10 Kings           |                   |
| C-58495-1-A1 | Sprayer              | Diesel    | 2008     | 93     | Tier 2   | 2014   | 173    | Tier 4 Phase In/Alt NOx | 1000                 |                      |                     | 10 Kings           |                   |
| C-58499-1-A1 | Sprayer              | Diesel    | 2008     | 93     | Tier 2   | 2014   | 173    | Tier 4 Phase In/Alt NOx | 1000                 |                      |                     | 10 Kings           |                   |
| C-58832-1-A1 | Ag Siliage Bagger    | Diesel    | 1990     | 250    | Tier 0   | 2019   | 275    | Tier 4 Final            | 800                  |                      |                     | 10 San Joaquin     |                   |
| C-58835-1-A1 | Wheel Loader         | Diesel    | 2005     | 199    | Tier 2   | 2020   | 231    | Tier 4 Final            | 1500                 |                      |                     | 10 Madera          |                   |
| C-58849-1A   | Agricultural Tractor | Diesel    | 1968     | 115    | Tier 0   | 2019   | 123    | Tier 4 Final            | 500                  |                      |                     | 10 Fresno          |                   |
| C-59052-1-A1 | Agricultural Tractor | Diesel    | 1996     | 120    | Tier 0   | 2016   | 155    | Tier 4 Final            | 1200                 |                      |                     | 10 San Joaquin     |                   |

## Description Vehicle Replacement

| Project #    | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| C-59055-1-A1 | Agricultural Tractor | Diesel    | 1973     | 93     | Tier 0   | 2019   | 125    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| C-59056-1-A1 | Agricultural Tractor | Diesel    | 1993     | 180    | Tier 0   | 2019   | 245    | Tier 4 Final            | 1000                 |                      |                     | 10 San Joaquin     |                   |
| C-59229-1-A1 | Agricultural Tractor | Diesel    | 1965     | 140    | Tier 0   | 2019   | 175    | Tier 4 Final            | 1000                 |                      |                     | 10 San Joaquin     |                   |
| C-59251-1-A1 | Agricultural Tractor | Diesel    | 1964     | 130    | Tier 0   | 2019   | 175    | Tier 4 Final            | 1000                 |                      |                     | 10 San Joaquin     |                   |
| C-59651-1-A1 | Agricultural Tractor | Diesel    | 1984     | 83     | Tier 0   | 2019   | 114    | Tier 4 Final            | 1000                 |                      |                     | 10 San Joaquin     |                   |
| C-59669-1-A1 | Agricultural Tractor | Diesel    | 1968     | 76     | Tier 0   | 2020   | 73     | Tier 4 Final            | 250                  |                      |                     | 10 San Joaquin     |                   |
| C-59828-1-A1 | Agricultural Tractor | Diesel    | 2006     | 105    | Tier 2   | 2018   | 123    | Tier 4 Final            | 350                  |                      |                     | 10 Tulare          |                   |
| C-59843-1-A1 | Agricultural Tractor | Diesel    | 1978     | 44     | Tier 0   | 2019   | 55     | Tier 4 Final            | 225                  |                      |                     | 10 San Joaquin     |                   |
| C-60267-1-A1 | Agricultural Tractor | Diesel    | 1989     | 204    | Tier 0   | 2019   | 250    | Tier 4 Final            | 1800                 |                      |                     | 10 Fresno          |                   |
| C-60268-1-A1 | Agricultural Tractor | Diesel    | 1991     | 94     | Tier 0   | 2020   | 123    | Tier 4 Final            | 1800                 |                      |                     | 10 Fresno          |                   |
| C-60270-1-A1 | Agricultural Tractor | Diesel    | 1982     | 128    | Tier 0   | 2019   | 158    | Tier 4 Final            | 900                  |                      |                     | 10 Stanislaus      |                   |
| C-60280-1-A1 | Agricultural Tractor | Diesel    | 1993     | 96     | Tier 0   | 2019   | 114    | Tier 4 Final            | 400                  |                      |                     | 10 Stanislaus      |                   |
| C-60313-1-A1 | Agricultural Tractor | Diesel    | 1992     | 103    | Tier 0   | 2019   | 114    | Tier 4 Final            | 400                  |                      |                     | 10 Stanislaus      |                   |
| C-60395-1-A1 | Agricultural Tractor | Diesel    | 1996     | 97     | Tier 0   | 2018   | 125    | Tier 4 Final            | 900                  |                      |                     | 10 Tulare          |                   |
| C-60396-1-A1 | Agricultural Tractor | Diesel    | 1996     | 97     | Tier 0   | 2019   | 115    | Tier 4 Final            | 900                  |                      |                     | 10 Tulare          |                   |
| C-60397-1-A1 | Shaker               | Diesel    | 2001     | 125    | Tier 1   | 2019   | 174    | Tier 4 Final            | 600                  |                      |                     | 10 Stanislaus      |                   |
| C-60446-1-A1 | Agricultural Tractor | Diesel    | 2006     | 113    | Tier 2   | 2019   | 123    | Tier 4 Final            | 1000                 |                      |                     | 10 Fresno          |                   |
| C-60447-1-A1 | Agricultural Tractor | Diesel    | 2000     | 114    | Tier 1   | 2019   | 123    | Tier 4 Final            | 1000                 |                      |                     | 10 Fresno          |                   |
| C-60748-1-A1 | Agricultural Tractor | Diesel    | 1974     | 58     | Tier 0   | 2020   | 106    | Tier 4 Phase In/Alt NOx | 475                  |                      |                     | 10 Fresno          |                   |
| C-60793-1-A1 | Wheel Loader         | Diesel    | 2007     | 160    | Tier 2   | 2020   | 192    | Tier 4 Final            | 1800                 |                      |                     | 10 Tulare          |                   |
| C-60847-1-A1 | Almond Shaker        | Diesel    | 2005     | 155    | Tier 2   | 2020   | 174    | Tier 4 Final            | 600                  |                      |                     | 10 San Joaquin     |                   |
| C-60849-1-A1 | Almond Shaker        | Diesel    | 2006     | 155    | Tier 2   | 2020   | 174    | Tier 4 Final            | 600                  |                      |                     | 10 San Joaquin     |                   |
| C-60881-1-A1 | Agricultural Tractor | Diesel    | 1983     | 168    | Tier 0   | 2019   | 123    | Tier 4 Final            | 250                  |                      |                     | 10 Fresno          |                   |
| C-60888-1-A1 | Agricultural Tractor | Diesel    | 1990     | 100    | Tier 0   | 2019   | 114    | Tier 4 Final            | 250                  |                      |                     | 10 Madera          |                   |
| C-60906-1-A1 | Forklift             | Diesel    | 2002     | 46     | Tier 1   | 2019   | 57     | Tier 4 Final            | 320                  |                      |                     | 10 Tulare          |                   |
| C-60914-1-A1 | Agricultural Tractor | Diesel    | 2001     | 110    | Tier 1   | 2019   | 114    | Tier 4 Final            | 320                  |                      |                     | 10 Tulare          |                   |
| C-60948-1-A1 | Agricultural Tractor | Diesel    | 1975     | 354    | Tier 0   | 2019   | 420    | Tier 4 Final            | 320                  |                      |                     | 10 Tulare          |                   |
| C-60963-1-A1 | Forklift             | Diesel    | 2002     | 46     | Tier 1   | 2019   | 57     | Tier 4 Final            | 320                  |                      |                     | 10 Tulare          |                   |
| C-60987-1-A1 | Wheel Loader         | Diesel    | 1969     | 104    | Tier 0   | 2019   | 152    | Tier 4 Final            | 900                  |                      |                     | 10 Fresno          |                   |
| C-60992-1-A1 | Agricultural Tractor | Diesel    | 1998     | 118    | Tier 1   | 2019   | 139    | Tier 4 Final            | 900                  |                      |                     | 10 Stanislaus      |                   |
| C-61087-1-A1 | Agricultural Tractor | Diesel    | 1981     | 30     | Tier 0   | 2019   | 66     | Tier 4 Final            | 500                  |                      |                     | 10 Kings           |                   |

## Description Vehicle Replacement

| Project #    | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| C-61145-1-A1 | Agricultural Tractor | Diesel    | 2003     | 283    | Tier 2   | 2020   | 250    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Kings             |
| C-61455-1-A1 | Spreader             | Diesel    | 1999     | 300    | Tier 1   | 2018   | 340    | Tier 4 Final            | 500                  |                      |                     | 10                 | Madera            |
| C-61535-1-A1 | Agricultural Tractor | Diesel    | 2001     | 222    | Tier 1   | 2020   | 626    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Merced            |
| C-61544-1-A1 | Agricultural Tractor | Diesel    | 2000     | 90     | Tier 1   | 2019   | 110    | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| C-61545-1-A1 | Agricultural Tractor | Diesel    | 2005     | 105    | Tier 2   | 2020   | 105    | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| C-61546-1-A1 | Agricultural Tractor | Diesel    | 1983     | 102    | Tier 0   | 2019   | 120    | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| C-61548-1-A1 | Agricultural Tractor | Diesel    | 2005     | 105    | Tier 2   | 2019   | 105    | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| C-61556-1-A1 | Agricultural Tractor | Diesel    | 1998     | 81     | Tier 1   | 2020   | 89     | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| C-61601-1-A1 | Agricultural Tractor | Diesel    | 1984     | 94     | Tier 0   | 2020   | 106    | Tier 4 Phase In/Alt NOx | 250                  |                      |                     | 10                 | Fresno            |
| C-61614-1-A1 | Agricultural Tractor | Diesel    | 2003     | 199    | Tier 2   | 2020   | 155    | Tier 4 Final            | 800                  |                      |                     | 10                 | Merced            |
| C-61615-1-A1 | Agricultural Tractor | Diesel    | 2003     | 117    | Tier 2   | 2020   | 155    | Tier 4 Final            | 800                  |                      |                     | 10                 | Merced            |
| C-61616-1-A1 | Agricultural Tractor | Diesel    | 2000     | 104    | Tier 1   | 2020   | 155    | Tier 4 Final            | 800                  |                      |                     | 10                 | Merced            |
| C-61617-1-A1 | Agricultural Tractor | Diesel    | 1994     | 120    | Tier 0   | 2020   | 155    | Tier 4 Final            | 800                  |                      |                     | 10                 | Merced            |
| C-61618-1-A1 | Agricultural Tractor | Diesel    | 1995     | 120    | Tier 0   | 2020   | 155    | Tier 4 Final            | 800                  |                      |                     | 10                 | Merced            |
| C-61619-1-A1 | Agricultural Tractor | Diesel    | 1974     | 151    | Tier 0   | 2020   | 155    | Tier 4 Final            | 800                  |                      |                     | 10                 | Merced            |
| C-61620-1-A1 | Agricultural Tractor | Diesel    | 1984     | 102    | Tier 0   | 2020   | 155    | Tier 4 Final            | 800                  |                      |                     | 10                 | Merced            |
| C-61626-1-A1 | Agricultural Tractor | Diesel    | 2004     | 29     | Tier 2   | 2020   | 40     | Tier 4 Final            | 1100                 |                      |                     | 10                 | Stanislaus        |
| C-61665-1-A1 | Agricultural Tractor | Diesel    | 1989     | 63     | Tier 0   | 2020   | 115    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Fresno            |
| C-61728-1-A1 | Agricultural Tractor | Diesel    | 1999     | 92     | Tier 1   | 2020   | 114    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Fresno            |
| C-61858-1-A1 | Agricultural Tractor | Diesel    | 2004     | 86     | Tier 2   | 2019   | 52     | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| C-61859-1-A1 | Agricultural Tractor | Diesel    | 2004     | 29     | Tier 1   | 2018   | 52     | Tier 4 Final            | 315                  |                      |                     | 10                 | Kern              |
| C-61860-1-A1 | Agricultural Tractor | Diesel    | 2007     | 51     | Tier 2   | 2019   | 52     | Tier 4 Final            | 319                  |                      |                     | 10                 | Tulare            |
| C-61861-1-A1 | Agricultural Tractor | Diesel    | 2007     | 51     | Tier 2   | 2019   | 55     | Tier 4 Final            | 700                  |                      |                     | 10                 | Kern              |
| C-61862-1-A1 | Agricultural Tractor | Diesel    | 2007     | 51     | Tier 2   | 2018   | 52     | Tier 4 Final            | 288                  |                      |                     | 10                 | Tulare            |
| C-61863-1-A1 | Agricultural Tractor | Diesel    | 1995     | 84     | Tier 0   | 2019   | 52     | Tier 4 Final            | 43                   |                      |                     | 10                 | Tulare            |
| C-61864-1-A1 | Agricultural Tractor | Diesel    | 2004     | 92     | Tier 2   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 886                  |                      |                     | 10                 | Kern              |
| C-61866-1-A1 | Agricultural Tractor | Diesel    | 2001     | 29     | Tier 1   | 2018   | 52     | Tier 4 Final            | 500                  |                      |                     | 10                 | Kern              |
| C-61867-1-A1 | Agricultural Tractor | Diesel    | 2001     | 29     | Tier 1   | 2018   | 52     | Tier 4 Final            | 500                  |                      |                     | 10                 | Kern              |
| C-61868-1-A1 | Agricultural Tractor | Diesel    | 2002     | 73     | Tier 1   | 2018   | 52     | Tier 4 Final            | 601                  |                      |                     | 10                 | Tulare            |
| C-61869-1-A1 | Agricultural Tractor | Diesel    | 2004     | 51     | Tier 2   | 2018   | 52     | Tier 4 Final            | 434                  |                      |                     | 10                 | Kern              |
| C-62030-1-A1 | Agricultural Tractor | Diesel    | 2004     | 51     | Tier 2   | 2019   | 52     | Tier 4 Final            | 779                  |                      |                     | 10                 | Kern              |

## Description Vehicle Replacement

| Project #    | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| C-62056-1-A1 | Agricultural Tractor | Diesel    | 2005     | 259    | Tier 2   | 2018   | 245    | Tier 4 Final            | 2500                 |                      |                     | 10                 | Kern              |
| C-62070-1-A1 | Agricultural Tractor | Diesel    | 2004     | 259    | Tier 2   | 2019   | 245    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Kern              |
| C-62198-1-A1 | Agricultural Tractor | Diesel    | 1996     | 350    | Tier 1   | 2020   | 545    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Merced            |
| C-62202-1-A1 | Agricultural Tractor | Diesel    | 1994     | 400    | Tier 0   | 2018   | 550    | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| C-62219-1-A1 | Back Hoe             | Diesel    | 1998     | 84     | Tier 1   | 2020   | 68     | Tier 4 Final            | 1500                 |                      |                     | 10                 | Kern              |
| C-62347-1-A1 | Agricultural Tractor | Diesel    | 1975     | 151    | Tier 0   | 2019   | 123    | Tier 4 Final            | 800                  |                      |                     | 10                 | Fresno            |
| C-62489-1-A1 | Agricultural Tractor | Diesel    | 1986     | 192    | Tier 0   | 2016   | 276    | Tier 4 Final            | 700                  |                      |                     | 10                 | Kings             |
| C-62543-1-A1 | Agricultural Tractor | Diesel    | 2006     | 91     | Tier 2   | 2019   | 74     | Tier 4 Final            | 2400                 |                      |                     | 10                 | Kern              |
| C-62546-1-A1 | Agricultural Tractor | Diesel    | 2006     | 91     | Tier 2   | 2019   | 74     | Tier 4 Final            | 2400                 |                      |                     | 10                 | Kern              |
| C-62566-1-A1 | Agricultural Tractor | Diesel    | 2002     | 114    | Tier 1   | 2018   | 74     | Tier 4 Final            | 2400                 |                      |                     | 10                 | Kern              |
| C-62571-1-A1 | Agricultural Tractor | Diesel    | 2000     | 114    | Tier 1   | 2018   | 74     | Tier 4 Final            | 2400                 |                      |                     | 10                 | Kern              |
| C-62575-1-A1 | Agricultural Tractor | Diesel    | 1997     | 102    | Tier 1   | 2018   | 74     | Tier 4 Final            | 2400                 |                      |                     | 10                 | Kern              |
| C-62577-1-A1 | Agricultural Tractor | Diesel    | 2005     | 91     | Tier 2   | 2018   | 74     | Tier 4 Final            | 2400                 |                      |                     | 10                 | Kern              |
| C-62583-1-A1 | Agricultural Tractor | Diesel    | 1991     | 109    | Tier 0   | 2019   | 101    | Tier 4 Final            | 720                  |                      |                     | 10                 | Merced            |
| C-62666-1-A1 | Agricultural Tractor | Diesel    | 2004     | 71     | Tier 1   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 2378                 |                      |                     | 10                 | Tulare            |
| C-62673-1-A1 | Agricultural Tractor | Diesel    | 2004     | 71     | Tier 1   | 2017   | 98     | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10                 | Kern              |
| C-62686-1-A1 | Agricultural Tractor | Diesel    | 1978     | 84     | Tier 0   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Stanislaus        |
| C-62737-1-A1 | Conveyor             | Diesel    | 1985     | 80     | Tier 0   | 2019   | 74     | Tier 4 Final            | 400                  |                      |                     | 10                 | Stanislaus        |
| C-62740-1-A1 | Agricultural Tractor | Diesel    | 1992     | 84     | Tier 0   | 2019   | 115    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Fresno            |
| C-62757-1-A1 | Sprayer              | Diesel    | 2005     | 200    | Tier 2   | 2018   | 115    | Tier 4 Final            | 500                  |                      |                     | 10                 | Kern              |
| C-62809-1-A1 | Agricultural Tractor | Diesel    | 1990     | 77     | Tier 0   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Stanislaus        |
| C-62810-1-A1 | Agricultural Tractor | Diesel    | 1974     | 84     | Tier 0   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Stanislaus        |
| C-62912-1-A1 | Wheel Loader         | Diesel    | 1971     | 130    | Tier 0   | 2018   | 157    | Tier 4 Final            | 2920                 |                      |                     | 10                 | Tulare            |
| C-62917-1-A1 | Skid Loader          | Diesel    | 2000     | 74     | Tier 1   | 2019   | 74     | Tier 4 Final            | 650                  |                      |                     | 10                 | San Joaquin       |
| C-62938-1-A1 | Sprayer              | Diesel    | 2007     | 93     | Tier 2   | 2014   | 173    | Tier 4 Phase In/Alt NOx | 1000                 |                      |                     | 10                 | Kings             |
| C-62973-1-A1 | Skid Loader          | Diesel    | 2004     | 49     | Tier 2   | 2020   | 73     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kings             |
| C-63008-1-A1 | Agricultural Tractor | Diesel    | 1981     | 45     | Tier 0   | 2019   | 58     | Tier 4 Final            | 300                  |                      |                     | 10                 | Fresno            |
| C-63048-1-A1 | Agricultural Tractor | Diesel    | 2006     | 258    | Tier 2   | 2020   | 410    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Stanislaus        |
| C-63113-1-A1 | Agricultural Tractor | Diesel    | 1997     | 120    | Tier 1   | 2020   | 155    | Tier 4 Final            | 500                  |                      |                     | 10                 | Kings             |
| C-63168-1-A1 | Wheel Loader         | Diesel    | 2003     | 111    | Tier 2   | 2019   | 139    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Stanislaus        |
| C-63198-1-A1 | Almond Shaker        | Diesel    | 1993     | 115    | Tier 0   | 2020   | 139    | Tier 4 Final            | 550                  |                      |                     | 10                 | Fresno            |

## Description Vehicle Replacement

| Project #    | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| C-63295-1-A1 | Agricultural Tractor | Diesel    | 1990     | 110    | Tier 0   | 2019   | 155    | Tier 4 Final            | 700                  |                      |                     | 10                 | Kern              |
| C-63318-1-A1 | Agricultural Tractor | Diesel    | 1984     | 63     | Tier 0   | 2019   | 73     | Tier 4 Final            | 1920                 |                      |                     | 10                 | Merced            |
| C-63339-1-A1 | Wheel Loader         | Diesel    | 1999     | 135    | Tier 1   | 2020   | 166    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Tulare            |
| C-63344-1-A1 | Shaker               | Diesel    | 1998     | 150    | Tier 1   | 2020   | 139    | Tier 4 Final            | 400                  |                      |                     | 10                 | Fresno            |
| C-63476-1-A1 | Almond Shaker        | Diesel    | 1995     | 115    | Tier 0   | 2020   | 174    | Tier 4 Final            | 300                  |                      |                     | 10                 | Fresno            |
| C-63477-1-A1 | Almond Shaker        | Diesel    | 1998     | 125    | Tier 1   | 2020   | 174    | Tier 4 Final            | 300                  |                      |                     | 10                 | Fresno            |
| C-63478-1-A1 | Almond Shaker        | Diesel    | 1999     | 125    | Tier 1   | 2020   | 174    | Tier 4 Final            | 300                  |                      |                     | 10                 | Fresno            |
| C-63512-1-A1 | Sprayer              | Diesel    | 2007     | 93     | Tier 2   | 2014   | 173    | Tier 4 Phase In/Alt NOx | 1000                 |                      |                     | 10                 | Kings             |
| C-63517-1-A1 | Agricultural Tractor | Diesel    | 1994     | 95     | Tier 0   | 2020   | 119    | Tier 4 Final            | 480                  |                      |                     | 10                 | Kings             |
| C-63570-1-A1 | Agricultural Tractor | Diesel    | 1988     | 198    | Tier 0   | 2020   | 210    | Tier 4 Final            | 842                  |                      |                     | 10                 | Kings             |
| C-63611-1-A1 | Cotton Picker        | Diesel    | 2002     | 325    | Tier 1   | 2019   | 560    | Tier 4 Final            | 750                  |                      |                     | 10                 | Kings             |
| C-63611-1-A1 | Cotton Picker        | Diesel    | 2004     | 325    | Tier 1   |        |        |                         |                      |                      |                     |                    | Kings             |
| C-63614-1-A1 | Agricultural Tractor | Diesel    | 1997     | 135    | Tier 1   | 2019   | 100    | Tier 4 Final            | 750                  |                      |                     | 10                 | Kings             |
| C-63623-1-A1 | Agricultural Tractor | Diesel    | 2001     | 175    | Tier 1   | 2020   | 230    | Tier 4 Final            | 750                  |                      |                     | 10                 | Kings             |
| C-63649-1-A1 | Agricultural Tractor | Diesel    | 1998     | 270    | Tier 1   | 2020   | 310    | Tier 4 Final            | 750                  |                      |                     | 10                 | Kings             |
| C-63677-1-A1 | Shaker               | Diesel    | 1998     | 125    | Tier 1   | 2019   | 174    | Tier 4 Final            | 1600                 |                      |                     | 10                 | Madera            |
| C-63686-1-A1 | Shaker               | Diesel    | 2000     | 125    | Tier 1   | 2019   | 174    | Tier 4 Final            | 1600                 |                      |                     | 10                 | Madera            |
| C-63688-1-A1 | Shaker               | Diesel    | 2000     | 125    | Tier 1   | 2019   | 174    | Tier 4 Final            | 1600                 |                      |                     | 10                 | Madera            |
| C-63695-1-A1 | Agricultural Tractor | Diesel    | 1990     | 280    | Tier 0   | 2020   | 545    | Tier 4 Final            | 300                  |                      |                     | 10                 | Merced            |
| C-63718-1-A1 | Shaker               | Diesel    | 1998     | 125    | Tier 1   | 2019   | 174    | Tier 4 Final            | 1600                 |                      |                     | 10                 | Madera            |
| C-63732-1-A1 | Agricultural Tractor | Diesel    | 2003     | 425    | Tier 2   | 2020   | 626    | Tier 4 Final            | 450                  |                      |                     | 10                 | Merced            |
| C-63736-1-A1 | Agricultural Tractor | Diesel    | 1976     | 75     | Tier 0   | 2019   | 114    | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| C-63781-1-A1 | Agricultural Tractor | Diesel    | 2005     | 283    | Tier 2   | 2019   | 400    | Tier 4 Final            | 1400                 |                      |                     | 10                 | Kings             |
| C-63785-1-A1 | Agricultural Tractor | Diesel    | 2005     | 259    | Tier 2   | 2018   | 375    | Tier 4 Final            | 1400                 |                      |                     | 10                 | Kings             |
| C-63798-1-A1 | Agricultural Tractor | Diesel    | 2005     | 231    | Tier 2   | 2018   | 311    | Tier 4 Final            | 1400                 |                      |                     | 10                 | Kings             |
| C-63800-1-A1 | Agricultural Tractor | Diesel    | 2005     | 231    | Tier 2   | 2019   | 311    | Tier 4 Final            | 1400                 |                      |                     | 10                 | Kings             |
| C-63911-1-A1 | Agricultural Tractor | Diesel    | 2006     | 98     | Tier 2   | 2020   | 106    | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| C-63939-1-A1 | Forklift             | Diesel    | 2004     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final            | 500                  |                      |                     | 10                 | San Joaquin       |
| C-64013-1-A1 | Wheel Loader         | Diesel    | 2001     | 110    | Tier 1   | 2018   | 153    | Tier 4 Final            | 2100                 |                      |                     | 10                 | Merced            |
| C-64024-1-A1 | Wheel Loader         | Diesel    | 2000     | 125    | Tier 1   | 2019   | 112    | Tier 4 Final            | 2500                 |                      |                     | 10                 | Merced            |
| C-64166-1-A1 | Agricultural Tractor | Diesel    | 1976     | 48     | Tier 0   | 2019   | 73     | Tier 4 Final            | 500                  |                      |                     | 10                 | Stanislaus        |

## Description Vehicle Replacement

| Project #    | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| C-64184-1-A1 | Agricultural Tractor | Diesel    | 1998     | 91     | Tier 1   | 2019   | 114    | Tier 4 Final            | 500                  |                      |                     | 10 Stanislaus      |                   |
| C-64213-1-A1 | Wheel Loader         | Diesel    | 1993     | 150    | Tier 0   | 2020   | 170    | Tier 4 Final            | 2800                 |                      |                     | 10 Stanislaus      |                   |
| C-64230-1-A1 | Sweeper              | Diesel    | 2003     | 80     | Tier 1   | 2019   | 74     | Tier 4 Final            | 400                  |                      |                     | 10 Tulare          |                   |
| C-64294-1-A1 | Agricultural Tractor | Diesel    | 1996     | 108    | Tier 1   | 2019   | 114    | Tier 4 Final            | 250                  |                      |                     | 10 Fresno          |                   |
| C-64299-1-A1 | Agricultural Tractor | Diesel    | 1966     | 96     | Tier 0   | 2019   | 114    | Tier 4 Final            | 250                  |                      |                     | 10 Fresno          |                   |
| C-64312-1-A1 | Agricultural Tractor | Diesel    | 1985     | 139    | Tier 0   | 2017   | 115    | Tier 4 Final            | 500                  |                      |                     | 10 Merced          |                   |
| C-64325-1-A1 | Agricultural Tractor | Diesel    | 1975     | 103    | Tier 0   | 2018   | 115    | Tier 4 Final            | 500                  |                      |                     | 10 Merced          |                   |
| C-64339-1-A1 | Agricultural Tractor | Diesel    | 1993     | 156    | Tier 0   | 2019   | 115    | Tier 4 Final            | 500                  |                      |                     | 10 Merced          |                   |
| C-64344-1-A1 | Agricultural Tractor | Diesel    | 1979     | 69     | Tier 0   | 2018   | 98     | Tier 4 Final            | 600                  |                      |                     | 10 Fresno          |                   |
| C-64351-1-A1 | Wheel Loader         | Diesel    | 1988     | 110    | Tier 0   | 2020   | 148    | Tier 4 Final            | 2000                 |                      |                     | 10 Tulare          |                   |
| C-64352-1-A1 | Wheel Loader         | Diesel    | 1987     | 110    | Tier 0   | 2020   | 148    | Tier 4 Final            | 2000                 |                      |                     | 10 Tulare          |                   |
| C-64354-1-A1 | Wheel Loader         | Diesel    | 1990     | 135    | Tier 0   | 2019   | 164    | Tier 4 Final            | 2000                 |                      |                     | 10 Tulare          |                   |
| C-64369-1-A1 | Wheel Loader         | Diesel    | 1989     | 110    | Tier 0   | 2019   | 148    | Tier 4 Final            | 2000                 |                      |                     | 10 Tulare          |                   |
| C-64372-1-A1 | Wheel Loader         | Diesel    | 1989     | 110    | Tier 0   | 2019   | 148    | Tier 4 Final            | 2000                 |                      |                     | 10 Tulare          |                   |
| C-64375-1-A1 | Wheel Loader         | Diesel    | 1993     | 120    | Tier 0   | 2020   | 148    | Tier 4 Final            | 2000                 |                      |                     | 10 Tulare          |                   |
| C-64376-1-A1 | Agricultural Tractor | Diesel    | 1990     | 156    | Tier 0   | 2017   | 115    | Tier 4 Final            | 500                  |                      |                     | 10 Merced          |                   |
| C-64405-1-A1 | Agricultural Tractor | Diesel    | 2005     | 98     | Tier 2   | 2020   | 123    | Tier 4 Final            | 1800                 |                      |                     | 10 Kings           |                   |
| C-64408-1-A1 | Agricultural Tractor | Diesel    | 2001     | 53     | Tier 1   | 2020   | 50     | Tier 4 Final            | 1400                 |                      |                     | 10 Kings           |                   |
| C-64411-1-A1 | Agricultural Tractor | Diesel    | 1993     | 102    | Tier 0   | 2019   | 115    | Tier 4 Final            | 1500                 |                      |                     | 10 Fresno          |                   |
| C-64413-1-A1 | Wheel Tractor        | Diesel    | 2001     | 53     | Tier 1   | 2020   | 50     | Tier 4 Final            | 1400                 |                      |                     | 10 Kings           |                   |
| C-64438-1-A1 | Agricultural Tractor | Diesel    | 1985     | 63     | Tier 0   | 2019   | 74     | Tier 4 Final            | 400                  |                      |                     | 10 San Joaquin     |                   |
| C-64439-1-A1 | Agricultural Tractor | Diesel    | 1969     | 84     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 250                  |                      |                     | 10 San Joaquin     |                   |
| C-64449-1-A1 | Wheel Loader         | Diesel    | 1979     | 100    | Tier 0   | 2019   | 115    | Tier 4 Final            | 1000                 |                      |                     | 10 Tulare          |                   |
| C-64467-1-A1 | Other Agricultural   | Diesel    | 2005     | 860    | Tier 1   | 2019   | 1050   | Tier 4 Final            | 1500                 |                      |                     | 10 San Joaquin     |                   |
| C-64508-1-A1 | Swathers             | Diesel    | 2004     | 186    | Tier 2   | 2016   | 225    | Tier 4 Final            | 500                  |                      |                     | 10 Stanislaus      |                   |
| C-64510-1-A1 | Agricultural Tractor | Diesel    | 1974     | 192    | Tier 0   | 2020   | 233    | Tier 4 Final            | 400                  |                      |                     | 10 Kern            |                   |
| C-64515-1-A1 | Wheel Loader         | Diesel    | 1994     | 120    | Tier 0   | 2020   | 164    | Tier 4 Final            | 425                  |                      |                     | 10 Merced          |                   |
| C-64595-1-A1 | Agricultural Tractor | Diesel    | 1981     | 84     | Tier 0   | 2020   | 114    | Tier 4 Final            | 950                  |                      |                     | 10 Merced          |                   |
| C-64626-1-A1 | Agricultural Tractor | Diesel    | 2006     | 86     | Tier 2   | 2019   | 115    | Tier 4 Final            | 500                  |                      |                     | 10 Tulare          |                   |
| C-64643-1-A1 | Wheel Loader         | Diesel    | 1990     | 110    | Tier 0   | 2019   | 164    | Tier 4 Final            | 1100                 |                      |                     | 10 Fresno          |                   |
| C-64723-1-A1 | Agricultural Tractor | Diesel    | 2005     | 55     | Tier 2   | 2018   | 73     | Tier 4 Final            | 500                  |                      |                     | 10 Fresno          |                   |



## Description Vehicle Replacement

| Project #    | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| C-64774-1-A1 | Agricultural Tractor | Diesel    | 1983     | 216    | Tier 0   | 2020   | 123    | Tier 4 Final | 100                  |                      |                     | 10                 | Madera            |
| C-64909-1-A1 | Agricultural Tractor | Diesel    | 1966     | 79     | Tier 0   | 2019   | 100    | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| C-64914-1-A1 | Agricultural Tractor | Diesel    | 1981     | 84     | Tier 0   | 2020   | 67     | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| C-64938-1-A1 | Agricultural Tractor | Diesel    | 1976     | 80     | Tier 0   | 2020   | 67     | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| C-64939-1-A1 | Agricultural Tractor | Diesel    | 1979     | 76     | Tier 0   | 2019   | 52     | Tier 4 Final | 600                  |                      |                     | 10                 | Fresno            |
| C-64948-1-A1 | Wheel Loader         | Diesel    | 1995     | 125    | Tier 0   | 2018   | 166    | Tier 4 Final | 1200                 |                      |                     | 10                 | Tulare            |
| C-64961-1-A1 | Agricultural Tractor | Diesel    | 1979     | 84     | Tier 0   | 2020   | 67     | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| C-64978-1-A1 | Agricultural Tractor | Diesel    | 1980     | 80     | Tier 0   | 2020   | 67     | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| C-64992-1-A1 | Agricultural Tractor | Diesel    | 1997     | 99     | Tier 0   | 2020   | 90     | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| C-65005-1-A1 | Agricultural Tractor | Diesel    | 1984     | 67     | Tier 0   | 2017   | 106    | Tier 4 Final | 250                  |                      |                     | 10                 | Stanislaus        |
| C-65070-1-A1 | Agricultural Tractor | Diesel    | 1982     | 84     | Tier 0   | 2020   | 115    | Tier 4 Final | 800                  |                      |                     | 10                 | Fresno            |
| C-65179-1-A1 | Agricultural Tractor | Diesel    | 2006     | 112    | Tier 2   | 2019   | 123    | Tier 4 Final | 420                  |                      |                     | 10                 | Fresno            |
| C-65181-1-A1 | Agricultural Tractor | Diesel    | 2006     | 112    | Tier 2   | 2019   | 123    | Tier 4 Final | 506                  |                      |                     | 10                 | Fresno            |
| C-65206-1-A1 | Wheel Loader         | Diesel    | 1992     | 105    | Tier 0   | 2019   | 165    | Tier 4 Final | 1000                 |                      |                     | 10                 | Stanislaus        |
| C-65209-1-A1 | Agricultural Tractor | Diesel    | 2002     | 231    | Tier 1   | 2018   | 281    | Tier 4 Final | 1500                 |                      |                     | 10                 | Madera            |
| C-65214-1-A1 | Agricultural Tractor | Diesel    | 1992     | 105    | Tier 0   | 2019   | 120    | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| C-65230-1-A1 | Tractor              | Diesel    | 2002     | 98     | Tier 1   | 2019   | 114    | Tier 4 Final | 600                  |                      |                     | 10                 | Stanislaus        |
| C-65250-1-A1 | Agricultural Tractor | Diesel    | 1999     | 88     | Tier 1   | 2018   | 90     | Tier 4 Final | 1200                 |                      |                     | 10                 | Kern              |
| C-65268-1-A1 | Shaker               | Diesel    | 2004     | 115    | Tier 2   | 2020   | 174    | Tier 4 Final | 800                  |                      |                     | 10                 | Fresno            |
| C-65318-1-A1 | Sweeper              | Diesel    | 1986     | 74     | Tier 0   | 2019   | 74     | Tier 4 Final | 400                  |                      |                     | 10                 | Kern              |
| C-65337-1-A1 | Wheel Loader         | Diesel    | 2007     | 160    | Tier 2   | 2020   | 192    | Tier 4 Final | 2000                 |                      |                     | 10                 | Stanislaus        |
| C-65341-1-A1 | Harvester            | Diesel    | 1981     | 70     | Tier 0   | 2020   | 174    | Tier 4 Final | 600                  |                      |                     | 10                 | Madera            |
| C-65348-1-A1 | Harvester            | Diesel    | 1986     | 70     | Tier 0   | 2020   | 174    | Tier 4 Final | 600                  |                      |                     | 10                 | Madera            |
| C-65380-1-A1 | Almond Shaker        | Diesel    | 1986     | 104    | Tier 0   | 2018   | 74     | Tier 4 Final | 400                  |                      |                     | 10                 | Kern              |
| C-65381-1-A1 | Tractor              | Diesel    | 1977     | 67     | Tier 0   | 2020   | 73     | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| C-65382-1-A1 | Agricultural Tractor | Diesel    | 1993     | 115    | Tier 0   | 2018   | 114    | Tier 4 Final | 2000                 |                      |                     | 10                 | Stanislaus        |
| G-100447-A1  | Agricultural Tractor | Diesel    | 2005     | 113    | Tier 2   | 2020   | 123    | Tier 4 Final | 1000                 |                      |                     | 10                 | Kern              |
| G-101499-A1  | Sweeper              | Diesel    | 2002     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 800                  |                      |                     | 10                 | Kern              |
| G-101505-A1  | Sweeper              | Diesel    | 2008     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 800                  |                      |                     | 10                 | Kern              |
| G-65417-A1   | Agricultural Tractor | Diesel    | 1985     | 81     | Tier 0   | 2015   | 93     | Tier 4 Final | 2000                 |                      |                     | 10                 | Stanislaus        |
| G-65437-A1   | Skid Loader          | Diesel    | 2005     | 56     | Tier 2   | 2016   | 63     | Tier 4 Final | 2000                 |                      |                     | 10                 | Stanislaus        |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-65444-A1 | Agricultural Tractor | Diesel    | 1986     | 69     | Tier 0   | 2015   | 93     | Tier 4 Final            | 2000                 |                      |                     | 10 Stanislaus      |                   |
| G-65452-A1 | Wheel Loader         | Diesel    | 2005     | 196    | Tier 2   | 2020   | 249    | Tier 4 Final            | 2000                 |                      |                     | 10 Stanislaus      |                   |
| G-65465-A1 | Wheel Loader         | Diesel    | 1991     | 85     | Tier 0   | 2019   | 68     | Tier 4 Final            | 2000                 |                      |                     | 10 Stanislaus      |                   |
| G-65470-A1 | Excavator            | Diesel    | 2002     | 181    | Tier 1   | 2020   | 159    | Tier 4 Final            | 2000                 |                      |                     | 10 Stanislaus      |                   |
| G-65656-A1 | Wheel Loader         | Diesel    | 1995     | 150    | Tier 0   | 2020   | 192    | Tier 4 Final            | 2300                 |                      |                     | 10 Kern            |                   |
| G-65774-A1 | Wheel Loader         | Diesel    | 2005     | 259    | Tier 2   | 2018   | 316    | Tier 4 Final            | 1000                 |                      |                     | 10 Merced          |                   |
| G-65775-A1 | Agricultural Tractor | Diesel    | 1981     | 45     | Tier 0   | 2019   | 58     | Tier 4 Final            | 400                  |                      |                     | 10 Stanislaus      |                   |
| G-65777-A1 | Agricultural Tractor | Diesel    | 1994     | 234    | Tier 0   | 2020   | 248    | Tier 4 Final            | 500                  |                      |                     | 10 Stanislaus      |                   |
| G-65779-A1 | Agricultural Tractor | Diesel    | 2001     | 75     | Tier 1   | 2018   | 93     | Tier 4 Final            | 1895                 |                      |                     | 10 Merced          |                   |
| G-65788-A1 | Chopper              | Diesel    | 2013     | 758    | Tier 2   | 2019   | 912    | Tier 4 Final            | 800                  |                      |                     | 10 Merced          |                   |
| G-65793-A1 | Agricultural Tractor | Diesel    | 1999     | 110    | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 250                  |                      |                     | 10 Fresno          |                   |
| G-65794-A1 | Wheel Loader         | Diesel    | 2005     | 288    | Tier 2   | 2019   | 316    | Tier 4 Final            | 1250                 |                      |                     | 10 Stanislaus      |                   |
| G-65797-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65798-A1 | Agricultural Tractor | Diesel    | 2002     | 73     | Tier 1   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65799-A1 | Agricultural Tractor | Diesel    | 2002     | 98     | Tier 1   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65800-A1 | Agricultural Tractor | Diesel    | 2005     | 98     | Tier 2   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65801-A1 | Agricultural Tractor | Diesel    | 2003     | 73     | Tier 1   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65802-A1 | Agricultural Tractor | Diesel    | 1976     | 50     | Tier 0   | 2019   | 73     | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65803-A1 | Agricultural Tractor | Diesel    | 1992     | 81     | Tier 0   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65804-A1 | Agricultural Tractor | Diesel    | 2008     | 99     | Tier 2   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65805-A1 | Agricultural Tractor | Diesel    | 2007     | 99     | Tier 2   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65806-A1 | Agricultural Tractor | Diesel    | 2007     | 99     | Tier 2   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65807-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65808-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65809-A1 | Agricultural Tractor | Diesel    | 1991     | 80     | Tier 0   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65810-A1 | Agricultural Tractor | Diesel    | 2007     | 99     | Tier 2   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65811-A1 | Agricultural Tractor | Diesel    | 2001     | 98     | Tier 1   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65812-A1 | Agricultural Tractor | Diesel    | 1998     | 62     | Tier 1   | 2019   | 73     | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65813-A1 | Agricultural Tractor | Diesel    | 1997     | 51     | Tier 0   | 2019   | 73     | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-65912-A1 | Forklift             | Diesel    | 1993     | 62     | Tier 0   | 2018   | 74     | Tier 4 Final            | 1280                 |                      |                     | 10 Fresno          |                   |
| G-65913-A1 | Forklift             | Diesel    | 1987     | 62     | Tier 0   | 2018   | 74     | Tier 4 Final            | 1280                 |                      |                     | 10 Fresno          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-65915-A1 | Forklift             | Diesel    | 1989     | 62     | Tier 0   | 2018   | 74     | Tier 4 Final            | 1280                 |                      |                     | 10                 | Fresno            |
| G-65988-A1 | Agricultural Tractor | Diesel    | 2002     | 135    | Tier 1   | 2020   | 123    | Tier 4 Final            | 700                  |                      |                     | 10                 | Merced            |
| G-65989-A1 | Agricultural Tractor | Diesel    | 2002     | 331    | Tier 2   | 2020   | 370    | Tier 4 Final            | 700                  |                      |                     | 10                 | Merced            |
| G-66007-A1 | Agricultural Tractor | Diesel    | 1983     | 82     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                      |                     | 10                 | Merced            |
| G-66054-A1 | Back Hoe             | Diesel    | 1978     | 62     | Tier 0   | 2020   | 62     | Tier 4 Final            | 300                  |                      |                     | 10                 | Stanislaus        |
| G-66063-A1 | Agricultural Tractor | Diesel    | 1981     | 84     | Tier 0   | 2020   | 67     | Tier 4 Final            | 600                  |                      |                     | 10                 | Tulare            |
| G-66064-A1 | Agricultural Tractor | Diesel    | 2001     | 98     | Tier 1   | 2019   | 106    | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| G-66090-A1 | Agricultural Tractor | Diesel    | 1969     | 144    | Tier 0   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| G-66093-A1 | Agricultural Tractor | Diesel    | 2006     | 115    | Tier 2   | 2020   | 123    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Madera            |
| G-66096-A1 | Agricultural Tractor | Diesel    | 1994     | 104    | Tier 1   | 2020   | 123    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Madera            |
| G-66097-A1 | Agricultural Tractor | Diesel    | 1994     | 110    | Tier 0   | 2020   | 123    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Madera            |
| G-66099-A1 | Agricultural Tractor | Diesel    | 1986     | 90     | Tier 0   | 2020   | 123    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Madera            |
| G-66102-A1 | Back Hoe             | Diesel    | 1979     | 60     | Tier 0   | 2020   | 90     | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66104-A1 | Wheel Loader         | Diesel    | 1974     | 115    | Tier 0   | 2018   | 158    | Tier 4 Final            | 850                  |                      |                     | 10                 | Stanislaus        |
| G-66105-A1 | Chopper              | Diesel    | 2003     | 601    | Tier 2   | 2020   | 912    | Tier 4 Final            | 890                  |                      |                     | 10                 | Merced            |
| G-66107-A1 | Agricultural Tractor | Diesel    | 1977     | 81     | Tier 0   | 2016   | 110    | Tier 4 Final            | 200                  |                      |                     | 10                 | Kern              |
| G-66114-A1 | Forklift             | Diesel    | 1998     | 80     | Tier 0   | 2018   | 56     | Tier 4 Interim          | 300                  |                      |                     | 10                 | Fresno            |
| G-66115-A1 | Agricultural Tractor | Diesel    | 1981     | 156    | Tier 0   | 2020   | 123    | Tier 4 Final            | 450                  |                      |                     | 10                 | Fresno            |
| G-66149-A1 | Agricultural Tractor | Diesel    | 1979     | 156    | Tier 0   | 2020   | 123    | Tier 4 Final            | 450                  |                      |                     | 10                 | Fresno            |
| G-66152-A1 | Agricultural Tractor | Diesel    | 1966     | 115    | Tier 0   | 2019   | 114    | Tier 4 Final            | 150                  |                      |                     | 10                 | Fresno            |
| G-66154-A1 | Agricultural Tractor | Diesel    | 1978     | 228    | Tier 0   | 2019   | 311    | Tier 4 Final            | 400                  |                      |                     | 10                 | Merced            |
| G-66158-A1 | Agricultural Tractor | Diesel    | 1988     | 88     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 300                  |                      |                     | 10                 | San Joaquin       |
| G-66161-A1 | Agricultural Tractor | Diesel    | 1989     | 46     | Tier 0   | 2019   | 74     | Tier 4 Final            | 300                  |                      |                     | 10                 | San Joaquin       |
| G-66163-A1 | Agricultural Tractor | Diesel    | 1981     | 80     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 300                  |                      |                     | 10                 | San Joaquin       |
| G-66171-A1 | Agricultural Tractor | Diesel    | 1962     | 45     | Tier 0   | 2019   | 53     | Tier 4 Final            | 350                  |                      |                     | 10                 | San Joaquin       |
| G-66172-A1 | Agricultural Tractor | Diesel    | 1984     | 60     | Tier 0   | 2019   | 99     | Tier 4 Final            | 400                  |                      |                     | 10                 | Fresno            |
| G-66192-A1 | Back Hoe             | Diesel    | 2001     | 95     | Tier 1   | 2019   | 96     | Tier 4 Final            | 500                  |                      |                     | 10                 | Stanislaus        |
| G-66197-A1 | Agricultural Tractor | Diesel    | 1992     | 88     | Tier 0   | 2018   | 106    | Tier 4 Final            | 250                  |                      |                     | 10                 | Stanislaus        |
| G-66209-A1 | Swathers             | Diesel    | 2002     | 182    | Tier 1   | 2020   | 260    | Tier 4 Final            | 718                  |                      |                     | 10                 | Stanislaus        |
| G-66210-A1 | Swathers             | Diesel    | 2002     | 182    | Tier 1   | 2020   | 260    | Tier 4 Final            | 760                  |                      |                     | 10                 | Stanislaus        |
| G-66242-A1 | Forklift             | Diesel    | 2001     | 76     | Tier 1   | 2020   | 73     | Tier 4 Final            | 500                  |                      |                     | 10                 | Stanislaus        |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-66244-A1 | Bale Wagon           | Diesel    | 1995     | 210    | Tier 0   | 2019   | 190    | Tier 4 Final            | 300                  |                      |                     | 10                 | Merced            |
| G-66292-A1 | Agricultural Tractor | Diesel    | 2000     | 88     | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 800                  |                      |                     | 10                 | Tulare            |
| G-66293-A1 | Agricultural Tractor | Diesel    | 1980     | 98     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 750                  |                      |                     | 10                 | Tulare            |
| G-66295-A1 | Agricultural Tractor | Diesel    | 2000     | 88     | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 800                  |                      |                     | 10                 | Tulare            |
| G-66297-A1 | Agricultural Tractor | Diesel    | 1988     | 102    | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Tulare            |
| G-66299-A1 | Agricultural Tractor | Diesel    | 1988     | 102    | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Tulare            |
| G-66330-A1 | Agricultural Tractor | Diesel    | 2003     | 99     | Tier 1   | 2019   | 123    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Fresno            |
| G-66332-A1 | Agricultural Tractor | Diesel    | 2004     | 97     | Tier 2   | 2019   | 123    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Fresno            |
| G-66333-A1 | Agricultural Tractor | Diesel    | 2004     | 99     | Tier 2   | 2019   | 123    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Fresno            |
| G-66338-A1 | Agricultural Tractor | Diesel    | 1982     | 97     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 850                  |                      |                     | 10                 | Tulare            |
| G-66339-A1 | Agricultural Tractor | Diesel    | 1987     | 97     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Tulare            |
| G-66341-A1 | Agricultural Tractor | Diesel    | 1984     | 97     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Tulare            |
| G-66342-A1 | Agricultural Tractor | Diesel    | 1975     | 47     | Tier 0   | 2019   | 73     | Tier 4 Final            | 600                  |                      |                     | 10                 | Fresno            |
| G-66343-A1 | Agricultural Tractor | Diesel    | 1975     | 47     | Tier 0   | 2020   | 73     | Tier 4 Final            | 600                  |                      |                     | 10                 | Fresno            |
| G-66345-A1 | Agricultural Tractor | Diesel    | 1977     | 48     | Tier 0   | 2020   | 73     | Tier 4 Final            | 600                  |                      |                     | 10                 | Fresno            |
| G-66349-A1 | Agricultural Tractor | Diesel    | 1974     | 55     | Tier 0   | 2020   | 73     | Tier 4 Final            | 650                  |                      |                     | 10                 | Fresno            |
| G-66526-A1 | Wheel Loader         | Diesel    | 1994     | 210    | Tier 0   | 2019   | 182    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Stanislaus        |
| G-66527-A1 | Forklift             | Diesel    | 1989     | 152    | Tier 0   | 2020   | 173    | Tier 4 Final            | 2500                 |                      |                     | 10                 | Tulare            |
| G-66528-A1 | Forklift             | Diesel    | 1992     | 152    | Tier 0   | 2020   | 173    | Tier 4 Final            | 2300                 |                      |                     | 10                 | Tulare            |
| G-66531-A1 | Forklift             | Diesel    | 1994     | 133    | Tier 0   | 2020   | 173    | Tier 4 Final            | 1800                 |                      |                     | 10                 | Tulare            |
| G-66544-A1 | Agricultural Tractor | Diesel    | 1978     | 60     | Tier 0   | 2019   | 114    | Tier 4 Final            | 600                  |                      |                     | 10                 | Merced            |
| G-66633-A1 | Back Hoe             | Diesel    | 1978     | 62     | Tier 0   | 2019   | 93     | Tier 4 Final            | 750                  |                      |                     | 10                 | Stanislaus        |
| G-66635-A1 | Agricultural Tractor | Diesel    | 1995     | 102    | Tier 0   | 2019   | 114    | Tier 4 Final            | 450                  |                      |                     | 10                 | Fresno            |
| G-66693-A1 | Agricultural Tractor | Diesel    | 1997     | 46     | Tier 0   | 2020   | 73     | Tier 4 Final            | 400                  |                      |                     | 10                 | Tulare            |
| G-66697-A1 | Agricultural Tractor | Diesel    | 1974     | 69     | Tier 0   | 2019   | 70     | Tier 4 Final            | 300                  |                      |                     | 10                 | Madera            |
| G-66716-A1 | Agricultural Tractor | Diesel    | 2007     | 96     | Tier 2   | 2018   | 114    | Tier 4 Final            | 210                  |                      |                     | 10                 | Kings             |
| G-66718-A1 | Wheel Loader         | Diesel    | 2002     | 128    | Tier 1   | 2020   | 163    | Tier 4 Final            | 2500                 |                      |                     | 10                 | Merced            |
| G-66723-A1 | Agricultural Tractor | Diesel    | 2007     | 96     | Tier 2   | 2019   | 114    | Tier 4 Final            | 210                  |                      |                     | 10                 | Kings             |
| G-66724-A1 | Agricultural Tractor | Diesel    | 2004     | 231    | Tier 2   | 2020   | 256    | Tier 4 Final            | 320                  |                      |                     | 10                 | Tulare            |
| G-66726-A1 | Agricultural Tractor | Diesel    | 1965     | 55     | Tier 0   | 2019   | 114    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-66764-A1 | Agricultural Tractor | Diesel    | 1997     | 95     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 800                  |                      |                     | 10                 | Merced            |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-66776-A1 | Back Hoe             | Diesel    | 1995     | 85     | Tier 0   | 2019   | 96     | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| G-66778-A1 | Agricultural Tractor | Diesel    | 1996     | 99     | Tier 0   | 2020   | 106    | Tier 4 Final            | 500                  |                      |                     | 10                 | Merced            |
| G-66786-A1 | Agricultural Tractor | Diesel    | 2002     | 113    | Tier 1   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66793-A1 | Agricultural Tractor | Diesel    | 1983     | 98     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66800-A1 | Agricultural Tractor | Diesel    | 1976     | 69     | Tier 0   | 2019   | 99     | Tier 4 Final            | 600                  |                      |                     | 10                 | Madera            |
| G-66803-A1 | Agricultural Tractor | Diesel    | 1969     | 76     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66806-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66810-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66811-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66812-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66814-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66855-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2020   | 106    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66857-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2020   | 106    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66859-A1 | Agricultural Tractor | Diesel    | 1989     | 71     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66860-A1 | Agricultural Tractor | Diesel    | 2005     | 85     | Tier 2   | 2019   | 108    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66862-A1 | Agricultural Tractor | Diesel    | 2005     | 85     | Tier 2   | 2020   | 106    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66863-A1 | Agricultural Tractor | Diesel    | 2005     | 85     | Tier 2   | 2019   | 114    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66864-A1 | Agricultural Tractor | Diesel    | 2005     | 85     | Tier 2   | 2019   | 106    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66871-A1 | Agricultural Tractor | Diesel    | 2005     | 85     | Tier 2   | 2020   | 114    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66876-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2020   | 106    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66879-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Fresno            |
| G-66881-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2020   | 106    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66884-A1 | Agricultural Tractor | Diesel    | 2005     | 85     | Tier 2   | 2019   | 114    | Tier 4 Final            | 700                  |                      |                     | 10                 | Fresno            |
| G-66890-A1 | Agricultural Tractor | Diesel    | 1997     | 240    | Tier 1   | 2018   | 221    | Tier 4 Final            | 1642                 |                      |                     | 10                 | Fresno            |
| G-66892-A1 | Agricultural Tractor | Diesel    | 2002     | 181    | Tier 1   | 2019   | 202    | Tier 4 Final            | 2008                 |                      |                     | 10                 | Fresno            |
| G-66893-A1 | Agricultural Tractor | Diesel    | 1991     | 69     | Tier 0   | 2017   | 53     | Tier 4 Final            | 800                  |                      |                     | 10                 | Fresno            |
| G-66899-A1 | Agricultural Tractor | Diesel    | 1998     | 71     | Tier 1   | 2018   | 53     | Tier 4 Final            | 1000                 |                      |                     | 10                 | Fresno            |
| G-66917-A1 | Skid Loader          | Diesel    | 2007     | 49     | Tier 2   | 2020   | 63     | Tier 4 Final            | 1000                 |                      |                     | 10                 | Stanislaus        |
| G-66919-A1 | Wheel Loader         | Diesel    | 1999     | 160    | Tier 1   | 2019   | 192    | Tier 4 Final            | 1800                 |                      |                     | 10                 | Madera            |
| G-66920-A1 | Wheel Loader         | Diesel    | 2001     | 125    | Tier 1   | 2019   | 166    | Tier 4 Final            | 900                  |                      |                     | 10                 | San Joaquin       |
| G-66923-A1 | Wheel Loader         | Diesel    | 2005     | 177    | Tier 2   | 2018   | 192    | Tier 4 Final            | 2000                 |                      |                     | 10                 | Tulare            |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-66933-A1 | Agricultural Tractor | Diesel    | 1972     | 162    | Tier 0   | 2020   | 123    | Tier 4 Final | 575                  |                      |                     | 10 San Joaquin     |                   |
| G-66940-A1 | Agricultural Tractor | Diesel    | 1980     | 310    | Tier 0   | 2020   | 464    | Tier 4 Final | 1500                 |                      |                     | 10 Kern            |                   |
| G-66967-A1 | Agricultural Tractor | Diesel    | 1988     | 53     | Tier 0   | 2019   | 37     | Tier 4 Final | 250                  |                      |                     | 10 San Joaquin     |                   |
| G-66968-A1 | Agricultural Tractor | Diesel    | 1981     | 158    | Tier 0   | 2019   | 115    | Tier 4 Final | 350                  |                      |                     | 10 Merced          |                   |
| G-66969-A1 | Agricultural Tractor | Diesel    | 2001     | 98     | Tier 1   | 2019   | 106    | Tier 4 Final | 2500                 |                      |                     | 10 Fresno          |                   |
| G-66970-A1 | Agricultural Tractor | Diesel    | 2003     | 98     | Tier 1   | 2020   | 106    | Tier 4 Final | 2485                 |                      |                     | 10 Fresno          |                   |
| G-67017-A1 | Agricultural Tractor | Diesel    | 2003     | 263    | Tier 2   | 2020   | 280    | Tier 4 Final | 1500                 |                      |                     | 10 Kern            |                   |
| G-67025-A1 | Agricultural Tractor | Diesel    | 1987     | 60     | Tier 0   | 2018   | 57     | Tier 4 Final | 400                  |                      |                     | 10 Stanislaus      |                   |
| G-67030-A1 | Agricultural Tractor | Diesel    | 2001     | 181    | Tier 1   | 2020   | 230    | Tier 4 Final | 500                  |                      |                     | 10 Kings           |                   |
| G-67032-A1 | Agricultural Tractor | Diesel    | 1991     | 65     | Tier 0   | 2018   | 36     | Tier 4 Final | 400                  |                      |                     | 10 Stanislaus      |                   |
| G-67051-A1 | Agricultural Tractor | Diesel    | 1997     | 130    | Tier 1   | 2019   | 150    | Tier 4 Final | 1000                 |                      |                     | 10 Kings           |                   |
| G-67052-A1 | Agricultural Tractor | Diesel    | 1989     | 160    | Tier 0   | 2019   | 276    | Tier 4 Final | 350                  |                      |                     | 10 Kings           |                   |
| G-67206-A1 | Agricultural Tractor | Diesel    | 1984     | 127    | Tier 0   | 2015   | 130    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-67209-A1 | Agricultural Tractor | Diesel    | 1990     | 88     | Tier 0   | 2019   | 110    | Tier 4 Final | 1100                 |                      |                     | 10 Kern            |                   |
| G-67214-A1 | Agricultural Tractor | Diesel    | 1987     | 34     | Tier 0   | 2020   | 32     | Tier 4 Final | 620                  |                      |                     | 10 Merced          |                   |
| G-67215-A1 | Wheel Loader         | Diesel    | 1997     | 101    | Tier 1   | 2020   | 117    | Tier 4 Final | 1000                 |                      |                     | 10 Kings           |                   |
| G-67257-A1 | Wheel Loader         | Diesel    | 1993     | 157    | Tier 0   | 2019   | 192    | Tier 4 Final | 3500                 |                      |                     | 10 Tulare          |                   |
| G-67479-A1 | Agricultural Tractor | Diesel    | 1994     | 108    | Tier 1   | 2020   | 123    | Tier 4 Final | 1248                 |                      |                     | 10 Madera          |                   |
| G-67548-A1 | Chopper              | Diesel    | 2006     | 601    | Tier 2   | 2019   | 872    | Tier 4 Final | 800                  |                      |                     | 10 Merced          |                   |
| G-67551-A1 | Agricultural Tractor | Diesel    | 1997     | 261    | Tier 1   | 2019   | 281    | Tier 4 Final | 500                  |                      |                     | 10 Stanislaus      |                   |
| G-67591-A1 | Skid Loader          | Diesel    | 2002     | 81     | Tier 1   | 2020   | 73     | Tier 4 Final | 500                  |                      |                     | 10 Merced          |                   |
| G-67622-A1 | Agricultural Tractor | Diesel    | 1993     | 174    | Tier 0   | 2019   | 311    | Tier 4 Final | 800                  |                      |                     | 10 Merced          |                   |
| G-67625-A1 | Agricultural Tractor | Diesel    | 1996     | 108    | Tier 0   | 2019   | 106    | Tier 4 Final | 250                  |                      |                     | 10 Stanislaus      |                   |
| G-67654-A1 | Agricultural Tractor | Diesel    | 1982     | 183    | Tier 0   | 2020   | 123    | Tier 4 Final | 700                  |                      |                     | 10 Fresno          |                   |
| G-67657-A1 | Agricultural Tractor | Diesel    | 1980     | 81     | Tier 0   | 2020   | 123    | Tier 4 Final | 500                  |                      |                     | 10 Merced          |                   |
| G-67658-A1 | Agricultural Tractor | Diesel    | 1989     | 204    | Tier 0   | 2019   | 202    | Tier 4 Final | 800                  |                      |                     | 10 Merced          |                   |
| G-67661-A1 | Agricultural Tractor | Diesel    | 2006     | 99     | Tier 2   | 2019   | 114    | Tier 4 Final | 800                  |                      |                     | 10 Merced          |                   |
| G-67733-A1 | Agricultural Tractor | Diesel    | 1979     | 52     | Tier 0   | 2014   | 45     | Tier 4 Final | 300                  |                      |                     | 10 Stanislaus      |                   |
| G-67736-A1 | Agricultural Tractor | Diesel    | 1980     | 63     | Tier 0   | 2019   | 73     | Tier 4 Final | 300                  |                      |                     | 10 Stanislaus      |                   |
| G-67737-A1 | Agricultural Tractor | Diesel    | 1992     | 103    | Tier 0   | 2019   | 114    | Tier 4 Final | 300                  |                      |                     | 10 Stanislaus      |                   |
| G-67739-A1 | Agricultural Tractor | Diesel    | 1994     | 103    | Tier 0   | 2019   | 114    | Tier 4 Final | 300                  |                      |                     | 10 Stanislaus      |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-67742-A2 | Agricultural Tractor | Diesel    | 2006     | 115    | Tier 1   | 2018   | 115    | Tier 4 Final            | 500                  |                      |                     | 10                 | Madera            |
| G-67746-A1 | Forklift             | Diesel    | 1998     | 60     | Tier 1   | 2020   | 74     | Tier 4 Final            | 800                  |                      |                     | 10                 | Tulare            |
| G-67752-A1 | Shaker               | Diesel    | 2001     | 125    | Tier 1   | 2020   | 139    | Tier 4 Final            | 700                  |                      |                     | 10                 | Madera            |
| G-67778-A1 | Shaker               | Diesel    | 2006     | 155    | Tier 2   | 2019   | 148    | Tier 4 Final            | 600                  |                      |                     | 10                 | Madera            |
| G-67786-A1 | Agricultural Tractor | Diesel    | 2001     | 114    | Tier 1   | 2020   | 114    | Tier 4 Final            | 800                  |                      |                     | 10                 | Madera            |
| G-67787-A1 | Agricultural Tractor | Diesel    | 1997     | 102    | Tier 1   | 2020   | 114    | Tier 4 Final            | 800                  |                      |                     | 10                 | Madera            |
| G-67788-A1 | Agricultural Tractor | Diesel    | 2005     | 113    | Tier 2   | 2020   | 123    | Tier 4 Final            | 800                  |                      |                     | 10                 | Madera            |
| G-67789-A1 | Agricultural Tractor | Diesel    | 2005     | 113    | Tier 2   | 2020   | 123    | Tier 4 Final            | 800                  |                      |                     | 10                 | Madera            |
| G-67790-A1 | Agricultural Tractor | Diesel    | 2004     | 113    | Tier 2   | 2020   | 114    | Tier 4 Final            | 800                  |                      |                     | 10                 | Madera            |
| G-67810-A1 | Agricultural Tractor | Diesel    | 1979     | 30     | Tier 0   | 2019   | 35     | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| G-67813-A1 | Agricultural Tractor | Diesel    | 1997     | 44     | Tier 0   | 2019   | 35     | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| G-67831-A1 | Wheel Loader         | Diesel    | 2005     | 149    | Tier 2   | 2018   | 226    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Fresno            |
| G-67840-A1 | Agricultural Tractor | Diesel    | 2006     | 115    | Tier 2   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-67876-A1 | Wheel Loader         | Diesel    | 2003     | 132    | Tier 2   | 2019   | 164    | Tier 4 Final            | 3650                 |                      |                     | 10                 | Merced            |
| G-67879-A1 | Agricultural Tractor | Diesel    | 2006     | 109    | Tier 2   | 2019   | 123    | Tier 4 Final            | 600                  |                      |                     | 10                 | Stanislaus        |
| G-67883-A1 | Agricultural Tractor | Diesel    | 1995     | 110    | Tier 0   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-67929-A1 | Agricultural Tractor | Diesel    | 1982     | 81     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | Tulare            |
| G-67931-A1 | Agricultural Tractor | Diesel    | 2003     | 210    | Tier 2   | 2020   | 230    | Tier 4 Final            | 2900                 |                      |                     | 10                 | Tulare            |
| G-67933-A1 | Wheel Loader         | Diesel    | 1999     | 190    | Tier 1   | 2019   | 192    | Tier 4 Final            | 2000                 |                      |                     | 10                 | Fresno            |
| G-67938-A1 | Agricultural Tractor | Diesel    | 1989     | 79     | Tier 0   | 2019   | 99     | Tier 4 Final            | 300                  |                      |                     | 10                 | Kern              |
| G-68039-A1 | Agricultural Tractor | Diesel    | 2004     | 99     | Tier 2   | 2019   | 99     | Tier 4 Final            | 175                  |                      |                     | 10                 | Fresno            |
| G-68091-A1 | Agricultural Tractor | Diesel    | 1997     | 83     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 700                  |                      |                     | 10                 | San Joaquin       |
| G-68219-A1 | Agricultural Tractor | Diesel    | 1989     | 63     | Tier 0   | 2020   | 73     | Tier 4 Final            | 1250                 |                      |                     | 10                 | Fresno            |
| G-68221-A1 | Agricultural Tractor | Diesel    | 1981     | 132    | Tier 0   | 2020   | 195    | Tier 4 Final            | 1200                 |                      |                     | 10                 | Fresno            |
| G-68235-A1 | Wheel Loader         | Diesel    | 1988     | 110    | Tier 0   | 2020   | 74     | Tier 4 Final            | 500                  |                      |                     | 10                 | Kern              |
| G-68239-A1 | Wheel Loader         | Diesel    | 1989     | 128    | Tier 0   | 2016   | 162    | Tier 4 Final            | 1250                 |                      |                     | 10                 | Tulare            |
| G-68241-A1 | Wheel Loader         | Diesel    | 1996     | 138    | Tier 0   | 2019   | 162    | Tier 4 Final            | 1250                 |                      |                     | 10                 | Tulare            |
| G-68258-A1 | Nut Sweeper          | Diesel    | 2007     | 80     | Tier 2   | 2019   | 142    | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| G-68284-A1 | Skid Loader          | Diesel    | 2006     | 100    | Tier 2   | 2019   | 97     | Tier 4 Final            | 1000                 |                      |                     | 10                 | Madera            |
| G-68523-A1 | Agricultural Tractor | Diesel    | 2001     | 86     | Tier 1   | 2018   | 106    | Tier 4 Final            | 600                  |                      |                     | 10                 | Stanislaus        |
| G-68541-A1 | Wheel Loader         | Diesel    | 1974     | 100    | Tier 0   | 2020   | 163    | Tier 4 Final            | 2000                 |                      |                     | 10                 | Merced            |

## Description Vehicle Replacement

| Project #  | Primary Function        | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|-------------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                         |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-68542-A1 | Agricultural Tractor    | Diesel    | 1998     | 89     | Tier 1   | 2020   | 123    | Tier 4 Final            | 400                  |                      |                     | 10                 | Fresno            |
| G-68544-A1 | Agricultural Tractor    | Diesel    | 1993     | 46     | Tier 0   | 2019   | 53     | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-68550-A1 | Agricultural Tractor    | Diesel    | 1991     | 180    | Tier 0   | 2019   | 115    | Tier 4 Final            | 300                  |                      |                     | 10                 | Kings             |
| G-68551-A1 | Agricultural Tractor    | Diesel    | 1977     | 80     | Tier 0   | 2017   | 98     | Tier 4 Final            | 300                  |                      |                     | 10                 | Kings             |
| G-68617-A1 | Agricultural Tractor    | Diesel    | 2006     | 109    | Tier 2   | 2019   | 115    | Tier 4 Final            | 900                  |                      |                     | 10                 | Kings             |
| G-68714-A1 | Agricultural Tractor    | Diesel    | 2007     | 95     | Tier 2   | 2020   | 90     | Tier 4 Final            | 1100                 |                      |                     | 10                 | Fresno            |
| G-68715-A1 | Agricultural Tractor    | Diesel    | 2007     | 95     | Tier 2   | 2020   | 90     | Tier 4 Final            | 1100                 |                      |                     | 10                 | Fresno            |
| G-68717-A1 | Agricultural Tractor    | Diesel    | 2007     | 95     | Tier 2   | 2020   | 90     | Tier 4 Final            | 1100                 |                      |                     | 10                 | Fresno            |
| G-68743-A1 | Agricultural Tractor    | Diesel    | 2007     | 95     | Tier 2   | 2020   | 90     | Tier 4 Final            | 1100                 |                      |                     | 10                 | Fresno            |
| G-68749-A1 | Agricultural Tractor    | Diesel    | 2007     | 95     | Tier 2   | 2020   | 90     | Tier 4 Final            | 1100                 |                      |                     | 10                 | Fresno            |
| G-68760-A1 | Agricultural Tractor    | Diesel    | 1977     | 209    | Tier 0   | 2020   | 123    | Tier 4 Final            | 400                  |                      |                     | 10                 | Fresno            |
| G-68762-A1 | Agricultural Tractor    | Diesel    | 1980     | 84     | Tier 0   | 2020   | 114    | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| G-68763-A1 | Agricultural Tractor    | Diesel    | 1990     | 97     | Tier 0   | 2020   | 114    | Tier 4 Final            | 450                  |                      |                     | 10                 | Tulare            |
| G-68775-A1 | Agricultural Tractor    | Diesel    | 1998     | 89     | Tier 1   | 2020   | 123    | Tier 4 Final            | 300                  |                      |                     | 10                 | Fresno            |
| G-68814-A1 | Pistachio Harvester     | Diesel    | 1988     | 99     | Tier 2   | 2019   | 121    | Tier 4 Final            | 600                  |                      |                     | 10                 | Tulare            |
| G-68816-A1 | Pistachio Harvester     | Diesel    | 1988     | 121    | Tier 0   | 2019   | 148    | Tier 4 Final            | 600                  |                      |                     | 10                 | Tulare            |
| G-68822-A1 | Pistachio Harvester     | Diesel    | 1988     | 121    | Tier 0   | 2019   | 148    | Tier 4 Final            | 600                  |                      |                     | 10                 | Tulare            |
| G-68860-A1 | Agricultural Tractor    | Diesel    | 1980     | 76     | Tier 0   | 2019   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Stanislaus        |
| G-68863-A1 | Agricultural Tractor    | Diesel    | 1999     | 95     | Tier 1   | 2018   | 114    | Tier 4 Final            | 300                  |                      |                     | 10                 | Kern              |
| G-68866-A1 | Agricultural Tractor    | Diesel    | 2007     | 99     | Tier 2   | 2018   | 114    | Tier 4 Final            | 300                  |                      |                     | 10                 | Kern              |
| G-68893-A1 | Wheel Loader            | Diesel    | 1979     | 83     | Tier 0   | 2019   | 67     | Tier 4 Final            | 750                  |                      |                     | 10                 | Fresno            |
| G-68896-A1 | Back Hoe                | Diesel    | 1979     | 62     | Tier 0   | 2019   | 102    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Stanislaus        |
| G-69033-A1 | Agricultural Tractor    | Diesel    | 2006     | 99     | Tier 2   | 2019   | 114    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Fresno            |
| G-69299-A1 | Agricultural Backhoe    | Diesel    | 2000     | 89     | Tier 1   | 2020   | 93     | Tier 4 Final            | 800                  |                      |                     | 10                 | Merced            |
| G-69305-A1 | Agricultural Tractor    | Diesel    | 1989     | 81     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 300                  |                      |                     | 10                 | Stanislaus        |
| G-69340-A1 | Agricultural Tractor    | Diesel    | 1989     | 97     | Tier 0   | 2019   | 114    | Tier 4 Final            | 200                  |                      |                     | 10                 | Fresno            |
| G-69343-A1 | Agricultural Tractor    | Diesel    | 1993     | 102    | Tier 0   | 2019   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-69346-A1 | Agricultural Tractor    | Diesel    | 1973     | 46     | Tier 0   | 2019   | 59     | Tier 4 Final            | 200                  |                      |                     | 10                 | Fresno            |
| G-69351-A1 | Other Agricultural Equi | Diesel    | 1988     | 110    | Tier 0   | 2020   | 134    | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| G-69357-A1 | Agricultural Tractor    | Diesel    | 2004     | 450    | Tier 2   | 2020   | 545    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Merced            |
| G-69359-A1 | Agricultural Tractor    | Diesel    | 2005     | 283    | Tier 2   | 2020   | 281    | Tier 4 Final            | 1500                 |                      |                     | 10                 | Merced            |



## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-69361-A1 | Agricultural Tractor | Diesel    | 2004     | 210    | Tier 2   | 2020   | 281    | Tier 4 Final            | 1500                 |                      |                     | 10 Merced          |                   |
| G-69530-A1 | Agricultural Tractor | Diesel    | 2004     | 113    | Tier 2   | 2019   | 123    | Tier 4 Final            | 250                  |                      |                     | 10 Madera          |                   |
| G-69534-A1 | Wheel Loader         | Diesel    | 1998     | 105    | Tier 1   | 2020   | 166    | Tier 4 Final            | 3000                 |                      |                     | 10 Tulare          |                   |
| G-69538-A1 | Agricultural Tractor | Diesel    | 2003     | 462    | Tier 2   | 2018   | 489    | Tier 4 Final            | 900                  |                      |                     | 10 Merced          |                   |
| G-69551-A1 | Agricultural Tractor | Diesel    | 1974     | 133    | Tier 0   | 2020   | 114    | Tier 4 Final            | 500                  |                      |                     | 10 Madera          |                   |
| G-69554-A1 | Agricultural Tractor | Diesel    | 1988     | 97     | Tier 0   | 2018   | 165    | Tier 4 Final            | 600                  |                      |                     | 10 Merced          |                   |
| G-69555-A1 | Agricultural Tractor | Diesel    | 1983     | 102    | Tier 0   | 2019   | 123    | Tier 4 Final            | 300                  |                      |                     | 10 Stanislaus      |                   |
| G-69560-A1 | Back Hoe             | Diesel    | 1996     | 79     | Tier 0   | 2020   | 99     | Tier 4 Final            | 850                  |                      |                     | 10 Kern            |                   |
| G-69564-A1 | Back Hoe             | Diesel    | 1997     | 124    | Tier 1   | 2020   | 113    | Tier 4 Final            | 1500                 |                      |                     | 10 Fresno          |                   |
| G-69582-A1 | Agricultural Tractor | Diesel    | 2004     | 150    | Tier 2   | 2019   | 123    | Tier 4 Final            | 1800                 |                      |                     | 10 Fresno          |                   |
| G-69586-A1 | Agricultural Tractor | Diesel    | 1988     | 215    | Tier 1   | 2020   | 155    | Tier 4 Final            | 1000                 |                      |                     | 10 Fresno          |                   |
| G-69590-A1 | Agricultural Tractor | Diesel    | 1999     | 175    | Tier 1   | 2020   | 195    | Tier 4 Final            | 1300                 |                      |                     | 10 Fresno          |                   |
| G-69591-A1 | Skid Loader          | Diesel    | 2013     | 73     | Tier 0   | 2020   | 73     | Tier 4 Final            | 2500                 |                      |                     | 10 Fresno          |                   |
| G-69592-A1 | Agricultural Tractor | Diesel    | 1993     | 90     | Tier 0   | 2020   | 123    | Tier 4 Final            | 800                  |                      |                     | 10 Fresno          |                   |
| G-69593-A1 | Agricultural Tractor | Diesel    | 1972     | 81     | Tier 0   | 2019   | 93     | Tier 4 Final            | 600                  |                      |                     | 10 Merced          |                   |
| G-69598-A1 | Sweeper              | Diesel    | 1996     | 80     | Tier 0   | 2019   | 74     | Tier 4 Final            | 500                  |                      |                     | 10 Kings           |                   |
| G-69626-A1 | Agricultural Tractor | Diesel    | 1965     | 55     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10 Tulare          |                   |
| G-69721-A1 | Agricultural Tractor | Diesel    | 1994     | 151    | Tier 0   | 2019   | 175    | Tier 4 Final            | 600                  |                      |                     | 10 Fresno          |                   |
| G-69726-A1 | Agricultural Tractor | Diesel    | 2005     | 113    | Tier 2   | 2016   | 114    | Tier 4 Final            | 250                  |                      |                     | 10 Madera          |                   |
| G-69727-A1 | Back Hoe             | Diesel    | 1995     | 120    | Tier 0   | 2020   | 113    | Tier 4 Final            | 960                  |                      |                     | 10 Merced          |                   |
| G-69737-A1 | Almond Sweeper       | Diesel    | 1993     | 65     | Tier 0   | 2019   | 74     | Tier 4 Final            | 400                  |                      |                     | 10 Merced          |                   |
| G-69738-A1 | Agricultural Tractor | Diesel    | 1968     | 113    | Tier 0   | 2019   | 101    | Tier 4 Final            | 350                  |                      |                     | 10 Stanislaus      |                   |
| G-69746-A1 | Agricultural Tractor | Diesel    | 1983     | 72     | Tier 0   | 2020   | 123    | Tier 4 Final            | 200                  |                      |                     | 10 Fresno          |                   |
| G-69757-A1 | Agricultural Tractor | Diesel    | 2005     | 500    | Tier 2   | 2020   | 611    | Tier 4 Final            | 800                  |                      |                     | 10 Merced          |                   |
| G-69817-A1 | Agricultural Tractor | Diesel    | 1978     | 72     | Tier 0   | 2020   | 123    | Tier 4 Final            | 80                   |                      |                     | 10 Merced          |                   |
| G-69828-A1 | Agricultural Tractor | Diesel    | 1998     | 114    | Tier 1   | 2019   | 114    | Tier 4 Final            | 600                  |                      |                     | 10 Merced          |                   |
| G-69850-A1 | Sweeper              | Diesel    | 2006     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final            | 350                  |                      |                     | 10 Kings           |                   |
| G-69853-A1 | Shaker               | Diesel    | 2004     | 215    | Tier 1   | 2019   | 148    | Tier 4 Final            | 350                  |                      |                     | 10 Kings           |                   |
| G-69871-A1 | Agricultural Tractor | Diesel    | 1980     | 84     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 100                  |                      |                     | 10 Tulare          |                   |
| G-69877-A1 | Agricultural Tractor | Diesel    | 1984     | 72     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 100                  |                      |                     | 10 Tulare          |                   |
| G-69891-A1 | Agricultural Tractor | Diesel    | 2006     | 76     | Tier 2   | 2020   | 125    | Tier 4 Final            | 600                  |                      |                     | 10 Kings           |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-69900-A1 | Agricultural Tractor | Diesel    | 2005     | 86     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 800                  |                      |                     | 10 Kern            |                   |
| G-69908-A1 | Agricultural Tractor | Diesel    | 1992     | 81     | Tier 0   | 2019   | 99     | Tier 4 Final            | 100                  |                      |                     | 10 Fresno          |                   |
| G-69942-A1 | Cotton Picker        | Diesel    | 2001     | 325    | Tier 1   | 2020   | 560    | Tier 4 Final            | 880                  |                      |                     | 10 Kings           |                   |
| G-69942-A1 | Cotton Picker        | Diesel    | 2005     | 350    | Tier 2   |        |        |                         |                      |                      |                     | Kings              |                   |
| G-70106-A1 | Agricultural Tractor | Diesel    | 2005     | 98     | Tier 2   | 2016   | 99     | Tier 4 Final            | 456                  |                      |                     | 10 Fresno          |                   |
| G-70107-A1 | Agricultural Tractor | Diesel    | 2001     | 98     | Tier 1   | 2016   | 99     | Tier 4 Final            | 386                  |                      |                     | 10 Madera          |                   |
| G-70109-A1 | Agricultural Tractor | Diesel    | 2005     | 98     | Tier 2   | 2020   | 100    | Tier 4 Final            | 421                  |                      |                     | 10 Madera          |                   |
| G-70110-A1 | Agricultural Tractor | Diesel    | 2001     | 98     | Tier 1   | 2020   | 100    | Tier 4 Final            | 435                  |                      |                     | 10 Fresno          |                   |
| G-70196-A1 | Wheel Loader         | Diesel    | 1990     | 160    | Tier 0   | 2019   | 173    | Tier 4 Final            | 2000                 |                      |                     | 10 Merced          |                   |
| G-70201-A1 | Wheel Loader         | Diesel    | 1983     | 155    | Tier 0   | 2019   | 173    | Tier 4 Final            | 2000                 |                      |                     | 10 Merced          |                   |
| G-70204-A1 | Wheel Loader         | Diesel    | 2000     | 183    | Tier 1   | 2019   | 173    | Tier 4 Final            | 2000                 |                      |                     | 10 Merced          |                   |
| G-70208-A1 | Agricultural Tractor | Diesel    | 1999     | 106    | Tier 1   | 2019   | 125    | Tier 4 Final            | 200                  |                      |                     | 10 Fresno          |                   |
| G-70232-A1 | Agricultural Tractor | Diesel    | 1978     | 38     | Tier 0   | 2017   | 35     | Tier 4 Final            | 720                  |                      |                     | 10 Tulare          |                   |
| G-70235-A1 | Agricultural Tractor | Diesel    | 1978     | 38     | Tier 0   | 2017   | 35     | Tier 4 Final            | 700                  |                      |                     | 10 Tulare          |                   |
| G-70244-A1 | Agricultural Tractor | Diesel    | 1993     | 27     | Tier 0   | 2017   | 35     | Tier 4 Final            | 700                  |                      |                     | 10 Tulare          |                   |
| G-70245-A1 | Agricultural Tractor | Diesel    | 1993     | 27     | Tier 0   | 2017   | 35     | Tier 4 Final            | 700                  |                      |                     | 10 Tulare          |                   |
| G-70246-A1 | Agricultural Tractor | Diesel    | 1996     | 44     | Tier 0   | 2018   | 35     | Tier 4 Final            | 700                  |                      |                     | 10 Tulare          |                   |
| G-70247-A1 | Wheel Loader         | Diesel    | 1998     | 125    | Tier 1   | 2019   | 192    | Tier 4 Final            | 1750                 |                      |                     | 10 Stanislaus      |                   |
| G-70262-A1 | Forklift             | Diesel    | 2005     | 100    | Tier 2   | 2018   | 142    | Tier 4 Final            | 460                  |                      |                     | 10 Stanislaus      |                   |
| G-70273-A1 | Agricultural Tractor | Diesel    | 1974     | 66     | Tier 0   | 2019   | 123    | Tier 4 Final            | 300                  |                      |                     | 10 Stanislaus      |                   |
| G-70311-A1 | Nut Sweeper          | Diesel    | 1987     | 100    | Tier 1   | 2019   | 74     | Tier 4 Final            | 350                  |                      |                     | 10 Kings           |                   |
| G-70609-A1 | Wheel Loader         | Diesel    | 1989     | 85     | Tier 0   | 2020   | 74     | Tier 4 Final            | 1000                 |                      |                     | 10 Tulare          |                   |
| G-70614-A1 | Almond Sweeper       | Diesel    | 2005     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final            | 1200                 |                      |                     | 10 Tulare          |                   |
| G-70615-A1 | Agricultural Tractor | Diesel    | 2005     | 105    | Tier 2   | 2019   | 123    | Tier 4 Final            | 1500                 |                      |                     | 10 Tulare          |                   |
| G-70618-A1 | Agricultural Tractor | Diesel    | 2005     | 105    | Tier 2   | 2019   | 123    | Tier 4 Final            | 1500                 |                      |                     | 10 Tulare          |                   |
| G-70620-A1 | Agricultural Tractor | Diesel    | 1995     | 100    | Tier 0   | 2019   | 123    | Tier 4 Final            | 1500                 |                      |                     | 10 Tulare          |                   |
| G-70621-A1 | Agricultural Tractor | Diesel    | 1995     | 100    | Tier 0   | 2020   | 123    | Tier 4 Final            | 1500                 |                      |                     | 10 Tulare          |                   |
| G-70642-A1 | Back Hoe             | Diesel    | 2004     | 98     | Tier 1   | 2020   | 113    | Tier 4 Final            | 400                  |                      |                     | 10 San Joaquin     |                   |
| G-70651-A1 | Agricultural Tractor | Diesel    | 1966     | 80     | Tier 0   | 2020   | 123    | Tier 4 Final            | 300                  |                      |                     | 10 San Joaquin     |                   |
| G-70652-A1 | Agricultural Tractor | Diesel    | 1967     | 80     | Tier 0   | 2020   | 123    | Tier 4 Final            | 300                  |                      |                     | 10 San Joaquin     |                   |
| G-70658-A1 | Agricultural Tractor | Diesel    | 1982     | 84     | Tier 0   | 2020   | 123    | Tier 4 Final            | 300                  |                      |                     | 10 San Joaquin     |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        | New      |        |        | Annual Usage (Hours)    | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP |                         |                      |                     |                    |                   |
| G-70662-A1 | Agricultural Tractor | Diesel    | 2005     | 98     | Tier 2   | 2019   | 165    | Tier 4 Final            | 1800                 |                     | 10                 | Stanislaus        |
| G-70665-A1 | Agricultural Tractor | Diesel    | 1971     | 85     | Tier 0   | 2018   | 101    | Tier 4 Final            | 400                  |                     | 10                 | Tulare            |
| G-70667-A1 | Shaker               | Diesel    | 1992     | 130    | Tier 0   | 2019   | 148    | Tier 4 Final            | 350                  |                     | 10                 | Madera            |
| G-70673-A1 | Skid Loader          | Diesel    | 2007     | 50     | Tier 2   | 2019   | 67     | Tier 4 Final            | 2000                 |                     | 10                 | Tulare            |
| G-70680-A1 | Shaker               | Diesel    | 2004     | 130    | Tier 2   | 2019   | 174    | Tier 4 Final            | 750                  |                     | 10                 | Kern              |
| G-70682-A1 | Shaker               | Diesel    | 2006     | 135    | Tier 2   | 2019   | 174    | Tier 4 Final            | 325                  |                     | 10                 | Madera            |
| G-70684-A1 | Agricultural Tractor | Diesel    | 2005     | 258    | Tier 2   | 2019   | 342    | Tier 4 Final            | 500                  |                     | 10                 | Merced            |
| G-70820-A1 | Agricultural Tractor | Diesel    | 2006     | 86     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                     | 10                 | Kern              |
| G-70821-A1 | Agricultural Tractor | Diesel    | 2005     | 86     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                     | 10                 | Kern              |
| G-70822-A1 | Agricultural Tractor | Diesel    | 2004     | 86     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                     | 10                 | Kern              |
| G-70824-A1 | Agricultural Tractor | Diesel    | 2004     | 86     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                     | 10                 | Kern              |
| G-70828-A1 | Agricultural Tractor | Diesel    | 2004     | 86     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                     | 10                 | Kern              |
| G-70829-A1 | Agricultural Tractor | Diesel    | 2006     | 86     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                     | 10                 | Kern              |
| G-70830-A1 | Agricultural Tractor | Diesel    | 2007     | 86     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                     | 10                 | Kern              |
| G-70833-A1 | Agricultural Tractor | Diesel    | 2007     | 86     | Tier 2   | 2020   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                     | 10                 | Kern              |
| G-70839-A1 | Agricultural Tractor | Diesel    | 2003     | 89     | Tier 1   | 2020   | 106    | Tier 4 Phase In/Alt NOx | 1000                 |                     | 10                 | Kern              |
| G-71009-A1 | Wheel Loader         | Diesel    | 1977     | 100    | Tier 0   | 2018   | 164    | Tier 4 Final            | 700                  |                     | 10                 | Fresno            |
| G-71013-A1 | Agricultural Tractor | Diesel    | 1997     | 100    | Tier 1   | 2020   | 123    | Tier 4 Final            | 1200                 |                     | 10                 | Fresno            |
| G-71051-A1 | Excavator            | Diesel    | 1986     | 42     | Tier 0   | 2016   | 58     | Tier 4 Final            | 800                  |                     | 10                 | Fresno            |
| G-71057-A1 | Agricultural Tractor | Diesel    | 2001     | 92     | Tier 1   | 2019   | 114    | Tier 4 Final            | 480                  |                     | 10                 | Tulare            |
| G-71157-A1 | Cotton Picker        | Diesel    | 2005     | 350    | Tier 2   |        |        |                         |                      |                     |                    | Kings             |
| G-71157-A1 | Cotton Picker        | Diesel    | 2005     | 350    | Tier 2   |        |        |                         |                      |                     |                    | Kings             |
| G-71347-A1 | Agricultural Tractor | Diesel    | 1984     | 102    | Tier 0   | 2020   | 114    | Tier 4 Final            | 500                  |                     | 10                 | Fresno            |
| G-71365-A1 | Agricultural Tractor | Diesel    | 1984     | 102    | Tier 0   | 2020   | 114    | Tier 4 Final            | 500                  |                     | 10                 | Fresno            |
| G-71372-A1 | Agricultural Tractor | Diesel    | 1993     | 81     | Tier 0   | 2018   | 106    | Tier 4 Final            | 100                  |                     | 10                 | Merced            |
| G-71396-A1 | Agricultural Tractor | Diesel    | 1995     | 90     | Tier 0   | 2018   | 108    | Tier 4 Final            | 1000                 |                     | 10                 | Tulare            |
| G-71425-A1 | Agricultural Tractor | Diesel    | 2002     | 270    | Tier 1   | 2020   | 123    | Tier 4 Final            | 1000                 |                     | 10                 | Fresno            |
| G-71429-A1 | Agricultural Tractor | Diesel    | 1969     | 114    | Tier 0   | 2019   | 99     | Tier 4 Final            | 400                  |                     | 10                 | Kern              |
| G-71443-A1 | Agricultural Tractor | Diesel    | 2003     | 98     | Tier 1   | 2020   | 123    | Tier 4 Final            | 500                  |                     | 10                 | Madera            |
| G-71654-A2 | Wheel Loader         | Diesel    | 2002     | 114    | Tier 1   | 2019   | 148    | Tier 4 Final            | 1000                 |                     | 10                 | Stanislaus        |
| G-71655-A1 | Agricultural Tractor | Diesel    | 2004     | 89     | Tier 2   | 2019   | 114    | Tier 4 Final            | 500                  |                     | 10                 | Stanislaus        |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-71713-A1 | Back Hoe             | Diesel    | 1994     | 76     | Tier 0   | 2018   | 74     | Tier 4 Final | 300                  |                      |                     | 10 Kings           |                   |
| G-71714-A1 | Back Hoe             | Diesel    | 1994     | 80     | Tier 1   | 2018   | 74     | Tier 4 Final | 300                  |                      |                     | 10 Kings           |                   |
| G-71716-A1 | Back Hoe             | Diesel    | 2001     | 80     | Tier 1   | 2018   | 74     | Tier 4 Final | 300                  |                      |                     | 10 Kings           |                   |
| G-71721-A1 | Chopper              | Diesel    | 2004     | 601    | Tier 2   | 2018   | 617    | Tier 4 Final | 600                  |                      |                     | 10 Madera          |                   |
| G-71725-A1 | Agricultural Tractor | Diesel    | 1977     | 74     | Tier 0   | 2019   | 114    | Tier 4 Final | 400                  |                      |                     | 10 Stanislaus      |                   |
| G-71734-A1 | Agricultural Tractor | Diesel    | 2001     | 96     | Tier 1   | 2019   | 114    | Tier 4 Final | 100                  |                      |                     | 10 Stanislaus      |                   |
| G-71736-A1 | Agricultural Tractor | Diesel    | 2003     | 209    | Tier 2   | 2019   | 221    | Tier 4 Final | 1000                 |                      |                     | 10 Merced          |                   |
| G-71737-A1 | Chopper              | Diesel    | 1998     | 375    | Tier 1   | 2020   | 912    | Tier 4 Final | 620                  |                      |                     | 10 San Joaquin     |                   |
| G-71776-A1 | Wheel Loader         | Diesel    | 1983     | 160    | Tier 0   | 2020   | 192    | Tier 4 Final | 1200                 |                      |                     | 10 Tulare          |                   |
| G-71791-A1 | Wheel Loader         | Diesel    | 2005     | 119    | Tier 2   | 2020   | 120    | Tier 4 Final | 2300                 |                      |                     | 10 Fresno          |                   |
| G-71792-A1 | Agricultural Tractor | Diesel    | 2004     | 462    | Tier 2   | 2020   | 611    | Tier 4 Final | 1200                 |                      |                     | 10 Fresno          |                   |
| G-71793-A1 | Agricultural Tractor | Diesel    | 1989     | 165    | Tier 1   | 2018   | 130    | Tier 4 Final | 1200                 |                      |                     | 10 Fresno          |                   |
| G-71795-A1 | Sprayer              | Diesel    | 1993     | 99     | Tier 0   | 2019   | 64     | Tier 4 Final | 200                  |                      |                     | 10 Merced          |                   |
| G-71798-A1 | Shaker               | Diesel    | 1979     | 100    | Tier 0   | 2019   | 174    | Tier 4 Final | 475                  |                      |                     | 10 Kern            |                   |
| G-71800-A1 | Shaker               | Diesel    | 1979     | 100    | Tier 0   | 2020   | 174    | Tier 4 Final | 475                  |                      |                     | 10 Kern            |                   |
| G-72042-A1 | Wheel Loader         | Diesel    | 2004     | 70     | Tier 2   | 2019   | 74     | Tier 4 Final | 1150                 |                      |                     | 10 Fresno          |                   |
| G-72059-A1 | Agricultural Tractor | Diesel    | 1982     | 82     | Tier 0   | 2019   | 108    | Tier 4 Final | 250                  |                      |                     | 10 Fresno          |                   |
| G-72070-A1 | Tractor              | Diesel    | 2007     | 113    | Tier 2   | 2019   | 125    | Tier 4 Final | 250                  |                      |                     | 10 Tulare          |                   |
| G-72109-A1 | Wheel Loader         | Diesel    | 1999     | 135    | Tier 1   | 2018   | 162    | Tier 4 Final | 1350                 |                      |                     | 10 Fresno          |                   |
| G-72369-A1 | Tractor              | Diesel    | 1995     | 28     | Tier 0   | 2020   | 32     | Tier 4 Final | 400                  |                      |                     | 10 Madera          |                   |
| G-72371-A1 | Agricultural Tractor | Diesel    | 1997     | 114    | Tier 1   | 2019   | 114    | Tier 4 Final | 400                  |                      |                     | 10 Madera          |                   |
| G-72418-A1 | Back Hoe             | Diesel    | 1996     | 75     | Tier 0   | 2020   | 92     | Tier 4 Final | 1200                 |                      |                     | 10 Fresno          |                   |
| G-72442-A1 | Agricultural Tractor | Diesel    | 2005     | 91     | Tier 2   | 2020   | 106    | Tier 4 Final | 1200                 |                      |                     | 10 San Joaquin     |                   |
| G-72448-A1 | Agricultural Tractor | Diesel    | 2006     | 115    | Tier 2   | 2019   | 106    | Tier 4 Final | 1200                 |                      |                     | 10 San Joaquin     |                   |
| G-72450-A1 | Agricultural Tractor | Diesel    | 2006     | 91     | Tier 2   | 2020   | 106    | Tier 4 Final | 1200                 |                      |                     | 10 San Joaquin     |                   |
| G-72460-A2 | Agricultural Tractor | Diesel    | 1994     | 285    | Tier 0   | 2019   | 375    | Tier 4 Final | 1200                 |                      |                     | 10 Fresno          |                   |
| G-72461-A1 | Agricultural Grader  | Diesel    | 1988     | 150    | Tier 0   | 2020   | 232    | Tier 4 Final | 1200                 |                      |                     | 10 Fresno          |                   |
| G-72475-A1 | Shaker               | Diesel    | 1989     | 100    | Tier 0   | 2019   | 174    | Tier 4 Final | 475                  |                      |                     | 10 Kern            |                   |
| G-72477-A1 | Shaker               | Diesel    | 1984     | 100    | Tier 0   | 2019   | 174    | Tier 4 Final | 475                  |                      |                     | 10 Kern            |                   |
| G-72480-A1 | Skid Loader          | Diesel    | 1990     | 36     | Tier 0   | 2019   | 67     | Tier 4 Final | 175                  |                      |                     | 10 Madera          |                   |
| G-72491-A1 | Back Hoe             | Diesel    | 1971     | 66     | Tier 0   | 2020   | 90     | Tier 4 Final | 950                  |                      |                     | 10 Madera          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function       | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|------------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                        |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-72504-A1 | Agricultural Tractor   | Diesel    | 1982     | 75     | Tier 0   | 2019   | 101    | Tier 4 Final            | 800                  |                      |                     | 10 San Joaquin     |                   |
| G-72590-A1 | Skid Loader            | Diesel    | 1991     | 36     | Tier 0   | 2019   | 49     | Tier 4 Final            | 200                  |                      |                     | 10 Fresno          |                   |
| G-72607-A1 | Agricultural Tractor   | Diesel    | 1968     | 115    | Tier 0   | 2019   | 120    | Tier 4 Final            | 300                  |                      |                     | 10 Merced          |                   |
| G-72707-A1 | Agricultural Tractor   | Diesel    | 1987     | 97     | Tier 0   | 2019   | 100    | Tier 4 Final            | 1100                 |                      |                     | 10 Fresno          |                   |
| G-72716-A1 | Agricultural Tractor   | Diesel    | 2001     | 98     | Tier 1   | 2019   | 114    | Tier 4 Final            | 300                  |                      |                     | 10 Stanislaus      |                   |
| G-72844-A1 | Agricultural Tractor   | Diesel    | 1985     | 130    | Tier 0   | 2019   | 123    | Tier 4 Final            | 250                  |                      |                     | 10 Merced          |                   |
| G-72847-A1 | Wheel Loader           | Diesel    | 2007     | 173    | Tier 2   | 2020   | 192    | Tier 4 Final            | 1500                 |                      |                     | 10 Kings           |                   |
| G-72850-A1 | Agricultural Tractor   | Diesel    | 2001     | 120    | Tier 1   | 2019   | 123    | Tier 4 Final            | 250                  |                      |                     | 10 Merced          |                   |
| G-72851-A1 | Agricultural Tractor   | Diesel    | 1995     | 114    | Tier 0   | 2017   | 139    | Tier 4 Final            | 550                  |                      |                     | 10 Stanislaus      |                   |
| G-72990-A1 | Advance Travel Electri | Diesel    | 2006     | 110    | Tier 2   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10 Tulare          |                   |
| G-72992-A1 | Sweeper                | Diesel    | 2008     | 80     | Tier 2   | 2020   | 142    | Tier 4 Final            | 500                  |                      |                     | 10 Tulare          |                   |
| G-72994-A1 | Wheel Loader           | Diesel    | 1998     | 135    | Tier 1   | 2020   | 166    | Tier 4 Final            | 800                  |                      |                     | 10 San Joaquin     |                   |
| G-73002-A1 | Agricultural Tractor   | Diesel    | 1999     | 39     | Tier 1   | 2020   | 61     | Tier 4 Final            | 150                  |                      |                     | 10 Merced          |                   |
| G-73006-A1 | Agricultural Tractor   | Diesel    | 2007     | 99     | Tier 2   | 2019   | 114    | Tier 4 Final            | 800                  |                      |                     | 10 Merced          |                   |
| G-73014-A1 | Wheel Loader           | Diesel    | 1998     | 142    | Tier 1   | 2018   | 162    | Tier 4 Final            | 550                  |                      |                     | 10 Merced          |                   |
| G-73020-A1 | Agricultural Tractor   | Diesel    | 1995     | 81     | Tier 0   | 2019   | 98     | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10 Fresno          |                   |
| G-73024-A1 | Agricultural Tractor   | Diesel    | 1974     | 46     | Tier 0   | 2019   | 67     | Tier 4 Final            | 310                  |                      |                     | 10 Fresno          |                   |
| G-73039-A1 | Agricultural Tractor   | Diesel    | 2007     | 99     | Tier 2   | 2020   | 114    | Tier 4 Final            | 325                  |                      |                     | 10 Stanislaus      |                   |
| G-73042-A1 | Agricultural Tractor   | Diesel    | 1999     | 100    | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 300                  |                      |                     | 10 Fresno          |                   |
| G-73114-A1 | Wheel Loader           | Diesel    | 1990     | 128    | Tier 0   | 2020   | 166    | Tier 4 Final            | 2000                 |                      |                     | 10 Stanislaus      |                   |
| G-73152-A1 | Agricultural Tractor   | Diesel    | 1970     | 76     | Tier 0   | 2019   | 37     | Tier 4 Final            | 400                  |                      |                     | 10 Tulare          |                   |
| G-73156-A1 | Wheel Loader           | Diesel    | 1998     | 142    | Tier 1   | 2020   | 152    | Tier 4 Final            | 1200                 |                      |                     | 10 Tulare          |                   |
| G-73158-A1 | Agricultural Tractor   | Diesel    | 2001     | 114    | Tier 1   | 2020   | 123    | Tier 4 Final            | 1200                 |                      |                     | 10 Tulare          |                   |
| G-73159-A1 | Agricultural Tractor   | Diesel    | 2002     | 115    | Tier 1   | 2020   | 123    | Tier 4 Final            | 1200                 |                      |                     | 10 Tulare          |                   |
| G-73164-A1 | Skid Loader            | Diesel    | 2004     | 81     | Tier 2   | 2019   | 95     | Tier 4 Final            | 1095                 |                      |                     | 10 Stanislaus      |                   |
| G-73361-A1 | Skid Loader            | Diesel    | 1990     | 58     | Tier 0   | 2020   | 73     | Tier 4 Final            | 400                  |                      |                     | 10 Stanislaus      |                   |
| G-73363-A1 | Skid Loader            | Diesel    | 1999     | 50     | Tier 1   | 2019   | 63     | Tier 4 Final            | 250                  |                      |                     | 10 Stanislaus      |                   |
| G-73367-A1 | Almond Shaker          | Diesel    | 2005     | 125    | Tier 1   | 2020   | 74     | Tier 4 Final            | 250                  |                      |                     | 10 Kern            |                   |
| G-73383-A1 | Wheel Loader           | Diesel    | 2007     | 75     | Tier 1   | 2019   | 74     | Tier 4 Final            | 1200                 |                      |                     | 10 Tulare          |                   |
| G-73389-A1 | Wheel Loader           | Diesel    | 2000     | 145    | Tier 1   | 2020   | 192    | Tier 4 Final            | 1200                 |                      |                     | 10 Tulare          |                   |
| G-73390-A1 | Wheel Loader           | Diesel    | 2002     | 170    | Tier 1   | 2020   | 192    | Tier 4 Final            | 1500                 |                      |                     | 10 Tulare          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-73437-A1 | Agricultural Tractor | Diesel    | 1975     | 54     | Tier 0   | 2019   | 37     | Tier 4 Final            | 100                  |                      |                     | 10 Stanislaus      |                   |
| G-73444-A1 | Agricultural Tractor | Diesel    | 1986     | 90     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 500                  |                      |                     | 10 Fresno          |                   |
| G-73823-A1 | Agricultural Tractor | Diesel    | 1976     | 210    | Tier 0   | 2020   | 280    | Tier 4 Final            | 1100                 |                      |                     | 10 Tulare          |                   |
| G-73975-A1 | Tractor              | Diesel    | 1984     | 400    | Tier 0   | 2020   | 470    | Tier 4 Final            | 1100                 |                      |                     | 10 Tulare          |                   |
| G-73979-A1 | Agricultural Tractor | Diesel    | 2004     | 98     | Tier 2   | 2019   | 114    | Tier 4 Final            | 800                  |                      |                     | 10 Stanislaus      |                   |
| G-73984-A1 | Agricultural Tractor | Diesel    | 1998     | 57     | Tier 1   | 2019   | 73     | Tier 4 Final            | 800                  |                      |                     | 10 Stanislaus      |                   |
| G-73987-A1 | Tractor              | Diesel    | 1976     | 263    | Tier 0   | 2020   | 280    | Tier 4 Final            | 1100                 |                      |                     | 10 Tulare          |                   |
| G-73988-A1 | Tractor              | Diesel    | 1984     | 360    | Tier 0   | 2020   | 515    | Tier 4 Final            | 1110                 |                      |                     | 10 Tulare          |                   |
| G-73995-A1 | Agricultural Tractor | Diesel    | 1978     | 186    | Tier 0   | 2019   | 236    | Tier 4 Final            | 1050                 |                      |                     | 10 Tulare          |                   |
| G-74005-A1 | Agricultural Tractor | Diesel    | 2007     | 93     | Tier 2   | 2020   | 114    | Tier 4 Final            | 340                  |                      |                     | 10 Stanislaus      |                   |
| G-74007-A1 | Agricultural Tractor | Diesel    | 1990     | 88     | Tier 0   | 2020   | 114    | Tier 4 Final            | 340                  |                      |                     | 10 Stanislaus      |                   |
| G-74012-A1 | Agricultural Tractor | Diesel    | 1985     | 97     | Tier 0   | 2018   | 115    | Tier 4 Final            | 350                  |                      |                     | 10 Kings           |                   |
| G-74025-A1 | Back Hoe             | Diesel    | 1993     | 75     | Tier 0   | 2020   | 99     | Tier 4 Final            | 250                  |                      |                     | 10 San Joaquin     |                   |
| G-74027-A1 | Sweeper              | Diesel    | 2001     | 80     | Tier 1   | 2020   | 74     | Tier 4 Final            | 450                  |                      |                     | 10 San Joaquin     |                   |
| G-74032-A1 | Agricultural Tractor | Diesel    | 2000     | 95     | Tier 1   | 2020   | 114    | Tier 4 Final            | 500                  |                      |                     | 10 Tulare          |                   |
| G-74033-A1 | Agricultural Tractor | Diesel    | 2000     | 95     | Tier 1   | 2020   | 114    | Tier 4 Final            | 500                  |                      |                     | 10 Tulare          |                   |
| G-74034-A1 | Skid Loader          | Diesel    | 1990     | 58     | Tier 0   | 2020   | 67     | Tier 4 Final            | 160                  |                      |                     | 10 Tulare          |                   |
| G-74076-A1 | Forklift             | Diesel    | 1998     | 67     | Tier 1   | 2020   | 74     | Tier 4 Final            | 1800                 |                      |                     | 10 Kern            |                   |
| G-74078-A1 | Forklift             | Diesel    | 1998     | 67     | Tier 1   | 2020   | 74     | Tier 4 Final            | 1800                 |                      |                     | 10 Kern            |                   |
| G-74194-A1 | Agricultural Tractor | Diesel    | 2003     | 115    | Tier 2   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10 Madera          |                   |
| G-74196-A1 | Agricultural Tractor | Diesel    | 2006     | 84     | Tier 2   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10 Merced          |                   |
| G-74213-A1 | Excavator            | Diesel    | 2004     | 205    | Tier 2   | 2019   | 173    | Tier 4 Final            | 1300                 |                      |                     | 10 Stanislaus      |                   |
| G-74335-A1 | Agricultural Tractor | Diesel    | 1978     | 158    | Tier 0   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10 Fresno          |                   |
| G-74341-A1 | Agricultural Tractor | Diesel    | 1981     | 158    | Tier 0   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10 Fresno          |                   |
| G-74345-A1 | Agricultural Tractor | Diesel    | 1990     | 71     | Tier 0   | 2018   | 115    | Tier 4 Final            | 300                  |                      |                     | 10 Merced          |                   |
| G-74352-A1 | Agricultural Tractor | Diesel    | 1990     | 71     | Tier 0   | 2019   | 115    | Tier 4 Final            | 300                  |                      |                     | 10 Merced          |                   |
| G-74353-A1 | Agricultural Tractor | Diesel    | 2006     | 109    | Tier 2   | 2019   | 114    | Tier 4 Final            | 750                  |                      |                     | 10 Stanislaus      |                   |
| G-74359-A1 | Agricultural Tractor | Diesel    | 2006     | 109    | Tier 2   | 2019   | 114    | Tier 4 Final            | 750                  |                      |                     | 10 Stanislaus      |                   |
| G-74361-A1 | Agricultural Tractor | Diesel    | 2006     | 109    | Tier 2   | 2019   | 114    | Tier 4 Final            | 750                  |                      |                     | 10 Stanislaus      |                   |
| G-74363-A1 | Agricultural Tractor | Diesel    | 2006     | 109    | Tier 2   | 2019   | 114    | Tier 4 Final            | 750                  |                      |                     | 10 Stanislaus      |                   |
| G-74364-A1 | Agricultural Tractor | Diesel    | 1998     | 108    | Tier 1   | 2019   | 106    | Tier 4 Final            | 200                  |                      |                     | 10 Merced          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-74365-A1 | Agricultural Tractor | Diesel    | 1975     | 84     | Tier 0   | 2019   | 115    | Tier 4 Final            | 400                  |                      |                     | 10                 | Madera            |
| G-74367-A1 | Wheel Loader         | Diesel    | 2004     | 180    | Tier 2   | 2020   | 192    | Tier 4 Final            | 1200                 |                      |                     | 10                 | Kings             |
| G-74377-A1 | Agricultural Tractor | Diesel    | 2006     | 75     | Tier 2   | 2019   | 89     | Tier 4 Final            | 1500                 |                      |                     | 10                 | Madera            |
| G-74405-A1 | Wheel Loader         | Diesel    | 1980     | 160    | Tier 0   | 2020   | 192    | Tier 4 Final            | 1200                 |                      |                     | 10                 | Fresno            |
| G-74415-A1 | Agricultural Tractor | Diesel    | 1978     | 105    | Tier 0   | 2019   | 125    | Tier 4 Final            | 300                  |                      |                     | 10                 | Tulare            |
| G-74417-A1 | Agricultural Tractor | Diesel    | 2001     | 92     | Tier 1   | 2020   | 114    | Tier 4 Final            | 300                  |                      |                     | 10                 | Merced            |
| G-74430-A1 | Agricultural Tractor | Diesel    | 1994     | 114    | Tier 0   | 2019   | 100    | Tier 4 Final            | 500                  |                      |                     | 10                 | Kern              |
| G-74865-A1 | Agricultural Tractor | Diesel    | 2004     | 134    | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 500                  |                      |                     | 10                 | Tulare            |
| G-74872-A1 | Agricultural Tractor | Diesel    | 2002     | 108    | Tier 1   | 2019   | 115    | Tier 4 Final            | 600                  |                      |                     | 10                 | Merced            |
| G-74873-A1 | Sprayer              | Diesel    | 1997     | 114    | Tier 1   | 2020   | 310    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-74874-A1 | Agricultural Tractor | Diesel    | 2003     | 175    | Tier 2   | 2020   | 195    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-74881-A1 | Agricultural Tractor | Diesel    | 2005     | 98     | Tier 2   | 2020   | 114    | Tier 4 Final            | 500                  |                      |                     | 10                 | Stanislaus        |
| G-74885-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2019   | 114    | Tier 4 Final            | 800                  |                      |                     | 10                 | Stanislaus        |
| G-74891-A1 | Agricultural Tractor | Diesel    | 1992     | 97     | Tier 0   | 2020   | 123    | Tier 4 Final            | 800                  |                      |                     | 10                 | Fresno            |
| G-74893-A1 | Wheel Loader         | Diesel    | 2004     | 131    | Tier 2   | 2018   | 173    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Kern              |
| G-74898-A1 | Wheel Loader         | Diesel    | 1995     | 125    | Tier 0   | 2018   | 173    | Tier 4 Final            | 1300                 |                      |                     | 10                 | Kern              |
| G-74899-A1 | Wheel Loader         | Diesel    | 1990     | 110    | Tier 0   | 2018   | 173    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Kern              |
| G-74901-A1 | Wheel Loader         | Diesel    | 2002     | 172    | Tier 1   | 2020   | 192    | Tier 4 Final            | 1200                 |                      |                     | 10                 | Kings             |
| G-74906-A1 | Agricultural Tractor | Diesel    | 2003     | 175    | Tier 2   | 2020   | 196    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-74907-A1 | Agricultural Tractor | Diesel    | 1984     | 87     | Tier 0   | 2019   | 99     | Tier 4 Final            | 250                  |                      |                     | 10                 | Stanislaus        |
| G-74908-A1 | Agricultural Tractor | Diesel    | 1997     | 175    | Tier 1   | 2020   | 196    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-74909-A1 | Agricultural Tractor | Diesel    | 1993     | 120    | Tier 0   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-74910-A1 | Agricultural Tractor | Diesel    | 1990     | 109    | Tier 0   | 2020   | 123    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-74915-A1 | Wheel Loader         | Diesel    | 1971     | 130    | Tier 0   | 2020   | 271    | Tier 4 Final            | 1000                 |                      |                     | 10                 | San Joaquin       |
| G-74920-A1 | Agricultural Tractor | Diesel    | 2004     | 96     | Tier 2   | 2020   | 114    | Tier 4 Final            | 800                  |                      |                     | 10                 | Stanislaus        |
| G-74921-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2019   | 114    | Tier 4 Final            | 800                  |                      |                     | 10                 | Stanislaus        |
| G-74922-A1 | Agricultural Tractor | Diesel    | 1998     | 89     | Tier 1   | 2019   | 114    | Tier 4 Final            | 1100                 |                      |                     | 10                 | Kern              |
| G-74951-A1 | Wheel Loader         | Diesel    | 2007     | 129    | Tier 2   | 2020   | 152    | Tier 4 Final            | 1500                 |                      |                     | 10                 | San Joaquin       |
| G-74957-A1 | Wheel Loader         | Diesel    | 2004     | 160    | Tier 2   | 2019   | 188    | Tier 4 Final            | 1800                 |                      |                     | 10                 | Merced            |
| G-74970-A1 | Wheel Loader         | Diesel    | 2006     | 153    | Tier 2   | 2020   | 166    | Tier 4 Final            | 2500                 |                      |                     | 10                 | Stanislaus        |
| G-74971-A1 | Wheel Loader         | Diesel    | 2006     | 153    | Tier 2   | 2020   | 166    | Tier 4 Final            | 2500                 |                      |                     | 10                 | Stanislaus        |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-74974-A1 | Agricultural Tractor | Diesel    | 1985     | 94     | Tier 0   | 2020   | 114    | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-75393-A1 | Agricultural Tractor | Diesel    | 1990     | 88     | Tier 0   | 2018   | 108    | Tier 4 Final | 1000                 |                      |                     | 10 Tulare          |                   |
| G-75397-A1 | Agricultural Tractor | Diesel    | 1986     | 97     | Tier 0   | 2018   | 101    | Tier 4 Final | 500                  |                      |                     | 10 Kings           |                   |
| G-75399-A1 | Back Hoe             | Diesel    | 1980     | 62     | Tier 0   | 2020   | 91     | Tier 4 Final | 550                  |                      |                     | 10 Stanislaus      |                   |
| G-75472-A1 | Agricultural Tractor | Diesel    | 1982     | 81     | Tier 0   | 2019   | 114    | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-75475-A1 | Agricultural Tractor | Diesel    | 1981     | 132    | Tier 0   | 2019   | 155    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-75476-A1 | Agricultural Tractor | Diesel    | 1998     | 114    | Tier 1   | 2020   | 123    | Tier 4 Final | 250                  |                      |                     | 10 Merced          |                   |
| G-75521-A1 | Wheel Loader         | Diesel    | 1985     | 85     | Tier 0   | 2019   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-75577-A2 | Agricultural Tractor | Diesel    | 1998     | 92     | Tier 1   | 2017   | 71     | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-75578-A1 | Agricultural Tractor | Diesel    | 1993     | 96     | Tier 0   | 2019   | 125    | Tier 4 Final | 1000                 |                      |                     | 10 Kern            |                   |
| G-75587-A1 | Agricultural Tractor | Diesel    | 1985     | 300    | Tier 0   | 2020   | 250    | Tier 4 Final | 3400                 |                      |                     | 10 Fresno          |                   |
| G-75596-A1 | Agricultural Tractor | Diesel    | 1994     | 120    | Tier 0   | 2020   | 139    | Tier 4 Final | 405                  |                      |                     | 10 Kern            |                   |
| G-75597-A1 | Agricultural Tractor | Diesel    | 2005     | 117    | Tier 2   | 2020   | 139    | Tier 4 Final | 741                  |                      |                     | 10 Kern            |                   |
| G-75609-A1 | Agricultural Tractor | Diesel    | 1995     | 110    | Tier 0   | 2019   | 84     | Tier 4 Final | 745                  |                      |                     | 10 Kern            |                   |
| G-75611-A1 | Agricultural Tractor | Diesel    | 1998     | 110    | Tier 1   | 2020   | 139    | Tier 4 Final | 568                  |                      |                     | 10 Kern            |                   |
| G-75613-A1 | Agricultural Tractor | Diesel    | 1998     | 110    | Tier 1   | 2020   | 139    | Tier 4 Final | 571                  |                      |                     | 10 Kern            |                   |
| G-75615-A1 | Agricultural Tractor | Diesel    | 1998     | 110    | Tier 1   | 2020   | 139    | Tier 4 Final | 571                  |                      |                     | 10 Kern            |                   |
| G-75616-A1 | Agricultural Tractor | Diesel    | 1998     | 110    | Tier 1   | 2020   | 139    | Tier 4 Final | 579                  |                      |                     | 10 Kern            |                   |
| G-75618-A1 | Agricultural Tractor | Diesel    | 1998     | 118    | Tier 1   | 2020   | 139    | Tier 4 Final | 535                  |                      |                     | 10 Kern            |                   |
| G-75683-A1 | Agricultural Tractor | Diesel    | 1979     | 72     | Tier 0   | 2019   | 106    | Tier 4 Final | 1500                 |                      |                     | 10 Stanislaus      |                   |
| G-75684-A1 | Agricultural Tractor | Diesel    | 1981     | 73     | Tier 0   | 2020   | 123    | Tier 4 Final | 300                  |                      |                     | 10 Stanislaus      |                   |
| G-75742-A1 | Back Hoe             | Diesel    | 2006     | 93     | Tier 2   | 2019   | 96     | Tier 4 Final | 400                  |                      |                     | 10 Merced          |                   |
| G-75749-A1 | Agricultural Tractor | Diesel    | 1992     | 100    | Tier 0   | 2018   | 119    | Tier 4 Final | 700                  |                      |                     | 10 Fresno          |                   |
| G-75751-A1 | Agricultural Tractor | Diesel    | 1992     | 100    | Tier 0   | 2018   | 119    | Tier 4 Final | 700                  |                      |                     | 10 Fresno          |                   |
| G-75754-A1 | Agricultural Tractor | Diesel    | 1992     | 100    | Tier 0   | 2017   | 104    | Tier 4 Final | 700                  |                      |                     | 10 Fresno          |                   |
| G-75765-A1 | Back Hoe             | Diesel    | 2005     | 80     | Tier 2   | 2020   | 90     | Tier 4 Final | 1225                 |                      |                     | 10 Merced          |                   |
| G-75767-A1 | Wheel Loader         | Diesel    | 1995     | 75     | Tier 0   | 2019   | 90     | Tier 4 Final | 1100                 |                      |                     | 10 Merced          |                   |
| G-75769-A1 | Wheel Loader         | Diesel    | 1999     | 148    | Tier 1   | 2020   | 162    | Tier 4 Final | 2500                 |                      |                     | 10 Madera          |                   |
| G-75776-A1 | Agricultural Tractor | Diesel    | 1998     | 135    | Tier 1   | 2020   | 188    | Tier 4 Final | 1000                 |                      |                     | 10 Merced          |                   |



## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-75782-A1 | Wheel Loader         | Diesel    | 2003     | 142    | Tier 1   | 2019   | 152    | Tier 4 Final | 2000                 |                      |                     | 10 Stanislaus      |                   |
| G-75844-A1 | Agricultural Tractor | Diesel    | 2001     | 79     | Tier 1   | 2018   | 101    | Tier 4 Final | 1500                 |                      |                     | 10 Kern            |                   |
| G-75861-A1 | Agricultural Tractor | Diesel    | 1978     | 71     | Tier 0   | 2020   | 99     | Tier 4 Final | 350                  |                      |                     | 10 Madera          |                   |
| G-75862-A1 | Agricultural Tractor | Diesel    | 1993     | 120    | Tier 0   | 2020   | 123    | Tier 4 Final | 350                  |                      |                     | 10 Madera          |                   |
| G-75900-A1 | Agricultural Tractor | Diesel    | 2007     | 86     | Tier 2   | 2019   | 106    | Tier 4 Final | 500                  |                      |                     | 10 Stanislaus      |                   |
| G-75904-A1 | Agricultural Tractor | Diesel    | 1996     | 68     | Tier 0   | 2020   | 123    | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-75954-A1 | Agricultural Tractor | Diesel    | 1983     | 222    | Tier 0   | 2018   | 270    | Tier 4 Final | 350                  |                      |                     | 10 Kings           |                   |
| G-75957-A1 | Agricultural Tractor | Diesel    | 1987     | 210    | Tier 0   | 2017   | 230    | Tier 4 Final | 350                  |                      |                     | 10 Kings           |                   |
| G-75963-A1 | Agricultural Tractor | Diesel    | 1976     | 180    | Tier 0   | 2020   | 256    | Tier 4 Final | 1000                 |                      |                     | 10 Tulare          |                   |
| G-75967-A1 | Agricultural Tractor | Diesel    | 2002     | 148    | Tier 1   | 2020   | 155    | Tier 4 Final | 1500                 |                      |                     | 10 Kings           |                   |
| G-75975-A1 | Back Hoe             | Diesel    | 1987     | 69     | Tier 0   | 2020   | 93     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-76029-A1 | Wheel Loader         | Diesel    | 2000     | 78     | Tier 1   | 2020   | 93     | Tier 4 Final | 1000                 |                      |                     | 10 Stanislaus      |                   |
| G-76031-A1 | Wheel Loader         | Diesel    | 2004     | 153    | Tier 2   | 2019   | 166    | Tier 4 Final | 1500                 |                      |                     | 10 Stanislaus      |                   |
| G-76032-A1 | Wheel Loader         | Diesel    | 2005     | 153    | Tier 2   | 2019   | 166    | Tier 4 Final | 1500                 |                      |                     | 10 Stanislaus      |                   |
| G-76036-A1 | Agricultural Tractor | Diesel    | 1990     | 109    | Tier 0   | 2020   | 123    | Tier 4 Final | 350                  |                      |                     | 10 Fresno          |                   |
| G-76039-A1 | Agricultural Tractor | Diesel    | 1991     | 109    | Tier 0   | 2016   | 158    | Tier 4 Final | 350                  |                      |                     | 10 Fresno          |                   |
| G-76050-A1 | Agricultural Tractor | Diesel    | 2000     | 46     | Tier 1   | 2020   | 55     | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-76093-A1 | Agricultural Tractor | Diesel    | 2001     | 118    | Tier 1   | 2020   | 139    | Tier 4 Final | 650                  |                      |                     | 10 Kern            |                   |
| G-76101-A1 | Ag Forage Harvester  | Diesel    | 1994     | 505    | Tier 0   | 2019   | 789    | Tier 4 Final | 850                  |                      |                     | 10 Stanislaus      |                   |
| G-76146-A1 | Agricultural Tractor | Diesel    | 2004     | 55     | Tier 2   | 2020   | 63     | Tier 4 Final | 2500                 |                      |                     | 10 Fresno          |                   |
| G-76147-A1 | Wheel Loader         | Diesel    | 2006     | 165    | Tier 2   | 2020   | 184    | Tier 4 Final | 1600                 |                      |                     | 10 Tulare          |                   |
| G-76149-A1 | Wheel Loader         | Diesel    | 2006     | 160    | Tier 2   | 2020   | 184    | Tier 4 Final | 1700                 |                      |                     | 10 Tulare          |                   |
| G-76151-A1 | Wheel Loader         | Diesel    | 2004     | 224    | Tier 2   | 2020   | 272    | Tier 4 Final | 1700                 |                      |                     | 10 Tulare          |                   |
| G-76152-A1 | Wheel Loader         | Diesel    | 1998     | 114    | Tier 1   | 2019   | 148    | Tier 4 Final | 3600                 |                      |                     | 10 Fresno          |                   |
| G-76171-A1 | Agricultural Tractor | Diesel    | 1991     | 97     | Tier 0   | 2019   | 71     | Tier 4 Final | 900                  |                      |                     | 10 Tulare          |                   |
| G-76183-A1 | Agricultural Tractor | Diesel    | 1999     | 310    | Tier 1   | 2020   | 405    | Tier 4 Final | 2000                 |                      |                     | 10 Kern            |                   |
| G-76184-A1 | Agricultural Tractor | Diesel    | 1959     | 61     | Tier 0   | 2019   | 55     | Tier 4 Final | 100                  |                      |                     | 10 Tulare          |                   |
| G-76263-A1 | Agricultural Tractor | Diesel    | 1966     | 58     | Tier 0   | 2019   | 59     | Tier 4 Final | 100                  |                      |                     | 10 Tulare          |                   |
| G-76264-A1 | Agricultural Tractor | Diesel    | 1998     | 99     | Tier 1   | 2020   | 123    | Tier 4 Final | 400                  |                      |                     | 10 Madera          |                   |



## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-76495-A1 | Cotton Picker        | Diesel    | 2005     | 350    | Tier 2   | 2019   | 560    | Tier 4 Final | 700                  |                      |                     | 10 Kings           |                   |
| G-76495-A1 | Cotton Picker        | Diesel    | 2005     | 350    | Tier 2   |        |        |              |                      |                      |                     | Kings              |                   |
| G-76507-A1 | Wheel Loader         | Diesel    | 2006     | 153    | Tier 2   | 2020   | 166    | Tier 4 Final | 2500                 |                      |                     | 10 Madera          |                   |
| G-76513-A1 | Wheel Loader         | Diesel    | 1968     | 173    | Tier 2   | 2020   | 166    | Tier 4 Final | 1000                 |                      |                     | 10 Tulare          |                   |
| G-76522-A1 | Agricultural Tractor | Diesel    | 1996     | 93     | Tier 0   | 2019   | 115    | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-76526-A1 | Agricultural Tractor | Diesel    | 2002     | 113    | Tier 1   | 2020   | 139    | Tier 4 Final | 690                  |                      |                     | 10 Kern            |                   |
| G-76543-A1 | Agricultural Tractor | Diesel    | 1995     | 120    | Tier 0   | 2020   | 139    | Tier 4 Final | 650                  |                      |                     | 10 Kern            |                   |
| G-76590-A1 | Wheel Loader         | Diesel    | 1975     | 65     | Tier 0   | 2020   | 99     | Tier 4 Final | 800                  |                      |                     | 10 Tulare          |                   |
| G-76596-A1 | Shaker               | Diesel    | 2003     | 155    | Tier 2   | 2018   | 148    | Tier 4 Final | 500                  |                      |                     | 10 Kern            |                   |
| G-76597-A1 | Shaker               | Diesel    | 2003     | 130    | Tier 2   | 2019   | 148    | Tier 4 Final | 500                  |                      |                     | 10 Kern            |                   |
| G-76619-A1 | Shaker               | Diesel    | 2006     | 130    | Tier 2   | 2019   | 148    | Tier 4 Final | 500                  |                      |                     | 10 Kern            |                   |
| G-76620-A1 | Shaker               | Diesel    | 2006     | 155    | Tier 2   | 2019   | 148    | Tier 4 Final | 500                  |                      |                     | 10 Kern            |                   |
| G-76621-A1 | Shaker               | Diesel    | 2007     | 155    | Tier 2   | 2019   | 148    | Tier 4 Final | 500                  |                      |                     | 10 Kern            |                   |
| G-76631-A1 | Agricultural Tractor | Diesel    | 2008     | 115    | Tier 1   | 2020   | 125    | Tier 4 Final | 500                  |                      |                     | 10 Madera          |                   |
| G-76635-A1 | Agricultural Tractor | Diesel    | 2002     | 89     | Tier 1   | 2019   | 90     | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-76636-A1 | Agricultural Tractor | Diesel    | 1997     | 99     | Tier 0   | 2019   | 114    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-76639-A1 | Excavator            | Diesel    | 2006     | 147    | Tier 2   | 2020   | 166    | Tier 4 Final | 1500                 |                      |                     | 10 San Joaquin     |                   |
| G-76643-A1 | Agricultural Tractor | Diesel    | 1992     | 88     | Tier 0   | 2020   | 123    | Tier 4 Final | 1000                 |                      |                     | 10 Madera          |                   |
| G-76768-A2 | Agricultural Tractor | Diesel    | 2006     | 52     | Tier 2   | 2020   | 73     | Tier 4 Final | 275                  |                      |                     | 10 Kings           |                   |
| G-76783-A1 | Excavator            | Diesel    | 2005     | 345    | Tier 2   | 2019   | 264    | Tier 4 Final | 2000                 |                      |                     | 10 San Joaquin     |                   |
| G-76789-A1 | Nut Sweeper          | Diesel    | 1991     | 80     | Tier 0   | 2020   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-76791-A1 | Agricultural Tractor | Diesel    | 1990     | 109    | Tier 0   | 2019   | 114    | Tier 4 Final | 370                  |                      |                     | 10 Fresno          |                   |
| G-76796-A1 | Agricultural Tractor | Diesel    | 2006     | 105    | Tier 2   | 2019   | 115    | Tier 4 Final | 650                  |                      |                     | 10 Tulare          |                   |
| G-76797-A1 | Wheel Loader         | Diesel    | 2006     | 160    | Tier 2   | 2019   | 268    | Tier 4 Final | 2000                 |                      |                     | 10 San Joaquin     |                   |
| G-76799-A1 | Agricultural Tractor | Diesel    | 2002     | 115    | Tier 1   | 2019   | 114    | Tier 4 Final | 700                  |                      |                     | 10 Fresno          |                   |
| G-76800-A1 | Agricultural Tractor | Diesel    | 1993     | 97     | Tier 0   | 2019   | 114    | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-76802-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2017   | 114    | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-76803-A1 | Agricultural Tractor | Diesel    | 2002     | 115    | Tier 1   | 2019   | 114    | Tier 4 Final | 700                  |                      |                     | 10 Fresno          |                   |
| G-76805-A1 | Agricultural Tractor | Diesel    | 2002     | 115    | Tier 1   | 2019   | 114    | Tier 4 Final | 700                  |                      |                     | 10 Fresno          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-76820-A1 | Agricultural Tractor | Diesel    | 1978     | 67     | Tier 0   | 2020   | 40     | Tier 4 Final | 100                  |                      |                     | 10                 | Fresno            |
| G-76845-A1 | Agricultural Tractor | Diesel    | 1998     | 108    | Tier 1   | 2018   | 74     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| G-76849-A1 | Swathers             | Diesel    | 1999     | 152    | Tier 1   | 2018   | 266    | Tier 4 Final | 750                  |                      |                     | 10                 | Stanislaus        |
| G-76862-A1 | Agricultural Tractor | Diesel    | 2005     | 153    | Tier 2   | 2020   | 123    | Tier 4 Final | 600                  |                      |                     | 10                 | Merced            |
| G-76863-A1 | Agricultural Tractor | Diesel    | 1998     | 109    | Tier 1   | 2019   | 115    | Tier 4 Final | 600                  |                      |                     | 10                 | Kern              |
| G-76866-A1 | Wheel Loader         | Diesel    | 2002     | 142    | Tier 1   | 2020   | 192    | Tier 4 Final | 1500                 |                      |                     | 10                 | Tulare            |
| G-76870-A1 | Skid Loader          | Diesel    | 2004     | 90     | Tier 2   | 2020   | 73     | Tier 4 Final | 1500                 |                      |                     | 10                 | San Joaquin       |
| G-76872-A1 | Agricultural Tractor | Diesel    | 2004     | 99     | Tier 2   | 2020   | 101    | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| G-76876-A1 | Wheel Loader         | Diesel    | 2005     | 232    | Tier 2   | 2020   | 192    | Tier 4 Final | 1600                 |                      |                     | 10                 | Kern              |
| G-76917-A1 | Agricultural Tractor | Diesel    | 1981     | 48     | Tier 0   | 2020   | 40     | Tier 4 Final | 50                   |                      |                     | 10                 | Fresno            |
| G-76926-A1 | Agricultural Tractor | Diesel    | 2005     | 504    | Tier 2   | 2020   | 611    | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| G-77043-A1 | Back Hoe             | Diesel    | 1996     | 92     | Tier 0   | 2019   | 93     | Tier 4 Final | 1000                 |                      |                     | 10                 | Fresno            |
| G-77050-A1 | Forklift             | Diesel    | 2001     | 80     | Tier 1   | 2020   | 74     | Tier 4 Final | 1000                 |                      |                     | 10                 | Fresno            |
| G-77057-A1 | Sweeper              | Diesel    | 2002     | 46     | Tier 1   | 2019   | 74     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| G-77105-A1 | Shaker               | Diesel    | 2006     | 80     | Tier 2   | 2019   | 121    | Tier 4 Final | 750                  |                      |                     | 10                 | Madera            |
| G-77110-A1 | Pistachio Catcher    | Diesel    | 2006     | 80     | Tier 2   | 2019   | 121    | Tier 4 Final | 750                  |                      |                     | 10                 | Madera            |
| G-77116-A1 | Agricultural Tractor | Diesel    | 1975     | 80     | Tier 0   | 2020   | 114    | Tier 4 Final | 600                  |                      |                     | 10                 | Merced            |
| G-77133-A1 | Agricultural Tractor | Diesel    | 1990     | 34     | Tier 0   | 2019   | 36     | Tier 4 Final | 1000                 |                      |                     | 10                 | Tulare            |
| G-77135-A1 | Agricultural Tractor | Diesel    | 2006     | 504    | Tier 2   | 2020   | 515    | Tier 4 Final | 900                  |                      |                     | 10                 | Merced            |
| G-77156-A1 | Agricultural Tractor | Diesel    | 1980     | 97     | Tier 0   | 2018   | 108    | Tier 4 Final | 1200                 |                      |                     | 10                 | Tulare            |
| G-77160-A1 | Agricultural Tractor | Diesel    | 1977     | 74     | Tier 0   | 2018   | 108    | Tier 4 Final | 1200                 |                      |                     | 10                 | Tulare            |
| G-77183-A1 | Agricultural Tractor | Diesel    | 1987     | 77     | Tier 0   | 2020   | 114    | Tier 4 Final | 250                  |                      |                     | 10                 | Merced            |
| G-77190-A1 | Agricultural Tractor | Diesel    | 1996     | 85     | Tier 0   | 2020   | 123    | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| G-77195-A1 | Wheel Loader         | Diesel    | 1993     | 98     | Tier 0   | 2020   | 166    | Tier 4 Final | 850                  |                      |                     | 10                 | Tulare            |
| G-77367-A1 | Wheel Loader         | Diesel    | 1974     | 93     | Tier 0   | 2018   | 154    | Tier 4 Final | 1500                 |                      |                     | 10                 | Kings             |
| G-77370-A1 | Wheel Loader         | Diesel    | 1978     | 93     | Tier 0   | 2020   | 124    | Tier 4 Final | 1500                 |                      |                     | 10                 | Kings             |
| G-77372-A1 | Wheel Loader         | Diesel    | 1995     | 150    | Tier 0   | 2020   | 166    | Tier 4 Final | 1500                 |                      |                     | 10                 | Kings             |
| G-77922-A1 | Agricultural Tractor | Diesel    | 1993     | 240    | Tier 0   | 2019   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-77926-A1 | Agricultural Tractor | Diesel    | 1990     | 240    | Tier 0   | 2020   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-77933-A1 | Agricultural Tractor | Diesel    | 1983     | 130    | Tier 0   | 2019   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-77936-A1 | Agricultural Tractor | Diesel    | 2001     | 200    | Tier 1   | 2020   | 250    | Tier 4 Final | 1200                 |                      |                     | 10                 | Merced            |
| G-77938-A1 | Agricultural Tractor | Diesel    | 2003     | 208    | Tier 1   | 2020   | 340    | Tier 4 Final | 1200                 |                      |                     | 10                 | Merced            |
| G-77939-A1 | Agricultural Tractor | Diesel    | 1978     | 108    | Tier 0   | 2019   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-77986-A1 | Agricultural Tractor | Diesel    | 1994     | 32     | Tier 0   | 2019   | 73     | Tier 4 Final | 550                  |                      |                     | 10                 | Merced            |
| G-77989-A1 | Agricultural Tractor | Diesel    | 2003     | 231    | Tier 2   | 2020   | 282    | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| G-77991-A1 | Agricultural Tractor | Diesel    | 1998     | 110    | Tier 1   | 2019   | 153    | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| G-77999-A1 | Agricultural Tractor | Diesel    | 2003     | 129    | Tier 1   | 2020   | 139    | Tier 4 Final | 860                  |                      |                     | 10                 | Tulare            |
| G-78000-A1 | Agricultural Tractor | Diesel    | 1976     | 60     | Tier 0   | 2019   | 73     | Tier 4 Final | 220                  |                      |                     | 10                 | San Joaquin       |
| G-78001-A1 | Agricultural Tractor | Diesel    | 1998     | 205    | Tier 1   | 2020   | 342    | Tier 4 Final | 915                  |                      |                     | 10                 | Tulare            |
| G-78002-A1 | Agricultural Tractor | Diesel    | 1984     | 154    | Tier 0   | 2020   | 123    | Tier 4 Final | 300                  |                      |                     | 10                 | Merced            |
| G-78004-A1 | Agricultural Tractor | Diesel    | 1988     | 97     | Tier 0   | 2019   | 123    | Tier 4 Final | 300                  |                      |                     | 10                 | Merced            |
| G-78006-A1 | Agricultural Tractor | Diesel    | 1989     | 204    | Tier 0   | 2020   | 123    | Tier 4 Final | 300                  |                      |                     | 10                 | Merced            |
| G-78027-A1 | Agricultural Tractor | Diesel    | 1985     | 168    | Tier 0   | 2020   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78029-A1 | Agricultural Tractor | Diesel    | 1993     | 90     | Tier 0   | 2018   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78030-A1 | Agricultural Tractor | Diesel    | 1987     | 88     | Tier 0   | 2019   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78031-A1 | Agricultural Tractor | Diesel    | 1979     | 132    | Tier 0   | 2020   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78032-A1 | Agricultural Tractor | Diesel    | 1980     | 108    | Tier 0   | 2019   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78033-A1 | Agricultural Tractor | Diesel    | 1978     | 156    | Tier 0   | 2019   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78034-A1 | Agricultural Tractor | Diesel    | 1979     | 156    | Tier 0   | 2019   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78037-A1 | Agricultural Tractor | Diesel    | 1974     | 151    | Tier 0   | 2020   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78050-A1 | Almond Sweeper       | Diesel    | 2007     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10                 | Kern              |
| G-78053-A1 | Almond Sweeper       | Diesel    | 2006     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10                 | Kern              |
| G-78054-A1 | Almond Sweeper       | Diesel    | 2007     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10                 | Kern              |
| G-78055-A1 | Almond Sweeper       | Diesel    | 2007     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10                 | Kern              |
| G-78056-A1 | Agricultural Tractor | Diesel    | 1982     | 132    | Tier 0   | 2020   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78057-A1 | Agricultural Tractor | Diesel    | 1995     | 174    | Tier 0   | 2019   | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| G-78059-A1 | Almond Sweeper       | Diesel    | 2007     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10                 | Kern              |
| G-78060-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10                 | Kern              |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-78061-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78062-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78065-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78066-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78068-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78070-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78071-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78077-A1 | Almond Sweeper       | Diesel    | 2007     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10 Kern            |                   |
| G-78095-A1 | Almond Sweeper       | Diesel    | 2006     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10 Kern            |                   |
| G-78096-A1 | Almond Sweeper       | Diesel    | 2006     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10 Kern            |                   |
| G-78097-A1 | Almond Sweeper       | Diesel    | 2007     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10 Kern            |                   |
| G-78102-A1 | Almond Sweeper       | Diesel    | 2006     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final | 1200                 |                      |                     | 10 Kern            |                   |
| G-78104-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78105-A1 | Almond Shaker        | Diesel    | 2007     | 170    | Tier 2   | 2019   | 148    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78541-A1 | Agricultural Tractor | Diesel    | 1994     | 120    | Tier 0   | 2019   | 130    | Tier 4 Final | 1500                 |                      |                     | 10 Kings           |                   |
| G-78544-A2 | Almond Sweeper       | Diesel    | 1996     | 80     | Tier 0   | 2020   | 74     | Tier 4 Final | 180                  |                      |                     | 10 Kern            |                   |
| G-78546-A2 | Almond Shaker        | Diesel    | 1982     | 104    | Tier 0   | 2020   | 139    | Tier 4 Final | 160                  |                      |                     | 10 Kern            |                   |
| G-78547-A2 | Almond Shaker        | Diesel    | 1992     | 121    | Tier 0   | 2020   | 139    | Tier 4 Final | 220                  |                      |                     | 10 Kern            |                   |
| G-78548-A1 | Agricultural Tractor | Diesel    | 1966     | 110    | Tier 0   | 2020   | 114    | Tier 4 Final | 200                  |                      |                     | 10 Kings           |                   |
| G-78553-A1 | Sweeper              | Diesel    | 2003     | 80     | Tier 1   | 2020   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-78554-A1 | Sweeper              | Diesel    | 2002     | 80     | Tier 1   | 2020   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-78555-A1 | Sweeper              | Diesel    | 2006     | 80     | Tier 1   | 2020   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-78556-A1 | Sweeper              | Diesel    | 2003     | 80     | Tier 1   | 2020   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-78557-A1 | Sweeper              | Diesel    | 2002     | 80     | Tier 1   | 2020   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-78558-A1 | Sweeper              | Diesel    | 2000     | 80     | Tier 1   | 2019   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-78559-A1 | Agricultural Tractor | Diesel    | 1988     | 144    | Tier 0   | 2019   | 115    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78560-A1 | Sweeper              | Diesel    | 1997     | 80     | Tier 0   | 2020   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-78561-A1 | Agricultural Tractor | Diesel    | 1982     | 108    | Tier 0   | 2019   | 115    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78562-A1 | Agricultural Tractor | Diesel    | 1986     | 90     | Tier 0   | 2019   | 115    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-78563-A1 | Agricultural Tractor | Diesel    | 1999     | 114    | Tier 1   | 2020   | 123    | Tier 4 Final | 750                  |                      |                     | 10 Stanislaus      |                   |
| G-78565-A1 | Wheel Loader         | Diesel    | 1992     | 160    | Tier 0   | 2020   | 192    | Tier 4 Final | 1500                 |                      |                     | 10 Tulare          |                   |
| G-78578-A1 | Agricultural Tractor | Diesel    | 1997     | 121    | Tier 1   | 2018   | 171    | Tier 4 Final | 800                  |                      |                     | 10 Kern            |                   |
| G-78581-A1 | Agricultural Tractor | Diesel    | 2006     | 89     | Tier 2   | 2020   | 114    | Tier 4 Final | 600                  |                      |                     | 10 Stanislaus      |                   |
| G-78618-A1 | Agricultural Tractor | Diesel    | 2005     | 109    | Tier 2   | 2020   | 114    | Tier 4 Final | 1250                 |                      |                     | 10 Tulare          |                   |
| G-78620-A1 | Agricultural Tractor | Diesel    | 1992     | 168    | Tier 0   | 2019   | 123    | Tier 4 Final | 600                  |                      |                     | 10 Fresno          |                   |
| G-78699-A1 | Forklift             | Diesel    | 1994     | 52     | Tier 0   | 2019   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-78701-A1 | Bin Carrier          | Diesel    | 2005     | 80     | Tier 1   | 2019   | 74     | Tier 4 Final | 600                  |                      |                     | 10 Fresno          |                   |
| G-78702-A1 | Tomato Harvester     | Diesel    | 2005     | 225    | Tier 2   | 2020   | 225    | Tier 4 Final | 1400                 |                      |                     | 10 Kings           |                   |
| G-78704-A1 | Tomato Harvester     | Diesel    | 2006     | 225    | Tier 2   | 2020   | 225    | Tier 4 Final | 1400                 |                      |                     | 10 Kings           |                   |
| G-78713-A1 | Agricultural Tractor | Diesel    | 1977     | 300    | Tier 0   | 2017   | 310    | Tier 4 Final | 2600                 |                      |                     | 10 Fresno          |                   |
| G-78721-A1 | Sprayer              | Diesel    | 1975     | 47     | Tier 0   | 2020   | 65     | Tier 4 Final | 225                  |                      |                     | 10 San Joaquin     |                   |
| G-78791-A1 | Agricultural Tractor | Diesel    | 2002     | 115    | Tier 1   | 2019   | 115    | Tier 4 Final | 1000                 |                      |                     | 10 Kern            |                   |
| G-78813-A1 | Agricultural Tractor | Diesel    | 2007     | 86     | Tier 2   | 2020   | 123    | Tier 4 Final | 1000                 |                      |                     | 10 Fresno          |                   |
| G-78815-A1 | Agricultural Tractor | Diesel    | 2004     | 86     | Tier 2   | 2020   | 123    | Tier 4 Final | 1000                 |                      |                     | 10 Fresno          |                   |
| G-78820-A1 | Agricultural Tractor | Diesel    | 2002     | 115    | Tier 1   | 2019   | 115    | Tier 4 Final | 1000                 |                      |                     | 10 Kern            |                   |
| G-78825-A1 | Agricultural Tractor | Diesel    | 2007     | 86     | Tier 2   | 2020   | 123    | Tier 4 Final | 1000                 |                      |                     | 10 Fresno          |                   |
| G-78971-A1 | Almond Sweeper       | Diesel    | 1997     | 42     | Tier 0   | 2020   | 74     | Tier 4 Final | 320                  |                      |                     | 10 Fresno          |                   |
| G-78988-A1 | Wheel Loader         | Diesel    | 1987     | 291    | Tier 0   | 2019   | 269    | Tier 4 Final | 1500                 |                      |                     | 10 Fresno          |                   |
| G-78992-A1 | Agricultural Tractor | Diesel    | 2004     | 220    | Tier 2   | 2019   | 219    | Tier 4 Final | 900                  |                      |                     | 10 Tulare          |                   |
| G-79000-A1 | Agricultural Tractor | Diesel    | 2003     | 220    | Tier 2   | 2019   | 219    | Tier 4 Final | 900                  |                      |                     | 10 Tulare          |                   |
| G-79116-A1 | Wheel Loader         | Diesel    | 1978     | 80     | Tier 0   | 2019   | 73     | Tier 4 Final | 550                  |                      |                     | 10 Kings           |                   |
| G-79316-A1 | Agricultural Tractor | Diesel    | 2003     | 220    | Tier 2   | 2019   | 219    | Tier 4 Final | 900                  |                      |                     | 10 Tulare          |                   |
| G-79317-A1 | Agricultural Tractor | Diesel    | 2005     | 220    | Tier 2   | 2019   | 219    | Tier 4 Final | 900                  |                      |                     | 10 Tulare          |                   |
| G-79324-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final | 170                  |                      |                     | 10 Tulare          |                   |
| G-79326-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final | 172                  |                      |                     | 10 Tulare          |                   |
| G-79330-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final | 175                  |                      |                     | 10 Tulare          |                   |
| G-79332-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final | 182                  |                      |                     | 10 Tulare          |                   |
| G-79334-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final | 127                  |                      |                     | 10 Tulare          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-79335-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final            | 224                  |                      |                     | 10 Tulare          |                   |
| G-79340-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final            | 175                  |                      |                     | 10 Tulare          |                   |
| G-79345-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final            | 195                  |                      |                     | 10 Tulare          |                   |
| G-79346-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final            | 182                  |                      |                     | 10 Tulare          |                   |
| G-79348-A1 | Agricultural Tractor | Diesel    | 1997     | 32     | Tier 0   | 2020   | 33     | Tier 4 Final            | 179                  |                      |                     | 10 Tulare          |                   |
| G-79357-A1 | Agricultural Tractor | Diesel    | 1999     | 92     | Tier 1   | 2018   | 106    | Tier 4 Final            | 540                  |                      |                     | 10 Tulare          |                   |
| G-79551-A1 | Agricultural Tractor | Diesel    | 1998     | 110    | Tier 1   | 2020   | 139    | Tier 4 Final            | 571                  |                      |                     | 10 Kern            |                   |
| G-79601-A1 | Agricultural Tractor | Diesel    | 2003     | 117    | Tier 2   | 2020   | 139    | Tier 4 Final            | 406                  |                      |                     | 10 Kern            |                   |
| G-79645-A1 | Agricultural Tractor | Diesel    | 1994     | 127    | Tier 0   | 2020   | 114    | Tier 4 Final            | 400                  |                      |                     | 10 Merced          |                   |
| G-79696-A2 | Agricultural Tractor | Diesel    | 2005     | 283    | Tier 2   | 2020   | 311    | Tier 4 Final            | 2500                 |                      |                     | 10 Kern            |                   |
| G-79699-A1 | Wheel Loader         | Diesel    | 1997     | 180    | Tier 1   | 2020   | 182    | Tier 4 Final            | 2900                 |                      |                     | 10 Kern            |                   |
| G-79701-A1 | Wheel Loader         | Diesel    | 2003     | 160    | Tier 2   | 2020   | 182    | Tier 4 Final            | 2900                 |                      |                     | 10 Kern            |                   |
| G-79706-A1 | Agricultural Tractor | Diesel    | 2005     | 207    | Tier 2   | 2020   | 250    | Tier 4 Final            | 1000                 |                      |                     | 10 Madera          |                   |
| G-79718-A1 | Wheel Loader         | Diesel    | 2000     | 101    | Tier 1   | 2019   | 158    | Tier 4 Final            | 1500                 |                      |                     | 10 Kings           |                   |
| G-79720-A1 | Agricultural Tractor | Diesel    | 1973     | 76     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 500                  |                      |                     | 10 Fresno          |                   |
| G-79722-A1 | Agricultural Tractor | Diesel    | 2004     | 160    | Tier 2   | 2019   | 155    | Tier 4 Final            | 900                  |                      |                     | 10 Merced          |                   |
| G-79790-A1 | Agricultural Tractor | Diesel    | 1997     | 270    | Tier 1   | 2018   | 375    | Tier 4 Final            | 460                  |                      |                     | 10 Merced          |                   |
| G-79837-A1 | Agricultural Tractor | Diesel    | 1998     | 120    | Tier 1   | 2019   | 110    | Tier 4 Final            | 520                  |                      |                     | 10 Stanislaus      |                   |
| G-79840-A1 | Agricultural Tractor | Diesel    | 1990     | 110    | Tier 0   | 2019   | 110    | Tier 4 Final            | 100                  |                      |                     | 10 Stanislaus      |                   |
| G-79844-A1 | Agricultural Tractor | Diesel    | 2004     | 134    | Tier 2   | 2020   | 210    | Tier 4 Final            | 1000                 |                      |                     | 10 Tulare          |                   |
| G-79847-A1 | Agricultural Tractor | Diesel    | 1987     | 63     | Tier 0   | 2019   | 73     | Tier 4 Final            | 500                  |                      |                     | 10 Tulare          |                   |
| G-79850-A1 | Cotton Harvester     | Diesel    | 1993     | 250    | Tier 0   | 2019   | 560    | Tier 4 Final            | 600                  |                      |                     | 10 Fresno          |                   |
| G-79850-A1 | Cotton Harvester     | Diesel    | 1993     | 250    | Tier 0   |        |        |                         |                      |                      |                     | Fresno             |                   |
| G-79867-A1 | Wheel Tractor        | Diesel    | 1998     | 89     | Tier 1   | 2020   | 114    | Tier 4 Final            | 400                  |                      |                     | 10 Madera          |                   |
| G-79870-A1 | Chopper              | Diesel    | 1996     | 496    | Tier 1   | 2018   | 617    | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-79874-A1 | Agricultural Tractor | Diesel    | 1982     | 97     | Tier 0   | 2020   | 123    | Tier 4 Final            | 300                  |                      |                     | 10 Merced          |                   |
| G-79940-A1 | Agricultural Tractor | Diesel    | 2006     | 115    | Tier 2   | 2019   | 123    | Tier 4 Final            | 400                  |                      |                     | 10 Fresno          |                   |
| G-79968-A1 | Agricultural Tractor | Diesel    | 1981     | 69     | Tier 0   | 2019   | 98     | Tier 4 Phase In/Alt NOx | 750                  |                      |                     | 10 Tulare          |                   |
| G-79999-A1 | Agricultural Tractor | Diesel    | 2006     | 115    | Tier 2   | 2019   | 123    | Tier 4 Final            | 400                  |                      |                     | 10 Fresno          |                   |



## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-80038-A1 | Agricultural Tractor | Diesel    | 2001     | 100    | Tier 1   | 2020   | 120    | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| G-80506-A1 | Agricultural Tractor | Diesel    | 2005     | 92     | Tier 2   | 2019   | 114    | Tier 4 Final | 1000                 |                      |                     | 10                 | Kern              |
| G-80523-A1 | Tomato Harvester     | Diesel    | 1990     | 190    | Tier 0   | 2019   | 225    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| G-80543-A1 | Agricultural Tractor | Diesel    | 1960     | 49     | Tier 0   | 2019   | 73     | Tier 4 Final | 200                  |                      |                     | 10                 | Stanislaus        |
| G-80546-A1 | Skid Loader          | Diesel    | 2001     | 59     | Tier 1   | 2019   | 73     | Tier 4 Final | 600                  |                      |                     | 10                 | Stanislaus        |
| G-80561-A1 | Wheel Loader         | Diesel    | 1994     | 250    | Tier 0   | 2020   | 307    | Tier 4 Final | 1300                 |                      |                     | 10                 | Stanislaus        |
| G-80783-A1 | Sprayer              | Diesel    | 1967     | 63     | Tier 0   | 2020   | 65     | Tier 4 Final | 200                  |                      |                     | 10                 | Stanislaus        |
| G-80784-A1 | Shaker               | Diesel    | 2007     | 165    | Tier 2   | 2020   | 148    | Tier 4 Final | 1000                 |                      |                     | 10                 | Stanislaus        |
| G-80844-A1 | Wheel Loader         | Diesel    | 1986     | 85     | Tier 0   | 2018   | 164    | Tier 4 Final | 1200                 |                      |                     | 10                 | Tulare            |
| G-80870-A1 | Agricultural Tractor | Diesel    | 1988     | 215    | Tier 1   | 2020   | 311    | Tier 4 Final | 3500                 |                      |                     | 10                 | Tulare            |
| G-80875-A1 | Agricultural Tractor | Diesel    | 2000     | 135    | Tier 1   | 2020   | 173    | Tier 4 Final | 1500                 |                      |                     | 10                 | Tulare            |
| G-80876-A1 | Agricultural Tractor | Diesel    | 1995     | 46     | Tier 0   | 2020   | 123    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| G-80877-A1 | Agricultural Tractor | Diesel    | 1995     | 46     | Tier 0   | 2020   | 123    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| G-80878-A1 | Agricultural Tractor | Diesel    | 1993     | 56     | Tier 0   | 2020   | 123    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| G-80917-A1 | Agricultural Backhoe | Diesel    | 2005     | 95     | Tier 2   | 2019   | 96     | Tier 4 Final | 500                  |                      |                     | 10                 | Kern              |
| G-80928-A1 | Agricultural Tractor | Diesel    | 1993     | 285    | Tier 0   | 2020   | 340    | Tier 4 Final | 700                  |                      |                     | 10                 | Merced            |
| G-80930-A1 | Agricultural Tractor | Diesel    | 2007     | 95     | Tier 2   | 2019   | 114    | Tier 4 Final | 600                  |                      |                     | 10                 | Kern              |
| G-80934-A1 | Agricultural Tractor | Diesel    | 2006     | 105    | Tier 2   | 2019   | 114    | Tier 4 Final | 600                  |                      |                     | 10                 | Kern              |
| G-80935-A1 | Agricultural Tractor | Diesel    | 2006     | 105    | Tier 2   | 2019   | 114    | Tier 4 Final | 600                  |                      |                     | 10                 | Kern              |
| G-80949-A1 | Agricultural Tractor | Diesel    | 1998     | 100    | Tier 1   | 2020   | 115    | Tier 4 Final | 1000                 |                      |                     | 10                 | Fresno            |
| G-80955-A1 | Sweeper              | Diesel    | 1995     | 85     | Tier 0   | 2020   | 74     | Tier 4 Final | 450                  |                      |                     | 10                 | San Joaquin       |
| G-80956-A1 | Agricultural Tractor | Diesel    | 1977     | 150    | Tier 0   | 2020   | 123    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| G-80959-A1 | Agricultural Tractor | Diesel    | 2004     | 115    | Tier 2   | 2019   | 114    | Tier 4 Final | 2000                 |                      |                     | 10                 | Kern              |
| G-80981-A1 | Agricultural Tractor | Diesel    | 1978     | 54     | Tier 0   | 2019   | 45     | Tier 4 Final | 1500                 |                      |                     | 10                 | Tulare            |
| G-80982-A1 | Agricultural Tractor | Diesel    | 1978     | 102    | Tier 0   | 2018   | 101    | Tier 4 Final | 1500                 |                      |                     | 10                 | Tulare            |
| G-81066-A1 | Wheel Loader         | Diesel    | 1994     | 235    | Tier 0   | 2018   | 230    | Tier 4 Final | 2000                 |                      |                     | 10                 | Kern              |
| G-81162-A1 | Windrower            | Diesel    | 2004     | 108    | Tier 2   | 2019   | 266    | Tier 4 Final | 450                  |                      |                     | 10                 | Kern              |
| G-81169-A1 | Windrower            | Diesel    | 2004     | 108    | Tier 2   | 2019   | 266    | Tier 4 Final | 450                  |                      |                     | 10                 | Kern              |
| G-81170-A1 | Agricultural Tractor | Diesel    | 1983     | 90     | Tier 0   | 2018   | 99     | Tier 4 Final | 500                  |                      |                     | 10                 | Kern              |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-81171-A1 | Agricultural Tractor | Diesel    | 1996     | 68     | Tier 0   | 2019   | 99     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81172-A1 | Agricultural Tractor | Diesel    | 1996     | 90     | Tier 0   | 2019   | 99     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81174-A1 | Agricultural Tractor | Diesel    | 1996     | 68     | Tier 0   | 2019   | 99     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81177-A1 | Agricultural Tractor | Diesel    | 1995     | 68     | Tier 0   | 2019   | 99     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81183-A1 | Agricultural Tractor | Diesel    | 1994     | 90     | Tier 0   | 2019   | 99     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81185-A1 | Agricultural Tractor | Diesel    | 1996     | 90     | Tier 0   | 2019   | 99     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81245-A1 | Agricultural Tractor | Diesel    | 1996     | 90     | Tier 0   | 2019   | 99     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81247-A1 | Agricultural Tractor | Diesel    | 1991     | 88     | Tier 0   | 2019   | 99     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81249-A1 | Agricultural Tractor | Diesel    | 1983     | 168    | Tier 0   | 2019   | 114    | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81260-A1 | Agricultural Tractor | Diesel    | 1999     | 226    | Tier 1   | 2020   | 245    | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81771-A1 | Sprayer              | Diesel    | 1990     | 70     | Tier 0   | 2017   | 64     | Tier 4 Final            | 300                  |                      |                     | 10 Tulare          |                   |
| G-81807-A1 | Agricultural Tractor | Diesel    | 1987     | 81     | Tier 0   | 2020   | 73     | Tier 4 Final            | 150                  |                      |                     | 10 Tulare          |                   |
| G-81808-A1 | Agricultural Tractor | Diesel    | 1985     | 228    | Tier 0   | 2019   | 218    | Tier 4 Final            | 800                  |                      |                     | 10 Kern            |                   |
| G-81833-A1 | Agricultural Tractor | Diesel    | 1990     | 335    | Tier 0   | 2019   | 570    | Tier 4 Final            | 500                  |                      |                     | 10 Merced          |                   |
| G-81846-A1 | Agricultural Tractor | Diesel    | 1976     | 100    | Tier 0   | 2019   | 114    | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81848-A1 | Agricultural Tractor | Diesel    | 1993     | 100    | Tier 0   | 2019   | 114    | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81863-A1 | Sprayer              | Diesel    | 1984     | 62     | Tier 0   | 2020   | 64     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-81882-A1 | Agricultural Tractor | Diesel    | 2003     | 119    | Tier 2   | 2016   | 106    | Tier 4 Phase In/Alt NOx | 750                  |                      |                     | 10 Merced          |                   |
| G-81884-A1 | Agricultural Tractor | Diesel    | 1984     | 28     | Tier 0   | 2019   | 30     | Tier 4 Final            | 100                  |                      |                     | 10 Stanislaus      |                   |
| G-81910-A1 | Agricultural Tractor | Diesel    | 1998     | 180    | Tier 1   | 2020   | 250    | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |
| G-81911-A1 | Agricultural Tractor | Diesel    | 1996     | 100    | Tier 0   | 2020   | 115    | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |
| G-81913-A1 | Agricultural Tractor | Diesel    | 1997     | 114    | Tier 1   | 2020   | 123    | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |
| G-81957-A1 | Agricultural Tractor | Diesel    | 1985     | 130    | Tier 0   | 2020   | 155    | Tier 4 Final            | 300                  |                      |                     | 10 Kings           |                   |
| G-81961-A1 | Agricultural Tractor | Diesel    | 1982     | 37     | Tier 0   | 2019   | 48     | Tier 4 Final            | 275                  |                      |                     | 10 Kern            |                   |
| G-81964-A1 | Chopper              | Diesel    | 2013     | 872    | Tier 2   | 2020   | 912    | Tier 4 Final            | 1200                 |                      |                     | 10 Stanislaus      |                   |
| G-82015-A1 | Agricultural Tractor | Diesel    | 1984     | 28     | Tier 0   | 2019   | 30     | Tier 4 Final            | 100                  |                      |                     | 10 Stanislaus      |                   |
| G-82016-A1 | Agricultural Tractor | Diesel    | 1984     | 28     | Tier 0   | 2019   | 30     | Tier 4 Final            | 100                  |                      |                     | 10 Stanislaus      |                   |
| G-82017-A1 | Agricultural Tractor | Diesel    | 1984     | 28     | Tier 0   | 2019   | 30     | Tier 4 Final            | 100                  |                      |                     | 10 Stanislaus      |                   |
| G-82018-A1 | Agricultural Tractor | Diesel    | 1979     | 62     | Tier 0   | 2019   | 73     | Tier 4 Final            | 200                  |                      |                     | 10 Stanislaus      |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        | New      |        |        | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP |                      |                      |                     |                    |                   |
| G-82019-A1 | Agricultural Tractor | Diesel    | 2006     | 27     | Tier 2   | 2019   | 37     | Tier 4 Final         | 600                  |                     | 10                 | Stanislaus        |
| G-82022-A1 | Agricultural Tractor | Diesel    | 1991     | 30     | Tier 0   | 2020   | 123    | Tier 4 Final         | 400                  |                     | 10                 | Fresno            |
| G-82137-A1 | Forklift             | Diesel    | 2000     | 75     | Tier 1   | 2020   | 74     | Tier 4 Final         | 500                  |                     | 10                 | Merced            |
| G-82138-A1 | Forklift             | Diesel    | 1999     | 75     | Tier 1   | 2020   | 74     | Tier 4 Final         | 500                  |                     | 10                 | Stanislaus        |
| G-82152-A1 | Forklift             | Diesel    | 2000     | 80     | Tier 1   | 2018   | 74     | Tier 4 Final         | 500                  |                     | 10                 | Merced            |
| G-82229-A1 | Sweeper              | Diesel    | 2001     | 80     | Tier 1   | 2019   | 74     | Tier 4 Final         | 300                  |                     | 10                 | Fresno            |
| G-82500-A1 | Wheel Loader         | Diesel    | 2006     | 199    | Tier 2   | 2020   | 249    | Tier 4 Final         | 1200                 |                     | 10                 | Tulare            |
| G-82703-A1 | Wheel Loader         | Diesel    | 1987     | 58     | Tier 0   | 2019   | 96     | Tier 4 Final         | 500                  |                     | 10                 | Fresno            |
| G-82707-A1 | Back Hoe             | Diesel    | 1990     | 82     | Tier 0   | 2019   | 109    | Tier 4 Final         | 700                  |                     | 10                 | Kings             |
| G-82715-A1 | Almond Sweeper       | Diesel    | 1990     | 40     | Tier 0   | 2019   | 74     | Tier 4 Final         | 200                  |                     | 10                 | Fresno            |
| G-82741-A1 | Agricultural Tractor | Diesel    | 2005     | 115    | Tier 1   | 2020   | 114    | Tier 4 Final         | 500                  |                     | 10                 | Fresno            |
| G-82744-A1 | Almond Sweeper       | Diesel    | 1996     | 80     | Tier 0   | 2020   | 74     | Tier 4 Final         | 650                  |                     | 10                 | San Joaquin       |
| G-82746-A1 | Sweeper              | Diesel    | 1990     | 80     | Tier 0   | 2020   | 74     | Tier 4 Final         | 650                  |                     | 10                 | San Joaquin       |
| G-82754-A1 | Wheel Loader         | Diesel    | 1994     | 120    | Tier 0   | 2020   | 192    | Tier 4 Final         | 1500                 |                     | 10                 | Tulare            |
| G-82758-A1 | Shaker               | Diesel    | 1998     | 125    | Tier 1   | 2020   | 174    | Tier 4 Final         | 500                  |                     | 10                 | Madera            |
| G-82761-A1 | Wheel Loader         | Diesel    | 1978     | 100    | Tier 0   | 2020   | 152    | Tier 4 Final         | 1200                 |                     | 10                 | Tulare            |
| G-82762-A1 | Agricultural Tractor | Diesel    | 1990     | 240    | Tier 0   | 2020   | 256    | Tier 4 Final         | 500                  |                     | 10                 | Tulare            |
| G-82763-A1 | Shaker               | Diesel    | 1998     | 125    | Tier 1   | 2020   | 174    | Tier 4 Final         | 500                  |                     | 10                 | Madera            |
| G-82764-A1 | Tractor              | Diesel    | 1988     | 84     | Tier 0   | 2018   | 106    | Tier 4 Final         | 100                  |                     | 10                 | Stanislaus        |
| G-82776-A1 | Tractor              | Diesel    | 2004     | 51     | Tier 2   | 2019   | 56     | Tier 4 Final         | 500                  |                     | 10                 | Tulare            |
| G-82777-A1 | Shaker               | Diesel    | 1999     | 125    | Tier 1   | 2020   | 174    | Tier 4 Final         | 500                  |                     | 10                 | Madera            |
| G-82779-A1 | Agricultural Tractor | Diesel    | 2003     | 92     | Tier 1   | 2020   | 114    | Tier 4 Final         | 700                  |                     | 10                 | Tulare            |
| G-82780-A1 | Shaker               | Diesel    | 2002     | 125    | Tier 1   | 2020   | 174    | Tier 4 Final         | 500                  |                     | 10                 | Madera            |
| G-82781-A1 | Tractor              | Diesel    | 2001     | 62     | Tier 1   | 2020   | 56     | Tier 4 Final         | 500                  |                     | 10                 | Tulare            |
| G-82782-A1 | Agricultural Tractor | Diesel    | 2004     | 145    | Tier 2   | 2020   | 155    | Tier 4 Final         | 900                  |                     | 10                 | Kern              |
| G-82783-A1 | Shaker               | Diesel    | 2002     | 125    | Tier 1   | 2020   | 174    | Tier 4 Final         | 500                  |                     | 10                 | Madera            |
| G-82785-A1 | Agricultural Tractor | Diesel    | 2005     | 115    | Tier 2   | 2020   | 123    | Tier 4 Final         | 2200                 |                     | 10                 | Kings             |
| G-82787-A1 | Agricultural Tractor | Diesel    | 2005     | 115    | Tier 2   | 2020   | 123    | Tier 4 Final         | 2200                 |                     | 10                 | Kings             |
| G-82789-A1 | Agricultural Tractor | Diesel    | 2005     | 115    | Tier 2   | 2020   | 123    | Tier 4 Final         | 2200                 |                     | 10                 | Kings             |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-82796-A1 | Shaker               | Diesel    | 2002     | 125    | Tier 1   | 2020   | 174    | Tier 4 Final | 500                  |                      |                     | 10 Madera          |                   |
| G-82801-A1 | Shaker               | Diesel    | 2007     | 130    | Tier 2   | 2020   | 174    | Tier 4 Final | 500                  |                      |                     | 10 Madera          |                   |
| G-82803-A1 | Agricultural Tractor | Diesel    | 1988     | 82     | Tier 0   | 2020   | 123    | Tier 4 Final | 1500                 |                      |                     | 10 Fresno          |                   |
| G-82804-A1 | Shaker               | Diesel    | 2007     | 130    | Tier 2   | 2020   | 174    | Tier 4 Final | 500                  |                      |                     | 10 Madera          |                   |
| G-82805-A1 | Shaker               | Diesel    | 1998     | 125    | Tier 1   | 2020   | 174    | Tier 4 Final | 500                  |                      |                     | 10 Madera          |                   |
| G-82854-A1 | Agricultural Tractor | Diesel    | 1989     | 84     | Tier 0   | 2020   | 123    | Tier 4 Final | 250                  |                      |                     | 10 Merced          |                   |
| G-82859-A1 | Tractor              | Diesel    | 2005     | 115    | Tier 2   | 2020   | 123    | Tier 4 Final | 2200                 |                      |                     | 10 Kings           |                   |
| G-82867-A1 | Wheel Loader         | Diesel    | 1969     | 100    | Tier 0   | 2019   | 153    | Tier 4 Final | 1000                 |                      |                     | 10 Kings           |                   |
| G-82908-A1 | Agricultural Backhoe | Diesel    | 1998     | 92     | Tier 0   | 2019   | 62     | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-82926-A1 | Wheel Loader         | Diesel    | 2002     | 137    | Tier 1   | 2020   | 166    | Tier 4 Final | 1400                 |                      |                     | 10 Tulare          |                   |
| G-82931-A1 | Sweeper              | Diesel    | 1984     | 78     | Tier 0   | 2020   | 74     | Tier 4 Final | 400                  |                      |                     | 10 San Joaquin     |                   |
| G-83204-A1 | Sweeper              | Diesel    | 1991     | 74     | Tier 0   | 2020   | 74     | Tier 4 Final | 400                  |                      |                     | 10 San Joaquin     |                   |
| G-83205-A1 | Sweeper              | Diesel    | 2001     | 80     | Tier 1   | 2020   | 74     | Tier 4 Final | 400                  |                      |                     | 10 San Joaquin     |                   |
| G-83206-A1 | Sweeper              | Diesel    | 1993     | 74     | Tier 0   | 2020   | 74     | Tier 4 Final | 400                  |                      |                     | 10 San Joaquin     |                   |
| G-83207-A1 | Sweeper              | Diesel    | 1981     | 70     | Tier 0   | 2020   | 74     | Tier 4 Final | 400                  |                      |                     | 10 San Joaquin     |                   |
| G-83208-A1 | Sweeper              | Diesel    | 1987     | 80     | Tier 0   | 2020   | 74     | Tier 4 Final | 400                  |                      |                     | 10 San Joaquin     |                   |
| G-83265-A1 | Wheel Loader         | Diesel    | 2003     | 90     | Tier 1   | 2019   | 148    | Tier 4 Final | 1800                 |                      |                     | 10 Stanislaus      |                   |
| G-83278-A1 | Agricultural Tractor | Diesel    | 1998     | 85     | Tier 1   | 2020   | 114    | Tier 4 Final | 350                  |                      |                     | 10 Fresno          |                   |
| G-83279-A1 | Sweeper              | Diesel    | 1993     | 38     | Tier 0   | 2020   | 74     | Tier 4 Final | 250                  |                      |                     | 10 Fresno          |                   |
| G-83285-A1 | Sprayer              | Diesel    | 1984     | 49     | Tier 0   | 2019   | 64     | Tier 4 Final | 650                  |                      |                     | 10 Tulare          |                   |
| G-83314-A1 | Agricultural Tractor | Diesel    | 1995     | 186    | Tier 0   | 2020   | 242    | Tier 4 Final | 1400                 |                      |                     | 10 Merced          |                   |
| G-83321-A1 | Agricultural Tractor | Diesel    | 1997     | 175    | Tier 1   | 2020   | 210    | Tier 4 Final | 250                  |                      |                     | 10 Kings           |                   |
| G-83332-A1 | Agricultural Tractor | Diesel    | 1997     | 102    | Tier 1   | 2019   | 115    | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-83571-A1 | Agricultural Tractor | Diesel    | 1992     | 104    | Tier 0   | 2020   | 106    | Tier 4 Final | 300                  |                      |                     | 10 Stanislaus      |                   |
| G-83582-A1 | Wheel Loader         | Diesel    | 1999     | 157    | Tier 1   | 2020   | 170    | Tier 4 Final | 875                  |                      |                     | 10 Tulare          |                   |
| G-83621-A1 | Agricultural Tractor | Diesel    | 2002     | 89     | Tier 1   | 2020   | 114    | Tier 4 Final | 1300                 |                      |                     | 10 Fresno          |                   |
| G-83622-A1 | Agricultural Tractor | Diesel    | 2000     | 114    | Tier 1   | 2020   | 114    | Tier 4 Final | 1300                 |                      |                     | 10 Fresno          |                   |
| G-83627-A1 | Agricultural Tractor | Diesel    | 1983     | 140    | Tier 0   | 2020   | 188    | Tier 4 Final | 300                  |                      |                     | 10 Merced          |                   |
| G-83788-A1 | Agricultural Tractor | Diesel    | 2003     | 156    | Tier 1   | 2020   | 175    | Tier 4 Final | 500                  |                      |                     | 10 Merced          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-83797-A1 | Agricultural Tractor | Diesel    | 1988     | 68     | Tier 0   | 2020   | 114    | Tier 4 Final            | 550                  |                      |                     | 10 Tulare          |                   |
| G-83851-A1 | Back Hoe             | Diesel    | 1977     | 66     | Tier 0   | 2020   | 74     | Tier 4 Final            | 500                  |                      |                     | 10 San Joaquin     |                   |
| G-83961-A1 | Forklift             | Diesel    | 1978     | 60     | Tier 0   | 2019   | 74     | Tier 4 Final            | 2000                 |                      |                     | 10 Kern            |                   |
| G-84253-A1 | Spreader             | Diesel    | 1992     | 250    | Tier 0   | 2020   | 365    | Tier 4 Final            | 1000                 |                      |                     | 10 Fresno          |                   |
| G-84255-A1 | Spreader             | Diesel    | 1982     | 228    | Tier 0   | 2020   | 365    | Tier 4 Final            | 1000                 |                      |                     | 10 Fresno          |                   |
| G-84256-A1 | Agricultural Tractor | Diesel    | 1977     | 59     | Tier 0   | 2020   | 123    | Tier 4 Final            | 300                  |                      |                     | 10 Tulare          |                   |
| G-84257-A1 | Agricultural Tractor | Diesel    | 2006     | 109    | Tier 2   | 2019   | 106    | Tier 4 Final            | 1250                 |                      |                     | 10 Tulare          |                   |
| G-84259-A1 | Chopper              | Diesel    | 2002     | 601    | Tier 2   | 2018   | 617    | Tier 4 Final            | 1000                 |                      |                     | 10 Merced          |                   |
| G-84270-A1 | Agricultural Tractor | Diesel    | 2004     | 421    | Tier 2   | 2019   | 345    | Tier 4 Final            | 1750                 |                      |                     | 10 Stanislaus      |                   |
| G-84613-A1 | Agricultural Tractor | Diesel    | 2002     | 51     | Tier 2   | 2020   | 56     | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |
| G-84614-A1 | Agricultural Tractor | Diesel    | 2000     | 53     | Tier 1   | 2020   | 73     | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |
| G-84615-A1 | Agricultural Tractor | Diesel    | 1996     | 120    | Tier 0   | 2020   | 130    | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |
| G-84621-A1 | Back Hoe             | Diesel    | 1989     | 83     | Tier 0   | 2019   | 96     | Tier 4 Final            | 250                  |                      |                     | 10 Stanislaus      |                   |
| G-84730-A1 | Agricultural Tractor | Diesel    | 1993     | 180    | Tier 0   | 2019   | 114    | Tier 4 Final            | 1200                 |                      |                     | 10 Kern            |                   |
| G-84845-A1 | Agricultural Tractor | Diesel    | 2006     | 105    | Tier 2   | 2020   | 123    | Tier 4 Final            | 400                  |                      |                     | 10 Fresno          |                   |
| G-84951-A1 | Agricultural Tractor | Diesel    | 1988     | 228    | Tier 0   | 2018   | 295    | Tier 4 Final            | 600                  |                      |                     | 10 Tulare          |                   |
| G-84993-A1 | Chopper              | Diesel    | 1998     | 365    | Tier 1   | 2019   | 532    | Tier 4 Final            | 300                  |                      |                     | 10 Merced          |                   |
| G-85323-A1 | Agricultural Tractor | Diesel    | 1988     | 81     | Tier 0   | 2020   | 106    | Tier 4 Phase In/Alt NOx | 450                  |                      |                     | 10 Fresno          |                   |
| G-85327-A1 | Agricultural Tractor | Diesel    | 1988     | 81     | Tier 0   | 2020   | 106    | Tier 4 Phase In/Alt NOx | 450                  |                      |                     | 10 Fresno          |                   |
| G-86154-A1 | Agricultural Tractor | Diesel    | 1981     | 126    | Tier 0   | 2015   | 139    | Tier 4 Final            | 600                  |                      |                     | 10 Tulare          |                   |
| G-87129-A1 | Agricultural Tractor | Diesel    | 1981     | 72     | Tier 0   | 2019   | 114    | Tier 4 Final            | 200                  |                      |                     | 10 Stanislaus      |                   |
| G-87154-A1 | Agricultural Tractor | Diesel    | 1996     | 99     | Tier 0   | 2020   | 123    | Tier 4 Final            | 750                  |                      |                     | 10 Tulare          |                   |
| G-87157-A1 | Agricultural Tractor | Diesel    | 1998     | 95     | Tier 1   | 2019   | 115    | Tier 4 Final            | 150                  |                      |                     | 10 Kern            |                   |
| G-87207-A1 | Agricultural Tractor | Diesel    | 1998     | 88     | Tier 1   | 2020   | 90     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-87214-A1 | Shaker               | Diesel    | 1997     | 125    | Tier 1   | 2020   | 148    | Tier 4 Final            | 500                  |                      |                     | 10 Stanislaus      |                   |
| G-87227-A1 | Forklift             | Diesel    | 2007     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final            | 850                  |                      |                     | 10 Kern            |                   |
| G-87228-A1 | Forklift             | Diesel    | 2005     | 80     | Tier 2   | 2020   | 74     | Tier 4 Final            | 850                  |                      |                     | 10 Kern            |                   |
| G-87230-A1 | Shaker               | Diesel    | 1994     | 130    | Tier 0   | 2020   | 148    | Tier 4 Final            | 250                  |                      |                     | 10 San Joaquin     |                   |
| G-87233-A1 | Agricultural Tractor | Diesel    | 2005     | 139    | Tier 2   | 2020   | 202    | Tier 4 Final            | 2000                 |                      |                     | 10 Merced          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-87242-A1 | Agricultural Tractor | Diesel    | 1987     | 72     | Tier 0   | 2018   | 74     | Tier 4 Final            | 550                  |                      |                     | 10 Tulare          |                   |
| G-87247-A1 | Agricultural Tractor | Diesel    | 1966     | 115    | Tier 0   | 2019   | 114    | Tier 4 Final            | 300                  |                      |                     | 10 Kern            |                   |
| G-87292-A1 | Agricultural Tractor | Diesel    | 2001     | 98     | Tier 1   | 2019   | 106    | Tier 4 Final            | 1200                 |                      |                     | 10 Kern            |                   |
| G-87302-A1 | Agricultural Tractor | Diesel    | 1999     | 92     | Tier 1   | 2020   | 106    | Tier 4 Final            | 1200                 |                      |                     | 10 Kern            |                   |
| G-87560-A1 | Wheel Loader         | Diesel    | 2000     | 135    | Tier 1   | 2020   | 154    | Tier 4 Final            | 2000                 |                      |                     | 10 Kern            |                   |
| G-87619-A1 | Chopper              | Diesel    | 2000     | 449    | Tier 1   | 2018   | 617    | Tier 4 Final            | 600                  |                      |                     | 10 Tulare          |                   |
| G-87632-A1 | Chopper              | Diesel    | 2003     | 601    | Tier 2   | 2020   | 912    | Tier 4 Final            | 1000                 |                      |                     | 10 Kern            |                   |
| G-87857-A1 | Agricultural Tractor | Diesel    | 1981     | 136    | Tier 0   | 2020   | 98     | Tier 4 Phase In/Alt NOx | 200                  |                      |                     | 10 San Joaquin     |                   |
| G-87944-A1 | Agricultural Tractor | Diesel    | 2009     | 121    | Tier 2   | 2019   | 125    | Tier 4 Final            | 800                  |                      |                     | 10 Kings           |                   |
| G-88178-A1 | Shaker               | Diesel    | 2006     | 130    | Tier 2   | 2020   | 139    | Tier 4 Final            | 500                  |                      |                     | 10 Fresno          |                   |
| G-88179-A1 | Forklift             | Diesel    | 1983     | 52     | Tier 0   | 2019   | 74     | Tier 4 Final            | 800                  |                      |                     | 10 Kern            |                   |
| G-88180-A1 | Forklift             | Diesel    | 1982     | 52     | Tier 0   | 2019   | 74     | Tier 4 Final            | 800                  |                      |                     | 10 Kern            |                   |
| G-88181-A1 | Agricultural Tractor | Diesel    | 1997     | 86     | Tier 0   | 2018   | 90     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-88185-A1 | Shaker               | Diesel    | 1993     | 115    | Tier 0   | 2020   | 148    | Tier 4 Final            | 250                  |                      |                     | 10 San Joaquin     |                   |
| G-88209-A1 | Agricultural Tractor | Diesel    | 1992     | 64     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 400                  |                      |                     | 10 Kings           |                   |
| G-88210-A1 | Agricultural Tractor | Diesel    | 1992     | 64     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 400                  |                      |                     | 10 Kings           |                   |
| G-88244-A1 | Agricultural Tractor | Diesel    | 2005     | 81     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 350                  |                      |                     | 10 Kern            |                   |
| G-88249-A1 | Agricultural Tractor | Diesel    | 1992     | 64     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 400                  |                      |                     | 10 Kings           |                   |
| G-88250-A1 | Agricultural Tractor | Diesel    | 1992     | 64     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 400                  |                      |                     | 10 Kings           |                   |
| G-88400-A1 | Wheel Loader         | Diesel    | 2004     | 152    | Tier 2   | 2019   | 182    | Tier 4 Final            | 1500                 |                      |                     | 10 Kings           |                   |
| G-88418-A1 | Agricultural Tractor | Diesel    | 2007     | 90     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10 Tulare          |                   |
| G-88433-A1 | Agricultural Tractor | Diesel    | 2007     | 86     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10 Tulare          |                   |
| G-88472-A1 | Agricultural Tractor | Diesel    | 1964     | 114    | Tier 0   | 2020   | 123    | Tier 4 Final            | 300                  |                      |                     | 10 Tulare          |                   |
| G-88474-A1 | Agricultural Tractor | Diesel    | 2002     | 340    | Tier 2   | 2020   | 340    | Tier 4 Final            | 360                  |                      |                     | 10 Tulare          |                   |
| G-88480-A1 | Motor Grader         | Diesel    | 1997     | 170    | Tier 1   | 2020   | 190    | Tier 4 Final            | 1050                 |                      |                     | 10 Madera          |                   |
| G-88483-A1 | Agricultural Tractor | Diesel    | 2000     | 52     | Tier 1   | 2019   | 73     | Tier 4 Final            | 200                  |                      |                     | 10 Merced          |                   |
| G-88500-A1 | Wheel Loader         | Diesel    | 1994     | 118    | Tier 0   | 2017   | 173    | Tier 4 Final            | 1200                 |                      |                     | 10 Kern            |                   |
| G-88612-A1 | Agricultural Tractor | Diesel    | 1983     | 83     | Tier 0   | 2019   | 115    | Tier 4 Final            | 750                  |                      |                     | 10 Stanislaus      |                   |
| G-88619-A1 | Sprayer              | Diesel    | 1998     | 70     | Tier 1   | 2019   | 74     | Tier 4 Final            | 1000                 |                      |                     | 10 San Joaquin     |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-88835-A1 | Forklift             | Diesel    | 1983     | 52     | Tier 0   | 2019   | 74     | Tier 4 Final            | 800                  |                      |                     | 10 Tulare          |                   |
| G-89170-A1 | Agricultural Tractor | Diesel    | 1975     | 96     | Tier 0   | 2019   | 115    | Tier 4 Final            | 800                  |                      |                     | 10 Tulare          |                   |
| G-89173-A1 | Agricultural Tractor | Diesel    | 1999     | 114    | Tier 1   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 800                  |                      |                     | 10 Tulare          |                   |
| G-89174-A1 | Agricultural Tractor | Diesel    | 1994     | 108    | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 800                  |                      |                     | 10 Tulare          |                   |
| G-89299-A1 | Agricultural Tractor | Diesel    | 1999     | 200    | Tier 1   | 2020   | 195    | Tier 4 Final            | 1000                 |                      |                     | 10 Kern            |                   |
| G-89308-A1 | Agricultural Tractor | Diesel    | 1987     | 81     | Tier 0   | 2021   | 123    | Tier 4 Final            | 500                  |                      |                     | 10 Madera          |                   |
| G-89309-A1 | Agricultural Tractor | Diesel    | 1979     | 73     | Tier 0   | 2021   | 123    | Tier 4 Final            | 450                  |                      |                     | 10 Madera          |                   |
| G-89311-A1 | Agricultural Tractor | Diesel    | 1975     | 67     | Tier 0   | 2021   | 123    | Tier 4 Final            | 420                  |                      |                     | 10 Madera          |                   |
| G-89884-A1 | Agricultural Tractor | Diesel    | 2006     | 96     | Tier 2   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 1500                 |                      |                     | 10 Tulare          |                   |
| G-89885-A1 | Agricultural Tractor | Diesel    | 2006     | 96     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1500                 |                      |                     | 10 Tulare          |                   |
| G-89886-A1 | Agricultural Tractor | Diesel    | 1987     | 50     | Tier 0   | 2019   | 58     | Tier 4 Final            | 1000                 |                      |                     | 10 Tulare          |                   |
| G-89892-A1 | Agricultural Tractor | Diesel    | 1978     | 173    | Tier 0   | 2020   | 175    | Tier 4 Final            | 1500                 |                      |                     | 10 Kern            |                   |
| G-89894-A1 | Agricultural Tractor | Diesel    | 2006     | 91     | Tier 2   | 2018   | 74     | Tier 4 Final            | 1000                 |                      |                     | 10 Tulare          |                   |
| G-89899-A1 | Agricultural Tractor | Diesel    | 2005     | 45     | Tier 1   | 2020   | 73     | Tier 4 Final            | 1500                 |                      |                     | 10 Tulare          |                   |
| G-89900-A1 | Agricultural Tractor | Diesel    | 2005     | 45     | Tier 1   | 2020   | 73     | Tier 4 Final            | 1500                 |                      |                     | 10 Tulare          |                   |
| G-89901-A1 | Agricultural Tractor | Diesel    | 2005     | 45     | Tier 1   | 2020   | 73     | Tier 4 Final            | 1500                 |                      |                     | 10 Tulare          |                   |
| G-89924-A1 | Cotton Picker        | Diesel    | 2006     | 350    | Tier 2   | 2019   | 560    | Tier 4 Final            | 375                  |                      |                     | 10 Kings           |                   |
| G-89927-A1 | Agricultural Tractor | Diesel    | 1992     | 134    | Tier 0   | 2020   | 114    | Tier 4 Final            | 600                  |                      |                     | 10 Fresno          |                   |
| G-89960-A1 | Agricultural Tractor | Diesel    | 2004     | 225    | Tier 2   | 2020   | 210    | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |
| G-89961-A1 | Cotton Picker        | Diesel    | 1995     | 250    | Tier 0   | 2019   | 560    | Tier 4 Final            | 330                  |                      |                     | 10 Merced          |                   |
| G-89961-A1 | Cotton Picker        | Diesel    | 1996     | 250    | Tier 1   |        |        |                         |                      |                      |                     | Merced             |                   |
| G-90199-A1 | Wheel Loader         | Diesel    | 1998     | 152    | Tier 1   | 2020   | 188    | Tier 4 Final            | 1400                 |                      |                     | 10 Kern            |                   |
| G-90201-A1 | Agricultural Tractor | Diesel    | 1978     | 62     | Tier 0   | 2020   | 106    | Tier 4 Final            | 200                  |                      |                     | 10 Stanislaus      |                   |
| G-90206-A1 | Agricultural Tractor | Diesel    | 2004     | 231    | Tier 2   | 2018   | 270    | Tier 4 Final            | 500                  |                      |                     | 10 Tulare          |                   |
| G-90209-A1 | Sweeper              | Diesel    | 2006     | 80     | Tier 1   | 2019   | 74     | Tier 4 Final            | 1100                 |                      |                     | 10 Kern            |                   |
| G-90258-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90262-A1 | Agricultural Tractor | Diesel    | 1992     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90265-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2019   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90269-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-90275-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2019   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90276-A1 | Agricultural Tractor | Diesel    | 1990     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90278-A1 | Agricultural Tractor | Diesel    | 1992     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90279-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90281-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90283-A1 | Agricultural Tractor | Diesel    | 1992     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90284-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2019   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90285-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90286-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90288-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2019   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90289-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90290-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90292-A1 | Agricultural Tractor | Diesel    | 1992     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90293-A1 | Agricultural Tractor | Diesel    | 1992     | 25     | Tier 0   | 2019   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90294-A1 | Agricultural Tractor | Diesel    | 1990     | 25     | Tier 0   | 2019   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90295-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2018   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90297-A1 | Agricultural Tractor | Diesel    | 1990     | 25     | Tier 0   | 2019   | 35     | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-90339-A1 | Wheel Loader         | Diesel    | 1992     | 118    | Tier 0   | 2019   | 164    | Tier 4 Final            | 1584                 |                      |                     | 10 Merced          |                   |
| G-90430-A1 | Agricultural Tractor | Diesel    | 1998     | 114    | Tier 1   | 2020   | 125    | Tier 4 Final            | 800                  |                      |                     | 10 Kern            |                   |
| G-90540-A1 | Back Hoe             | Diesel    | 1997     | 95     | Tier 0   | 2020   | 74     | Tier 4 Final            | 600                  |                      |                     | 10 Merced          |                   |
| G-91018-A1 | Agricultural Tractor | Diesel    | 1997     | 210    | Tier 1   | 2019   | 115    | Tier 4 Final            | 600                  |                      |                     | 10 Tulare          |                   |
| G-91019-A1 | Agricultural Tractor | Diesel    | 1997     | 102    | Tier 1   | 2020   | 106    | Tier 4 Phase In/Alt NOx | 800                  |                      |                     | 10 Tulare          |                   |
| G-91020-A1 | Agricultural Tractor | Diesel    | 1997     | 81     | Tier 0   | 2020   | 123    | Tier 4 Final            | 350                  |                      |                     | 10 Stanislaus      |                   |
| G-91036-A1 | Agricultural Tractor | Diesel    | 1987     | 280    | Tier 0   | 2018   | 115    | Tier 4 Final            | 600                  |                      |                     | 10 Kern            |                   |
| G-91061-A1 | Wheel Loader         | Diesel    | 1996     | 120    | Tier 0   | 2020   | 163    | Tier 4 Final            | 3000                 |                      |                     | 10 Tulare          |                   |
| G-91082-A1 | Agricultural Tractor | Diesel    | 1990     | 335    | Tier 1   | 2019   | 295    | Tier 4 Final            | 700                  |                      |                     | 10 Kern            |                   |
| G-91145-A1 | Sweeper              | Diesel    | 1992     | 60     | Tier 0   | 2019   | 74     | Tier 4 Final            | 1500                 |                      |                     | 10 Kings           |                   |
| G-91266-A1 | Tractor Loader       | Diesel    | 1995     | 75     | Tier 0   | 2019   | 74     | Tier 4 Final            | 1000                 |                      |                     | 10 Kern            |                   |
| G-91363-A1 | Agricultural Tractor | Diesel    | 1987     | 97     | Tier 0   | 2020   | 123    | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |



## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-91472-A1 | Forklift             | Diesel    | 1988     | 71     | Tier 0   | 2019   | 48     | Tier 4 Final | 300                  |                      |                     | 10                 | Kern              |
| G-91503-A1 | Agricultural Tractor | Diesel    | 2000     | 400    | Tier 1   | 2020   | 515    | Tier 4 Final | 600                  |                      |                     | 10                 | Merced            |
| G-91529-A1 | Agricultural Tractor | Diesel    | 2001     | 95     | Tier 1   | 2019   | 114    | Tier 4 Final | 500                  |                      |                     | 10                 | Kern              |
| G-91530-A1 | Agricultural Tractor | Diesel    | 2001     | 95     | Tier 1   | 2019   | 114    | Tier 4 Final | 500                  |                      |                     | 10                 | Kern              |
| G-91556-A1 | Agricultural Tractor | Diesel    | 2002     | 110    | Tier 1   | 2019   | 114    | Tier 4 Final | 478                  |                      |                     | 10                 | Kern              |
| G-91558-A1 | Agricultural Tractor | Diesel    | 2001     | 95     | Tier 1   | 2019   | 114    | Tier 4 Final | 500                  |                      |                     | 10                 | Kern              |
| G-91561-A1 | Agricultural Tractor | Diesel    | 2000     | 104    | Tier 1   | 2018   | 90     | Tier 4 Final | 477                  |                      |                     | 10                 | Kern              |
| G-91718-A1 | Sweeper              | Diesel    | 1996     | 80     | Tier 0   | 2020   | 74     | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| G-91746-A1 | Shaker               | Diesel    | 2002     | 125    | Tier 1   | 2018   | 74     | Tier 4 Final | 1000                 |                      |                     | 10                 | Kern              |
| G-91860-A1 | Agricultural Tractor | Diesel    | 1977     | 52     | Tier 0   | 2020   | 53     | Tier 4 Final | 100                  |                      |                     | 10                 | Kern              |
| G-91864-A1 | Agricultural Tractor | Diesel    | 1985     | 77     | Tier 0   | 2020   | 75     | Tier 4 Final | 100                  |                      |                     | 10                 | Kern              |
| G-91895-A1 | Almond Harvester     | Diesel    | 2005     | 125    | Tier 1   | 2019   | 173    | Tier 4 Final | 523                  |                      |                     | 10                 | Fresno            |
| G-92256-A1 | Agricultural Tractor | Diesel    | 1998     | 425    | Tier 1   | 2019   | 520    | Tier 4 Final | 1000                 |                      |                     | 10                 | Fresno            |
| G-92273-A1 | Other Agricultural   | Diesel    | 2001     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92274-A1 | Other Agricultural   | Diesel    | 1998     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92275-A1 | Other Agricultural   | Diesel    | 2005     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92276-A1 | Other Agricultural   | Diesel    | 2006     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92277-A1 | Other Agricultural   | Diesel    | 2004     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92278-A1 | Other Agricultural   | Diesel    | 2006     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92279-A1 | Other Agricultural   | Diesel    | 2003     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92281-A1 | Other Agricultural   | Diesel    | 2007     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92282-A1 | Other Agricultural   | Diesel    | 2007     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92283-A1 | Other Agricultural   | Diesel    | 1999     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92286-A1 | Other Agricultural   | Diesel    | 2004     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92287-A1 | Other Agricultural   | Diesel    | 2007     | 125    | Tier 1   | 2011   | 130    | Tier 3       | 500                  |                      |                     | 10                 | Fresno            |
| G-92316-A1 | Agricultural Tractor | Diesel    | 2006     | 95     | Tier 2   | 2020   | 123    | Tier 4 Final | 550                  |                      |                     | 10                 | Tulare            |
| G-92380-A1 | Agricultural Tractor | Diesel    | 1990     | 335    | Tier 0   | 2021   | 470    | Tier 4 Final | 700                  |                      |                     | 10                 | Kern              |
| G-92447-A1 | Wheel Loader         | Diesel    | 1990     | 135    | Tier 0   | 2019   | 184    | Tier 4 Final | 1000                 |                      |                     | 10                 | Tulare            |
| G-92460-A1 | Chopper              | Diesel    | 2012     | 757    | Tier 2   | 2019   | 818    | Tier 4 Final | 900                  |                      |                     | 10                 | Fresno            |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-92493-A1 | Almond Sweeper       | Diesel    | 1997     | 80     | Tier 0   | 2020   | 74     | Tier 4 Final            | 300                  |                      |                     | 10 Kern            |                   |
| G-92494-A1 | Almond Sweeper       | Diesel    | 2003     | 80     | Tier 1   | 2020   | 74     | Tier 4 Final            | 300                  |                      |                     | 10 Kern            |                   |
| G-92721-A1 | Agricultural Tractor | Diesel    | 1987     | 60     | Tier 0   | 2020   | 99     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-92724-A1 | Agricultural Tractor | Diesel    | 1990     | 97     | Tier 0   | 2020   | 130    | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-92734-A1 | Agricultural Tractor | Diesel    | 1976     | 38     | Tier 0   | 2017   | 35     | Tier 4 Final            | 400                  |                      |                     | 10 Tulare          |                   |
| G-92783-A1 | Agricultural Tractor | Diesel    | 2002     | 27     | Tier 1   | 2020   | 33     | Tier 4 Final            | 987                  |                      |                     | 10 Kern            |                   |
| G-92784-A1 | Agricultural Tractor | Diesel    | 2002     | 31     | Tier 1   | 2020   | 33     | Tier 4 Final            | 1027                 |                      |                     | 10 Kern            |                   |
| G-92785-A1 | Agricultural Tractor | Diesel    | 2000     | 42     | Tier 1   | 2020   | 33     | Tier 4 Final            | 1564                 |                      |                     | 10 Kern            |                   |
| G-92789-A1 | Agricultural Tractor | Diesel    | 2003     | 90     | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1345                 |                      |                     | 10 Kern            |                   |
| G-92792-A1 | Agricultural Tractor | Diesel    | 2003     | 90     | Tier 1   | 2019   | 90     | Tier 4 Final            | 956                  |                      |                     | 10 Kern            |                   |
| G-92795-A1 | Agricultural Tractor | Diesel    | 2001     | 114    | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1034                 |                      |                     | 10 Kern            |                   |
| G-92799-A1 | Agricultural Tractor | Diesel    | 1998     | 39     | Tier 0   | 2020   | 43     | Tier 4 Final            | 1265                 |                      |                     | 10 Kern            |                   |
| G-92823-A1 | Agricultural Tractor | Diesel    | 1975     | 64     | Tier 0   | 2020   | 73     | Tier 4 Final            | 500                  |                      |                     | 10 Tulare          |                   |
| G-92831-A1 | Agricultural Tractor | Diesel    | 1999     | 42     | Tier 1   | 2020   | 33     | Tier 4 Final            | 1462                 |                      |                     | 10 Kern            |                   |
| G-92961-A1 | Agricultural Tractor | Diesel    | 2005     | 71     | Tier 2   | 2017   | 84     | Tier 4 Final            | 900                  |                      |                     | 10 Tulare          |                   |
| G-92962-A1 | Agricultural Tractor | Diesel    | 1976     | 216    | Tier 0   | 2020   | 281    | Tier 4 Final            | 900                  |                      |                     | 10 Merced          |                   |
| G-93194-A1 | Agricultural Tractor | Diesel    | 1981     | 29     | Tier 0   | 2018   | 35     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-93197-A1 | Agricultural Tractor | Diesel    | 1977     | 37     | Tier 0   | 2018   | 35     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-93208-A1 | Agricultural Tractor | Diesel    | 1981     | 29     | Tier 0   | 2018   | 35     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-93581-A1 | Agricultural Tractor | Diesel    | 1999     | 310    | Tier 1   | 2018   | 540    | Tier 4 Final            | 600                  |                      |                     | 10 Stanislaus      |                   |
| G-93694-A1 | Agricultural Tractor | Diesel    | 1977     | 37     | Tier 0   | 2018   | 35     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-93695-A1 | Agricultural Tractor | Diesel    | 1980     | 37     | Tier 0   | 2019   | 35     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-93696-A1 | Agricultural Tractor | Diesel    | 1977     | 37     | Tier 0   | 2019   | 35     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-93697-A1 | Agricultural Tractor | Diesel    | 1977     | 37     | Tier 0   | 2018   | 35     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-93707-A1 | Agricultural Tractor | Diesel    | 1998     | 91     | Tier 1   | 2018   | 108    | Tier 4 Final            | 750                  |                      |                     | 10 Tulare          |                   |
| G-93723-A1 | Agricultural Tractor | Diesel    | 1979     | 29     | Tier 0   | 2018   | 35     | Tier 4 Final            | 500                  |                      |                     | 10 Kern            |                   |
| G-93936-A1 | Agricultural Tractor | Diesel    | 2004     | 99     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1200                 |                      |                     | 10 Kern            |                   |
| G-93990-A1 | Back Hoe             | Diesel    | 1989     | 69     | Tier 0   | 2020   | 102    | Tier 4 Final            | 1000                 |                      |                     | 10 Kern            |                   |
| G-94049-A1 | Agricultural Tractor | Diesel    | 1992     | 103    | Tier 0   | 2018   | 99     | Tier 4 Final            | 300                  |                      |                     | 10 Tulare          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-94050-A1 | Agricultural Tractor | Diesel    | 1991     | 234    | Tier 0   | 2020   | 123    | Tier 4 Final | 300                  |                      |                     | 10 Tulare          |                   |
| G-94053-A1 | Agricultural Tractor | Diesel    | 2000     | 110    | Tier 1   | 2018   | 125    | Tier 4 Final | 1200                 |                      |                     | 10 Kern            |                   |
| G-94054-A1 | Agricultural Tractor | Diesel    | 2001     | 110    | Tier 1   | 2019   | 125    | Tier 4 Final | 1200                 |                      |                     | 10 Kern            |                   |
| G-94057-A1 | Agricultural Tractor | Diesel    | 1978     | 80     | Tier 0   | 2018   | 90     | Tier 4 Final | 300                  |                      |                     | 10 Tulare          |                   |
| G-94061-A1 | Agricultural Tractor | Diesel    | 1994     | 115    | Tier 0   | 2019   | 100    | Tier 4 Final | 300                  |                      |                     | 10 Tulare          |                   |
| G-94063-A1 | Agricultural Tractor | Diesel    | 2005     | 105    | Tier 2   | 2019   | 100    | Tier 4 Final | 300                  |                      |                     | 10 Tulare          |                   |
| G-94067-A1 | Agricultural Tractor | Diesel    | 1989     | 43     | Tier 0   | 2019   | 52     | Tier 4 Final | 300                  |                      |                     | 10 Tulare          |                   |
| G-94078-A1 | Agricultural Tractor | Diesel    | 1989     | 43     | Tier 0   | 2020   | 52     | Tier 4 Final | 300                  |                      |                     | 10 Tulare          |                   |
| G-94108-A1 | Agricultural Tractor | Diesel    | 2007     | 110    | Tier 2   | 2019   | 114    | Tier 4 Final | 700                  |                      |                     | 10 Kern            |                   |
| G-94129-A1 | Wheel Loader         | Diesel    | 1980     | 102    | Tier 0   | 2018   | 71     | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-94299-A1 | Agricultural Tractor | Diesel    | 1998     | 109    | Tier 1   | 2020   | 125    | Tier 4 Final | 550                  |                      |                     | 10 Kern            |                   |
| G-94300-A1 | Agricultural Tractor | Diesel    | 1996     | 46     | Tier 0   | 2020   | 125    | Tier 4 Final | 451                  |                      |                     | 10 Kern            |                   |
| G-94301-A1 | Agricultural Tractor | Diesel    | 1995     | 60     | Tier 0   | 2020   | 125    | Tier 4 Final | 526                  |                      |                     | 10 Kern            |                   |
| G-94303-A1 | Agricultural Tractor | Diesel    | 2001     | 93     | Tier 1   | 2020   | 125    | Tier 4 Final | 690                  |                      |                     | 10 Kern            |                   |
| G-94304-A1 | Agricultural Tractor | Diesel    | 2002     | 110    | Tier 1   | 2020   | 125    | Tier 4 Final | 526                  |                      |                     | 10 Kern            |                   |
| G-94305-A1 | Agricultural Tractor | Diesel    | 1995     | 102    | Tier 0   | 2020   | 125    | Tier 4 Final | 616                  |                      |                     | 10 Kern            |                   |
| G-94307-A1 | Agricultural Tractor | Diesel    | 1999     | 81     | Tier 1   | 2020   | 125    | Tier 4 Final | 641                  |                      |                     | 10 Kern            |                   |
| G-94308-A1 | Agricultural Tractor | Diesel    | 2000     | 181    | Tier 1   | 2020   | 236    | Tier 4 Final | 730                  |                      |                     | 10 Kern            |                   |
| G-94319-A1 | Agricultural Tractor | Diesel    | 2003     | 117    | Tier 2   | 2020   | 139    | Tier 4 Final | 453                  |                      |                     | 10 Kern            |                   |
| G-94325-A1 | Agricultural Tractor | Diesel    | 2000     | 181    | Tier 1   | 2020   | 236    | Tier 4 Final | 628                  |                      |                     | 10 Kern            |                   |
| G-94326-A1 | Agricultural Tractor | Diesel    | 1992     | 240    | Tier 0   | 2020   | 236    | Tier 4 Final | 674                  |                      |                     | 10 Kern            |                   |
| G-94335-A1 | Agricultural Tractor | Diesel    | 1999     | 81     | Tier 1   | 2020   | 125    | Tier 4 Final | 576                  |                      |                     | 10 Kern            |                   |
| G-94336-A1 | Agricultural Tractor | Diesel    | 1997     | 156    | Tier 1   | 2020   | 162    | Tier 4 Final | 670                  |                      |                     | 10 Kern            |                   |
| G-94337-A1 | Agricultural Tractor | Diesel    | 1999     | 81     | Tier 1   | 2020   | 125    | Tier 4 Final | 564                  |                      |                     | 10 Kern            |                   |
| G-94338-A1 | Agricultural Tractor | Diesel    | 1997     | 156    | Tier 1   | 2020   | 162    | Tier 4 Final | 762                  |                      |                     | 10 Kern            |                   |
| G-94339-A1 | Agricultural Tractor | Diesel    | 1995     | 120    | Tier 0   | 2020   | 162    | Tier 4 Final | 580                  |                      |                     | 10 Kern            |                   |
| G-94341-A1 | Agricultural Tractor | Diesel    | 1998     | 110    | Tier 1   | 2020   | 162    | Tier 4 Final | 730                  |                      |                     | 10 Kern            |                   |
| G-94343-A1 | Agricultural Tractor | Diesel    | 2003     | 117    | Tier 1   | 2020   | 162    | Tier 4 Final | 694                  |                      |                     | 10 Kern            |                   |
| G-94344-A1 | Agricultural Tractor | Diesel    | 2003     | 117    | Tier 1   | 2020   | 236    | Tier 4 Final | 514                  |                      |                     | 10 Kern            |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-94347-A1 | Agricultural Tractor | Diesel    | 2006     | 145    | Tier 2   | 2020   | 162    | Tier 4 Final            | 705                  |                      |                     | 10 Kern            |                   |
| G-94349-A1 | Agricultural Tractor | Diesel    | 2006     | 145    | Tier 2   | 2020   | 162    | Tier 4 Final            | 654                  |                      |                     | 10 Kern            |                   |
| G-94351-A1 | Agricultural Tractor | Diesel    | 2001     | 118    | Tier 1   | 2020   | 139    | Tier 4 Final            | 607                  |                      |                     | 10 Kern            |                   |
| G-94357-A1 | Agricultural Tractor | Diesel    | 1993     | 120    | Tier 0   | 2020   | 139    | Tier 4 Final            | 370                  |                      |                     | 10 Kern            |                   |
| G-94359-A1 | Agricultural Tractor | Diesel    | 2004     | 135    | Tier 2   | 2020   | 139    | Tier 4 Final            | 628                  |                      |                     | 10 Kern            |                   |
| G-94362-A1 | Agricultural Tractor | Diesel    | 1997     | 118    | Tier 1   | 2020   | 139    | Tier 4 Final            | 679                  |                      |                     | 10 Kern            |                   |
| G-94366-A1 | Agricultural Tractor | Diesel    | 1995     | 120    | Tier 0   | 2020   | 139    | Tier 4 Final            | 537                  |                      |                     | 10 Kern            |                   |
| G-94369-A1 | Agricultural Tractor | Diesel    | 2004     | 135    | Tier 2   | 2020   | 139    | Tier 4 Final            | 633                  |                      |                     | 10 Kern            |                   |
| G-94370-A1 | Agricultural Tractor | Diesel    | 1998     | 81     | Tier 1   | 2020   | 125    | Tier 4 Final            | 554                  |                      |                     | 10 Kern            |                   |
| G-94371-A1 | Agricultural Tractor | Diesel    | 1998     | 81     | Tier 1   | 2020   | 125    | Tier 4 Final            | 612                  |                      |                     | 10 Kern            |                   |
| G-94372-A1 | Agricultural Tractor | Diesel    | 1998     | 81     | Tier 1   | 2020   | 125    | Tier 4 Final            | 646                  |                      |                     | 10 Kern            |                   |
| G-94375-A1 | Agricultural Tractor | Diesel    | 1995     | 110    | Tier 0   | 2020   | 125    | Tier 4 Final            | 751                  |                      |                     | 10 Kern            |                   |
| G-94378-A1 | Agricultural Tractor | Diesel    | 2004     | 75     | Tier 2   | 2020   | 125    | Tier 4 Final            | 579                  |                      |                     | 10 Kern            |                   |
| G-94379-A1 | Agricultural Tractor | Diesel    | 2004     | 75     | Tier 2   | 2020   | 125    | Tier 4 Final            | 646                  |                      |                     | 10 Kern            |                   |
| G-94380-A1 | Agricultural Tractor | Diesel    | 1996     | 102    | Tier 0   | 2020   | 125    | Tier 4 Final            | 643                  |                      |                     | 10 Kern            |                   |
| G-94385-A1 | Agricultural Tractor | Diesel    | 2004     | 93     | Tier 2   | 2020   | 125    | Tier 4 Final            | 735                  |                      |                     | 10 Kern            |                   |
| G-94387-A1 | Agricultural Tractor | Diesel    | 2004     | 75     | Tier 2   | 2020   | 125    | Tier 4 Final            | 633                  |                      |                     | 10 Kern            |                   |
| G-94407-A1 | Agricultural Tractor | Diesel    | 1995     | 110    | Tier 0   | 2020   | 125    | Tier 4 Final            | 439                  |                      |                     | 10 Kern            |                   |
| G-94409-A1 | Agricultural Tractor | Diesel    | 1995     | 110    | Tier 0   | 2020   | 125    | Tier 4 Final            | 442                  |                      |                     | 10 Kern            |                   |
| G-94410-A1 | Agricultural Tractor | Diesel    | 1991     | 95     | Tier 0   | 2020   | 125    | Tier 4 Final            | 535                  |                      |                     | 10 Kern            |                   |
| G-94411-A1 | Agricultural Tractor | Diesel    | 1995     | 60     | Tier 0   | 2020   | 125    | Tier 4 Final            | 514                  |                      |                     | 10 Kern            |                   |
| G-94413-A1 | Agricultural Tractor | Diesel    | 1995     | 60     | Tier 0   | 2020   | 125    | Tier 4 Final            | 400                  |                      |                     | 10 Kern            |                   |
| G-94421-A1 | Agricultural Tractor | Diesel    | 1989     | 81     | Tier 0   | 2020   | 125    | Tier 4 Final            | 393                  |                      |                     | 10 Kern            |                   |
| G-94422-A1 | Agricultural Tractor | Diesel    | 2001     | 108    | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1200                 |                      |                     | 10 Kern            |                   |
| G-94425-A1 | Agricultural Tractor | Diesel    | 1994     | 56     | Tier 0   | 2020   | 125    | Tier 4 Final            | 571                  |                      |                     | 10 Kern            |                   |
| G-94426-A1 | Agricultural Tractor | Diesel    | 1983     | 97     | Tier 0   | 2019   | 114    | Tier 4 Final            | 1000                 |                      |                     | 10 Fresno          |                   |
| G-94428-A1 | Agricultural Tractor | Diesel    | 1959     | 32     | Tier 0   | 2020   | 50     | Tier 4 Final            | 300                  |                      |                     | 10 Tulare          |                   |
| G-94449-A1 | Agricultural Tractor | Diesel    | 1994     | 103    | Tier 0   | 2020   | 123    | Tier 4 Final            | 1000                 |                      |                     | 10 Kings           |                   |
| G-94729-A1 | Wheel Loader         | Diesel    | 1990     | 110    | Tier 0   | 2020   | 182    | Tier 4 Final            | 2900                 |                      |                     | 10 Kern            |                   |

## Description Vehicle Replacement

| Project #  | Primary Function        | Fuel Type | Baseline |        |          | New    |        |                | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|-------------------------|-----------|----------|--------|----------|--------|--------|----------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                         |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier       |                      |                      |                     |                    |                   |
| G-94736-A1 | Wheel Loader            | Diesel    | 1993     | 98     | Tier 0   | 2020   | 182    | Tier 4 Final   | 2900                 |                      |                     | 10 Kern            |                   |
| G-94777-A1 | Nut Sweeper             | Diesel    | 2003     | 80     | Tier 1   | 2019   | 74     | Tier 4 Final   | 450                  |                      |                     | 10 Kings           |                   |
| G-94787-A1 | Agricultural Tractor    | Diesel    | 2005     | 99     | Tier 2   | 2018   | 114    | Tier 4 Final   | 500                  |                      |                     | 10 Kern            |                   |
| G-94799-A1 | Wheel Loader            | Diesel    | 1969     | 100    | Tier 0   | 2020   | 152    | Tier 4 Final   | 1500                 |                      |                     | 10 Tulare          |                   |
| G-94806-A2 | Nut Sweeper             | Diesel    | 2005     | 80     | Tier 2   | 2019   | 74     | Tier 4 Final   | 450                  |                      |                     | 10 Kings           |                   |
| G-94832-A1 | Agricultural Tractor    | Diesel    | 1998     | 64     | Tier 1   | 2020   | 114    | Tier 4 Final   | 400                  |                      |                     | 10 Tulare          |                   |
| G-95096-A1 | Agricultural Tractor    | Diesel    | 2001     | 115    | Tier 1   | 2020   | 123    | Tier 4 Final   | 400                  |                      |                     | 10 Kern            |                   |
| G-95100-A1 | Agricultural Tractor    | Diesel    | 1995     | 115    | Tier 0   | 2020   | 123    | Tier 4 Final   | 400                  |                      |                     | 10 Kern            |                   |
| G-95102-A1 | Back Hoe                | Diesel    | 1986     | 69     | Tier 0   | 2020   | 72     | Tier 4 Interim | 500                  |                      |                     | 10 Kern            |                   |
| G-95131-A1 | Agricultural Tractor    | Diesel    | 1999     | 110    | Tier 1   | 2019   | 114    | Tier 4 Final   | 400                  |                      |                     | 10 Kern            |                   |
| G-95146-A1 | Agricultural Tractor    | Diesel    | 1981     | 31     | Tier 0   | 2018   | 35     | Tier 4 Final   | 500                  |                      |                     | 10 Kern            |                   |
| G-95148-A1 | Agricultural Tractor    | Diesel    | 1980     | 31     | Tier 0   | 2018   | 35     | Tier 4 Final   | 500                  |                      |                     | 10 Kern            |                   |
| G-95209-A1 | Back Hoe                | Diesel    | 1983     | 69     | Tier 0   | 2020   | 74     | Tier 4 Final   | 400                  |                      |                     | 10 Kern            |                   |
| G-95211-A1 | Back Hoe                | Diesel    | 1985     | 60     | Tier 0   | 2019   | 74     | Tier 4 Final   | 300                  |                      |                     | 10 Kern            |                   |
| G-95213-A1 | Agricultural Tractor    | Diesel    | 1995     | 84     | Tier 0   | 2019   | 121    | Tier 4 Final   | 300                  |                      |                     | 10 Tulare          |                   |
| G-95215-A1 | Back Hoe                | Diesel    | 1985     | 82     | Tier 0   | 2020   | 74     | Tier 4 Final   | 300                  |                      |                     | 10 Kern            |                   |
| G-95217-A1 | Back Hoe                | Diesel    | 1983     | 69     | Tier 0   | 2020   | 74     | Tier 4 Final   | 500                  |                      |                     | 10 Kern            |                   |
| G-95218-A1 | Back Hoe                | Diesel    | 2004     | 78     | Tier 1   | 2020   | 74     | Tier 4 Final   | 500                  |                      |                     | 10 Kern            |                   |
| G-95220-A1 | Forklift                | Diesel    | 1980     | 42     | Tier 0   | 2019   | 74     | Tier 4 Final   | 500                  |                      |                     | 10 Kern            |                   |
| G-95222-A1 | Forklift                | Diesel    | 1980     | 42     | Tier 0   | 2020   | 74     | Tier 4 Final   | 500                  |                      |                     | 10 Kern            |                   |
| G-95223-A1 | Forklift                | Diesel    | 1980     | 42     | Tier 0   | 2020   | 74     | Tier 4 Final   | 500                  |                      |                     | 10 Kern            |                   |
| G-95224-A1 | Motor Grader            | Diesel    | 1978     | 145    | Tier 0   | 2019   | 74     | Tier 4 Final   | 400                  |                      |                     | 10 Kern            |                   |
| G-95316-A1 | Wheel Loader            | Diesel    | 1980     | 80     | Tier 0   | 2020   | 164    | Tier 4 Final   | 1100                 |                      |                     | 10 Kings           |                   |
| G-95358-A1 | Agricultural Tractor    | Diesel    | 2006     | 95     | Tier 2   | 2019   | 115    | Tier 4 Final   | 500                  |                      |                     | 10 Kings           |                   |
| G-95362-A1 | Agricultural Tractor    | Diesel    | 2006     | 95     | Tier 2   | 2019   | 115    | Tier 4 Final   | 500                  |                      |                     | 10 Kings           |                   |
| G-95363-A1 | Agricultural Tractor    | Diesel    | 2006     | 95     | Tier 2   | 2019   | 115    | Tier 4 Final   | 500                  |                      |                     | 10 Kings           |                   |
| G-95364-A1 | Agricultural Tractor    | Diesel    | 2007     | 95     | Tier 2   | 2019   | 115    | Tier 4 Final   | 450                  |                      |                     | 10 Kings           |                   |
| G-95430-A1 | Other Agricultural Equi | Diesel    | 2004     | 110    | Tier 2   | 2020   | 130    | Tier 4 Final   | 600                  |                      |                     | 10 Kern            |                   |
| G-95438-A1 | Wheel Loader            | Diesel    | 2003     | 160    | Tier 2   | 2020   | 182    | Tier 4 Final   | 1400                 |                      |                     | 10 Tulare          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| G-95490-A1 | Agricultural Tractor | Diesel    | 2006     | 98     | Tier 2   | 2020   | 121    | Tier 4 Final | 600                  |                      |                     | 10 Tulare          |                   |
| G-95669-A1 | Agricultural Tractor | Diesel    | 2005     | 91     | Tier 2   | 2020   | 58     | Tier 4 Final | 400                  |                      |                     | 10 Tulare          |                   |
| G-95672-A1 | Agricultural Tractor | Diesel    | 1974     | 54     | Tier 0   | 2019   | 50     | Tier 4 Final | 300                  |                      |                     | 10 Kern            |                   |
| G-95673-A1 | Agricultural Tractor | Diesel    | 2001     | 88     | Tier 1   | 2019   | 100    | Tier 4 Final | 350                  |                      |                     | 10 Kern            |                   |
| G-95720-A1 | Agricultural Tractor | Diesel    | 2008     | 109    | Tier 2   | 2020   | 114    | Tier 4 Final | 400                  |                      |                     | 10 Tulare          |                   |
| G-95760-A1 | Back Hoe             | Diesel    | 1985     | 63     | Tier 0   | 2020   | 100    | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |
| G-95852-A1 | Agricultural Tractor | Diesel    | 1998     | 92     | Tier 1   | 2019   | 108    | Tier 4 Final | 450                  |                      |                     | 10 Tulare          |                   |
| G-95854-A1 | Agricultural Tractor | Diesel    | 2000     | 105    | Tier 1   | 2017   | 73     | Tier 4 Final | 1200                 |                      |                     | 10 Kern            |                   |
| G-95868-A1 | Agricultural Tractor | Diesel    | 1958     | 225    | Tier 0   | 2020   | 123    | Tier 4 Final | 1000                 |                      |                     | 10 Kern            |                   |
| G-95870-A1 | Almond Shaker        | Diesel    | 1997     | 105    | Tier 0   | 2020   | 139    | Tier 4 Final | 750                  |                      |                     | 10 Kern            |                   |
| G-95871-A1 | Agricultural Tractor | Diesel    | 1985     | 60     | Tier 0   | 2020   | 73     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95872-A1 | Agricultural Tractor | Diesel    | 1979     | 60     | Tier 0   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95873-A1 | Agricultural Tractor | Diesel    | 1991     | 60     | Tier 0   | 2020   | 73     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95874-A1 | Agricultural Tractor | Diesel    | 1991     | 60     | Tier 0   | 2020   | 73     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95875-A1 | Agricultural Tractor | Diesel    | 2008     | 50     | Tier 2   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95876-A1 | Agricultural Tractor | Diesel    | 2008     | 50     | Tier 2   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95888-A1 | Agricultural Tractor | Diesel    | 2006     | 35     | Tier 2   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95890-A1 | Agricultural Tractor | Diesel    | 2006     | 35     | Tier 2   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95892-A1 | Agricultural Tractor | Diesel    | 2006     | 35     | Tier 2   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95895-A1 | Agricultural Tractor | Diesel    | 2006     | 35     | Tier 2   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95896-A1 | Agricultural Tractor | Diesel    | 2005     | 35     | Tier 2   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95899-A1 | Agricultural Tractor | Diesel    | 2006     | 35     | Tier 2   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95901-A1 | Agricultural Tractor | Diesel    | 2006     | 35     | Tier 2   | 2019   | 56     | Tier 4 Final | 600                  |                      |                     | 10 Kern            |                   |
| G-95910-A1 | Sweeper              | Diesel    | 2005     | 80     | Tier 2   | 2019   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-95911-A1 | Sweeper              | Diesel    | 2005     | 80     | Tier 1   | 2019   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-95912-A1 | Sweeper              | Diesel    | 2004     | 80     | Tier 2   | 2019   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-95913-A1 | Sweeper              | Diesel    | 2003     | 80     | Tier 1   | 2019   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-95914-A1 | Sweeper              | Diesel    | 2002     | 80     | Tier 1   | 2019   | 74     | Tier 4 Final | 500                  |                      |                     | 10 Fresno          |                   |
| G-95932-A1 | Forklift             | Diesel    | 2003     | 35     | Tier 1   | 2018   | 39     | Tier 4 Final | 500                  |                      |                     | 10 Tulare          |                   |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-95940-A1 | Agricultural Tractor | Diesel    | 1972     | 42     | Tier 0   | 2020   | 52     | Tier 4 Final            | 200                  |                      |                     | 10                 | San Joaquin       |
| G-95957-A1 | Chopper              | Diesel    | 2012     | 764    | Tier 2   | 2020   | 912    | Tier 4 Final            | 1200                 |                      |                     | 10                 | Kings             |
| G-95958-A1 | Chopper              | Diesel    | 2011     | 764    | Tier 2   | 2020   | 912    | Tier 4 Final            | 1200                 |                      |                     | 10                 | Kings             |
| G-95959-A1 | Sweeper              | Diesel    | 1994     | 70     | Tier 0   | 2020   | 74     | Tier 4 Final            | 1500                 |                      |                     | 10                 | Kern              |
| G-96051-A1 | Back Hoe             | Diesel    | 1976     | 50     | Tier 0   | 2020   | 74     | Tier 4 Final            | 500                  |                      |                     | 10                 | Kern              |
| G-96052-A1 | Agricultural Backhoe | Diesel    | 1978     | 62     | Tier 0   | 2019   | 74     | Tier 4 Final            | 500                  |                      |                     | 10                 | Kern              |
| G-96056-A1 | Agricultural Backhoe | Diesel    | 1987     | 69     | Tier 0   | 2019   | 74     | Tier 4 Final            | 500                  |                      |                     | 10                 | Kern              |
| G-96060-A1 | Back Hoe             | Diesel    | 2006     | 93     | Tier 2   | 2019   | 74     | Tier 4 Final            | 800                  |                      |                     | 10                 | Kern              |
| G-96122-A1 | Agricultural Tractor | Diesel    | 1998     | 100    | Tier 1   | 2020   | 115    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Fresno            |
| G-96151-A1 | Agricultural Tractor | Diesel    | 1996     | 114    | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 2200                 |                      |                     | 10                 | Tulare            |
| G-96153-A1 | Agricultural Tractor | Diesel    | 1977     | 86     | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 2200                 |                      |                     | 10                 | Tulare            |
| G-96155-A1 | Wheel Loader         | Diesel    | 1998     | 75     | Tier 0   | 2019   | 74     | Tier 4 Final            | 2500                 |                      |                     | 10                 | Kern              |
| G-96220-A1 | Wheel Loader         | Diesel    | 1999     | 142    | Tier 1   | 2020   | 166    | Tier 4 Final            | 500                  |                      |                     | 10                 | Fresno            |
| G-96286-A1 | Almond Shaker        | Diesel    | 1993     | 120    | Tier 0   | 2020   | 148    | Tier 4 Final            | 350                  |                      |                     | 10                 | San Joaquin       |
| G-96349-A1 | Agricultural Tractor | Diesel    | 1985     | 52     | Tier 0   | 2018   | 74     | Tier 4 Final            | 200                  |                      |                     | 10                 | San Joaquin       |
| G-96394-A1 | Agricultural Tractor | Diesel    | 1995     | 134    | Tier 0   | 2020   | 188    | Tier 4 Final            | 800                  |                      |                     | 10                 | Tulare            |
| G-96404-A1 | Agricultural Tractor | Diesel    | 1981     | 132    | Tier 0   | 2020   | 123    | Tier 4 Final            | 400                  |                      |                     | 10                 | Kern              |
| G-96413-A1 | Forklift             | Diesel    | 1991     | 58     | Tier 0   | 2020   | 74     | Tier 4 Final            | 200                  |                      |                     | 10                 | Kern              |
| G-96415-A1 | Forklift             | Diesel    | 1982     | 57     | Tier 0   | 2020   | 74     | Tier 4 Final            | 200                  |                      |                     | 10                 | Kern              |
| G-96508-A1 | Agricultural Tractor | Diesel    | 1996     | 102    | Tier 0   | 2019   | 114    | Tier 4 Final            | 400                  |                      |                     | 10                 | Kern              |
| G-96514-A1 | Forklift             | Diesel    | 1988     | 65     | Tier 0   | 2019   | 74     | Tier 4 Final            | 350                  |                      |                     | 10                 | Kern              |
| G-96516-A1 | Agricultural Tractor | Diesel    | 2000     | 105    | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 1200                 |                      |                     | 10                 | Kern              |
| G-96517-A1 | Agricultural Tractor | Diesel    | 1999     | 64     | Tier 1   | 2019   | 64     | Tier 4 Final            | 1200                 |                      |                     | 10                 | Kern              |
| G-96518-A1 | Wheel Loader         | Diesel    | 1987     | 52     | Tier 0   | 2020   | 74     | Tier 4 Final            | 1000                 |                      |                     | 10                 | Kern              |
| G-96521-A1 | Back Hoe             | Diesel    | 1976     | 50     | Tier 0   | 2020   | 96     | Tier 4 Final            | 200                  |                      |                     | 10                 | Tulare            |
| G-96522-A1 | Back Hoe             | Diesel    | 2005     | 95     | Tier 2   | 2020   | 100    | Tier 4 Final            | 1000                 |                      |                     | 10                 | Tulare            |
| G-96594-A1 | Agricultural Tractor | Diesel    | 2005     | 39     | Tier 2   | 2019   | 51     | Tier 4 Final            | 150                  |                      |                     | 10                 | Kern              |
| G-96612-A1 | Almond Shaker        | Diesel    | 1997     | 120    | Tier 0   | 2020   | 148    | Tier 4 Final            | 230                  |                      |                     | 10                 | Kern              |
| G-96613-A1 | Agricultural Tractor | Diesel    | 1992     | 350    | Tier 0   | 2020   | 114    | Tier 4 Final            | 400                  |                      |                     | 10                 | Kern              |

## Description Vehicle Replacement

| Project #  | Primary Function     | Fuel Type | Baseline |        |          | New    |        |                         | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|----------------------|-----------|----------|--------|----------|--------|--------|-------------------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                      |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier                |                      |                      |                     |                    |                   |
| G-96621-A1 | Agricultural Tractor | Diesel    | 1969     | 114    | Tier 0   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 500                  |                      |                     | 10                 | Kern              |
| G-96633-A1 | Agricultural Tractor | Diesel    | 1999     | 114    | Tier 1   | 2019   | 106    | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-96634-A1 | Agricultural Tractor | Diesel    | 2001     | 114    | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10                 | Kern              |
| G-96635-A1 | Agricultural Tractor | Diesel    | 1999     | 114    | Tier 1   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10                 | Kern              |
| G-96636-A1 | Agricultural Tractor | Diesel    | 2004     | 90     | Tier 2   | 2019   | 106    | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10                 | Kern              |
| G-96735-A1 | Agricultural Tractor | Diesel    | 1978     | 60     | Tier 0   | 2020   | 65     | Tier 4 Final            | 100                  |                      |                     | 10                 | Tulare            |
| G-96763-A1 | Sweeper              | Diesel    | 1980     | 86     | Tier 0   | 2019   | 74     | Tier 4 Final            | 500                  |                      |                     | 10                 | Tulare            |
| G-96778-A1 | Skid Loader          | Diesel    | 2003     | 82     | Tier 1   | 2019   | 74     | Tier 4 Final            | 400                  |                      |                     | 10                 | Kern              |
| G-96779-A1 | Agricultural Tractor | Diesel    | 2006     | 115    | Tier 2   | 2014   | 111    | Tier 4 Phase In/Alt NOx | 500                  |                      |                     | 10                 | Kern              |
| G-96830-A1 | Back Hoe             | Diesel    | 2005     | 95     | Tier 2   | 2018   | 96     | Tier 4 Final            | 400                  |                      |                     | 10                 | Kern              |
| G-96831-A1 | Agricultural Tractor | Diesel    | 1975     | 151    | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10                 | Kern              |
| G-96833-A1 | Agricultural Tractor | Diesel    | 1992     | 105    | Tier 0   | 2018   | 106    | Tier 4 Phase In/Alt NOx | 600                  |                      |                     | 10                 | Kern              |
| G-96974-A1 | Wheel Loader         | Diesel    | 1990     | 144    | Tier 0   | 2020   | 166    | Tier 4 Final            | 3500                 |                      |                     | 10                 | Fresno            |
| G-97040-A1 | Wheel Loader         | Diesel    | 1990     | 110    | Tier 0   | 2018   | 173    | Tier 4 Final            | 650                  |                      |                     | 10                 | Kern              |
| G-97138-A1 | Agricultural Tractor | Diesel    | 1966     | 25     | Tier 0   | 2020   | 33     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-97140-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2020   | 33     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-97141-A1 | Agricultural Tractor | Diesel    | 1991     | 25     | Tier 0   | 2020   | 33     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-97142-A1 | Agricultural Tractor | Diesel    | 1996     | 25     | Tier 0   | 2020   | 33     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-97152-A1 | Agricultural Tractor | Diesel    | 1993     | 25     | Tier 0   | 2020   | 33     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-97154-A1 | Agricultural Tractor | Diesel    | 1993     | 25     | Tier 0   | 2020   | 33     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-97155-A1 | Agricultural Tractor | Diesel    | 1993     | 25     | Tier 0   | 2020   | 33     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-97156-A1 | Agricultural Tractor | Diesel    | 1993     | 25     | Tier 0   | 2020   | 33     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-97157-A1 | Agricultural Tractor | Diesel    | 1993     | 25     | Tier 0   | 2020   | 33     | Tier 4 Final            | 600                  |                      |                     | 10                 | Kern              |
| G-97784-A1 | Chopper              | Diesel    | 2002     | 525    | Tier 2   | 2018   | 617    | Tier 4 Final            | 800                  |                      |                     | 10                 | Tulare            |
| G-99252-A1 | Agricultural Tractor | Diesel    | 1979     | 261    | Tier 0   | 2019   | 173    | Tier 4 Final            | 150                  |                      |                     | 10                 | Fresno            |



## Description Engine Repower

| Project #     | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|---------------|------------------|-----------|-------------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
| C-39126-10-A1 | Scraper          | Diesel    | 1976        | 490    | Tier 2   | 2010       | 475    | Tier 3       | 2200                 |                      |                     | 3                  | Fresno            |
| C-40344-2-A1  | Crawler Dozer    | Diesel    | 1984        | 700    | Tier 0   | 2010       | 740    | Tier 3       | 1500                 |                      |                     | 10                 | Madera            |
| C-62103-1-A1  | Ripper           | Diesel    | 1986        | 770    | Tier 0   | 2010       | 932    | Tier 2       | 2000                 |                      |                     | 7                  | Stanislaus        |
| C-63229-1-A1  | Scraper          | Diesel    | 1977        | 360    | Tier 2   | 2018       | 355    | Tier 4 Final | 1900                 |                      |                     | 3                  | Kern              |
| C-63233-1-A1  | Scraper          | Diesel    | 1980        | 360    | Tier 2   | 2018       | 355    | Tier 4 Final | 2000                 |                      |                     | 4                  | Kern              |
| C-64891-1-A1  | Wheel Loader     | Diesel    | 1991        | 170    | Tier 0   | 2020       | 174    | Tier 4 Final | 1200                 |                      |                     | 3                  | Kern              |
| C-64895-1-A1  | Wheel Loader     | Diesel    | 1995        | 180    | Tier 0   | 2020       | 174    | Tier 4 Final | 1200                 |                      |                     | 3                  | Kern              |
| C-64896-1-A1  | Wheel Loader     | Diesel    | 1985        | 157    | Tier 0   | 2020       | 174    | Tier 4 Final | 1200                 |                      |                     | 3                  | Kern              |
| C-64899-1-A1  | Wheel Loader     | Diesel    | 1989        | 160    | Tier 0   | 2020       | 174    | Tier 4 Final | 1200                 |                      |                     | 3                  | Kern              |
| C-64901-1-A1  | Wheel Loader     | Diesel    | 1991        | 180    | Tier 0   | 2020       | 174    | Tier 4 Final | 1200                 |                      |                     | 3                  | Kern              |
| C-64902-1-A1  | Wheel Loader     | Diesel    | 1993        | 180    | Tier 0   | 2020       | 174    | Tier 4 Final | 1200                 |                      |                     | 3                  | Kern              |
| C-64940-1-A1  | Wheel Loader     | Diesel    | 1991        | 170    | Tier 0   | 2020       | 174    | Tier 4 Final | 1200                 |                      |                     | 3                  | Kern              |
| G-65603-A1    | Excavator        | Diesel    | 1997        | 285    | Tier 1   | 2017       | 382    | Tier 4 Final | 1300                 |                      |                     | 5                  | Tulare            |
| G-72611-A1    | Grape Harvester  | Diesel    | 1977        | 99     | Tier 2   | 2011       | 84     | Tier 3       | 400                  |                      |                     | 10                 | Madera            |
| G-77913-A1    | Dozer            | Diesel    | 1980        | 700    | Tier 0   | 2010       | 693    | Tier 3       | 750                  |                      |                     | 10                 | Fresno            |

Project Type Ag Engine

### SJVAPCD Project Data 2021

Description Diesel to Diesel

| Project #    | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|------------------|-----------|-------------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
| C-58718-1-A1 | Irrigation Pump  | Diesel    | 2010        | 225    | Tier 3   | 2019       | 225    | Tier 4 Final | 2500                 |                      |                     | 7                  | Fresno            |
| C-58721-1-A1 | Irrigation Pump  | Diesel    | 2010        | 173    | Tier 3   | 2019       | 174    | Tier 4 Final | 2500                 |                      |                     | 7                  | Fresno            |
| C-58723-1-A1 | Irrigation Pump  | Diesel    | 2010        | 225    | Tier 3   | 2019       | 225    | Tier 4 Final | 2500                 |                      |                     | 7                  | Fresno            |
| C-58936-1-A1 | Irrigation Pump  | Diesel    | 2008        | 225    | Tier 3   | 2019       | 225    | Tier 4 Final | 2500                 |                      |                     | 7                  | Fresno            |
| C-58998-1-A1 | Irrigation Pump  | Diesel    | 2008        | 173    | Tier 3   | 2019       | 174    | Tier 4 Final | 2500                 |                      |                     | 7                  | Fresno            |

Project Type Ag Engine

### SJVAPCD Project Data 2021

Description Diesel to Electric

| Project #    | Primary Function | Fuel Type | Baseline |        |          | New Eng |        |          | Annual  | Annual  | Annual       | Project    | Location |
|--------------|------------------|-----------|----------|--------|----------|---------|--------|----------|---------|---------|--------------|------------|----------|
|              |                  |           | Yr       | Old HP | Old Tier | Yr      | New HP | New Tier | Usage   | Usage   |              |            |          |
|              |                  |           |          |        |          |         |        |          | (Hours) | (Miles) | Usage (Fuel) | Life (Yrs) | (County) |
| C-63277-1-A1 | Irrigation Pump  | Diesel    | 2007     | 190    | Tier 3   | 2018    | 125    |          | 508     |         |              | 10         | Fresno   |

Project Type Yard Truck  
**Description Replacement**

**SJVAPCD Project Data 2021**

| Project #  | Primary Function      | Fuel Type | Baseline Yr | Old HP | Old Tier | New Eng Yr | New HP | New Tier | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|-----------------------|-----------|-------------|--------|----------|------------|--------|----------|----------------------|----------------------|---------------------|--------------------|-------------------|
| G-83895-A1 | Agricultural          | Diesel    | 2003        | 173    | Tier 2   | 2020       |        |          | 250                  |                      | 43422               | 5                  | San Joaquin       |
| G-83896-A1 | General On-Road Heavy | Diesel    | 2003        | 173    | Tier 2   | 2020       |        |          | 266                  |                      | 43422               | 5                  | San Joaquin       |
| G-83897-A1 | Agricultural          | Diesel    | 1997        | 174    | Tier 1   | 2020       |        |          |                      |                      | 43422               | 5                  | Stanislaus        |
| G-83898-A1 | Agricultural          | Diesel    | 1998        | 160    | Tier 1   | 2020       |        |          | 1641                 |                      | 43422               | 5                  | Fresno            |
| G-83900-A1 | General On-Road Heavy | Diesel    | 1998        | 160    | Tier 1   | 2020       |        |          | 1641                 |                      | 43422               | 5                  | Fresno            |
| G-83980-A1 | General On-Road Heavy | Diesel    | 2003        | 152    | Tier 0   | 2020       |        |          |                      |                      | 43422               | 5                  | Stanislaus        |
| G-83981-A1 | Agricultural          | Diesel    | 2002        |        | Tier 2   | 2019       |        |          |                      |                      | 43422               | 5                  | Stanislaus        |
| G-85033-A1 | Agricultural          | Diesel    | 1999        | 170    | Tier 1   | 2020       |        |          |                      |                      | 43422               | 5                  | Stanislaus        |
| G-85034-A1 | Agricultural          | Diesel    | 2001        | 215    | Tier 1   | 2020       |        |          |                      |                      | 43422               | 5                  | Stanislaus        |
| G-85035-A1 | Agricultural          | Diesel    | 2005        | 200    |          | 2020       |        |          |                      | 14962                |                     | 5                  | Stanislaus        |
| G-85036-A1 | Agricultural          | Diesel    | 2006        | 200    |          | 2020       |        |          |                      | 14962                |                     | 5                  | Stanislaus        |
| G-86637-A1 | Agricultural          | Diesel    | 2001        | 155    | Tier 1   | 2020       |        |          |                      |                      | 43422               | 5                  | Kern              |
| G-91328-A1 | Agricultural          | Diesel    | 2000        | 225    |          | 2020       |        |          |                      | 14962                | 1463                | 5                  | Madera            |
| G-91331-A1 | Agricultural          | Diesel    | 2002        | 200    |          | 2020       |        |          |                      |                      | 1463                | 5                  | Madera            |
| G-91332-A1 | Agricultural          | Diesel    | 2000        | 148    | Tier 1   | 2020       |        |          | 1641                 |                      | 43422               | 5                  | Madera            |

Project Type On-Road Prop 1B

### SJVAPCD Project Data 2021

#### Description Vehicle Replacement

| Project #  | Primary Function   | Fuel Type | Baseline Yr | Old HP | Old Tier | New Eng Yr | New HP | New Tier | Annual        | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|--------------------|-----------|-------------|--------|----------|------------|--------|----------|---------------|----------------------|---------------------|--------------------|-------------------|
|            |                    |           |             |        |          |            |        |          | Usage (Hours) |                      |                     |                    |                   |
| C-56405-1A | Long Haul Trucking | Diesel    | 2000        | 430    |          | 2019       | 400    |          |               | 45982                |                     | 5                  | Kern              |

Project Type Prop 1B

### SJVAPCD Project Data 2021

#### Description Locomotive Replacement

---

| Project #    | Primary Function | Fuel Type | Baseline |        |          | New    |        |              | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|--------------|------------------|-----------|----------|--------|----------|--------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|              |                  |           | Yr       | Old HP | Old Tier | Eng Yr | New HP | New Tier     |                      |                      |                     |                    |                   |
| C-56774-1-A1 | Line Haul        | Diesel    | 2005     | 4400   | Tier 2   | 2020   | 4400   | Tier 4 Final |                      |                      | 173785              | 15                 | Fresno            |

## Description Ag Truck Replacement

| Project #  | Primary Function   | Fuel Type | Baselin |        | New Eng  |      |        | Annual Usage | Annual Usage | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|--------------------|-----------|---------|--------|----------|------|--------|--------------|--------------|---------------------|--------------------|-------------------|
|            |                    |           | e Yr    | Old HP | Old Tier | Yr   | New HP | New Tier     | (Hours)      |                     |                    |                   |
| G-69113-A1 | Agricultural       | Diesel    | 2008    | 410    |          | 2018 | 425    |              | 17677        |                     | 3                  | Stanislaus        |
| G-69978-A1 | Agricultural       | Diesel    | 1994    | 190    |          | 2019 | 200    |              | 3369         |                     | 3                  | Kings             |
| G-69979-A1 | Agricultural       | Diesel    | 1994    | 210    |          | 2019 | 200    |              | 729          |                     | 3                  | Kings             |
| G-69980-A1 | Agricultural       | Diesel    | 1994    | 210    |          | 2019 | 200    |              | 153          |                     | 3                  | Kings             |
| G-69982-A1 | Agricultural       | Diesel    | 1997    | 190    |          | 2019 | 200    |              | 729          |                     | 3                  | Kings             |
| G-69998-A1 | Agricultural       | Diesel    | 1997    | 190    |          | 2019 | 200    |              | 2971         |                     | 3                  | Kings             |
| G-69999-A1 | Agricultural       | Diesel    | 1994    | 190    |          | 2019 | 200    |              | 2069         |                     | 3                  | Kings             |
| G-70161-A1 | Other              | Diesel    | 1990    | 350    |          | 2011 | 300    |              | 1000         |                     | 3                  | Tulare            |
| G-71112-A1 | Agricultural       | Diesel    | 1999    | 435    |          | 2019 | 350    |              | 34752        |                     | 3                  | Merced            |
| G-71244-A1 | Agricultural       | Diesel    | 2003    | 431    |          | 2019 | 405    |              | 10000        |                     | 3                  | Merced            |
| G-71247-A1 | Agricultural       | Diesel    | 1984    | 400    |          | 2019 | 405    |              | 10000        |                     | 3                  | Merced            |
| G-71250-A1 | Agricultural       | Diesel    | 1988    | 425    |          | 2020 | 405    |              | 10000        |                     | 3                  | Merced            |
| G-71259-A1 | Agricultural       | Diesel    | 1989    | 350    |          | 2020 | 405    |              | 10000        |                     | 3                  | Merced            |
| G-71268-A1 | Agricultural       | Diesel    | 1996    | 370    |          | 2019 | 405    |              | 10000        |                     | 3                  | Merced            |
| G-71284-A1 | Agricultural       | Diesel    | 2002    | 250    |          | 2019 | 330    |              | 10000        |                     | 3                  | Fresno            |
| G-71298-A1 | Agricultural       | Diesel    | 2003    | 410    |          | 2015 | 350    |              | 10000        |                     | 3                  | Stanislaus        |
| G-71305-A1 | Agricultural       | Diesel    | 1993    | 350    |          | 2014 | 300    |              | 10000        |                     | 3                  | Stanislaus        |
| G-71310-A1 | Agricultural       | Diesel    | 1989    | 444    |          | 2020 | 525    |              | 7            |                     | 3                  | Merced            |
| G-71323-A1 | Agricultural       | Diesel    | 1997    | 280    |          | 2013 | 350    |              | 10000        |                     | 3                  | Stanislaus        |
| G-71341-A1 | Agricultural       | Diesel    | 1992    | 195    |          | 2019 | 240    |              | 85           |                     | 3                  | San Joaquin       |
| G-71346-A1 | Agricultural       | Diesel    | 1995    | 315    |          | 2019 | 350    |              | 1137         |                     | 3                  | San Joaquin       |
| G-71367-A1 | Agricultural       | Diesel    | 1991    | 210    |          | 2018 | 485    |              | 2200         |                     | 3                  | Kern              |
| G-71379-A1 | Agricultural       | Diesel    | 1981    | 210    |          | 2019 | 485    |              | 38           |                     | 3                  | Kern              |
| G-71382-A1 | Agricultural       | Diesel    | 1995    | 275    |          | 2019 | 485    |              | 2517         |                     | 3                  | Kern              |
| G-71390-A1 | Agricultural Air S | Diesel    | 1994    | 250    |          | 2019 | 485    |              | 5333         |                     | 3                  | Kings             |
| G-71395-A1 | Agricultural       | Diesel    | 1994    | 250    |          | 2019 | 485    |              | 10988        |                     | 3                  | Kings             |
| G-71417-A1 | Agricultural       | Diesel    | 2006    | 300    |          | 2020 | 375    |              | 10000        |                     | 3                  | Stanislaus        |
| G-71419-A1 | Agricultural       | Diesel    | 2006    | 300    |          | 2020 | 375    |              | 7761         |                     | 3                  | Stanislaus        |
| G-71422-A1 | Agricultural       | Diesel    | 2006    | 300    |          | 2020 | 375    |              | 10000        |                     | 3                  | Stanislaus        |
| G-71423-A1 | Agricultural       | Diesel    | 2006    | 300    |          | 2020 | 375    |              | 10000        |                     | 3                  | Stanislaus        |
| G-71427-A1 | Agricultural       | Diesel    | 2006    | 300    |          | 2020 | 375    |              | 10000        |                     | 3                  | Stanislaus        |
| G-71436-A1 | Agricultural       | Diesel    | 2006    | 330    |          | 2020 | 375    |              | 10000        |                     | 3                  | Stanislaus        |

Project Type On-Road

## SJVAPCD Project Data 2021

## Description Ag Truck Replacement

| Project #  | Primary Function | Fuel Type | Baselin |        |          | New Eng |        |          | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|------------------|-----------|---------|--------|----------|---------|--------|----------|----------------------|----------------------|---------------------|--------------------|-------------------|
|            |                  |           | e Yr    | Old HP | Old Tier | Yr      | New HP | New Tier |                      |                      |                     |                    |                   |
| G-71438-A1 | Agricultural     | Diesel    | 2006    | 300    |          | 2020    | 375    |          |                      | 10012                | 3                   | Stanislaus         |                   |
| G-71440-A1 | Agricultural     | Diesel    | 1992    | 330    |          | 2013    | 300    |          |                      | 10000                | 3                   | Stanislaus         |                   |
| G-71672-A1 | Agricultural     | Diesel    | 2008    | 350    |          | 2014    | 350    |          |                      | 1829                 | 3                   | Stanislaus         |                   |
| G-71673-A1 | Agricultural     | Diesel    | 1997    | 280    |          | 2013    | 350    |          |                      | 10000                | 3                   | Stanislaus         |                   |
| G-71675-A1 | Agricultural     | Diesel    | 1993    | 330    |          | 2013    | 350    |          |                      | 8805                 | 3                   | Stanislaus         |                   |
| G-71682-A1 | Agricultural     | Diesel    | 1995    | 350    |          | 2014    | 350    |          |                      | 10000                | 3                   | Stanislaus         |                   |
| G-71684-A1 | Agricultural     | Diesel    | 1995    | 350    |          | 2014    | 350    |          |                      | 10000                | 3                   | Stanislaus         |                   |
| G-71709-A1 | Agricultural     | Diesel    | 1988    | 425    |          | 2020    | 525    |          |                      | 4739                 | 3                   | Stanislaus         |                   |
| G-71710-A1 | Agricultural     | Diesel    | 1999    | 430    |          | 2020    | 455    |          |                      | 10000                | 3                   | Stanislaus         |                   |
| G-71711-A1 | Agricultural     | Diesel    | 1996    | 370    |          | 2020    | 455    |          |                      | 10000                | 3                   | Stanislaus         |                   |
| G-71732-A1 | Agricultural     | Diesel    | 1992    | 275    |          | 2013    | 220    |          |                      | 120                  | 3                   | San Joaquin        |                   |
| G-71733-A1 | Agricultural     | Diesel    | 1990    | 185    |          | 2013    | 250    |          |                      | 434                  | 3                   | San Joaquin        |                   |
| G-72041-A1 | Agricultural     | Diesel    | 1997    | 330    |          | 2020    | 405    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72044-A1 | Agricultural     | Diesel    | 1998    | 370    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72046-A1 | Agricultural     | Diesel    | 1998    | 455    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72047-A1 | Agricultural     | Diesel    | 1997    | 370    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72066-A1 | Agricultural     | Diesel    | 1997    | 370    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72069-A1 | Agricultural     | Diesel    | 1997    | 370    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72072-A1 | Agricultural     | Diesel    | 1996    | 370    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72074-A1 | Agricultural     | Diesel    | 1996    | 370    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72076-A1 | Agricultural     | Diesel    | 1995    | 350    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72077-A1 | Agricultural     | Diesel    | 1996    | 350    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72078-A1 | Agricultural     | Diesel    | 1998    | 430    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72080-A1 | Agricultural     | Diesel    | 1997    | 370    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72081-A1 | Agricultural     | Diesel    | 1998    | 370    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72083-A1 | Agricultural     | Diesel    | 1998    | 455    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72085-A1 | Agricultural     | Diesel    | 1997    | 370    |          | 2020    | 430    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72090-A1 | Agricultural     | Diesel    | 1998    | 370    |          | 2020    | 450    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72093-A1 | Agricultural     | Diesel    | 1996    | 370    |          | 2020    | 450    |          |                      | 10000                | 3                   | Merced             |                   |
| G-72103-A1 | Agricultural     | Diesel    | 2001    | 410    |          | 2019    | 330    |          |                      | 10000                | 3                   | San Joaquin        |                   |
| G-72104-A1 | Agricultural     | Diesel    | 1994    | 280    |          | 2019    | 330    |          |                      | 10000                | 3                   | San Joaquin        |                   |



## Description Ag Truck Replacement

| Project #  | Primary Function | Fuel Type | Baseline |        | New Eng  |      |        | Annual Usage | Annual Usage | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|------------------|-----------|----------|--------|----------|------|--------|--------------|--------------|---------------------|--------------------|-------------------|
|            |                  |           | e Yr     | Old HP | Old Tier | Yr   | New HP | New Tier     | (Hours)      |                     |                    |                   |
| G-72105-A1 | Agricultural     | Diesel    | 1994     | 280    |          | 2019 | 330    |              |              | 10000               | 3                  | San Joaquin       |
| G-72106-A1 | Agricultural     | Diesel    | 1997     | 250    |          | 2020 | 300    |              |              | 10000               | 3                  | San Joaquin       |
| G-72108-A1 | Agricultural     | Diesel    | 1992     | 330    |          | 2020 | 330    |              |              | 10000               | 3                  | San Joaquin       |
| G-72111-A1 | Agricultural     | Diesel    | 2005     | 385    |          | 2020 | 450    |              |              | 10000               | 3                  | San Joaquin       |
| G-72112-A1 | Agricultural     | Diesel    | 1993     | 350    |          | 2019 | 330    |              |              | 10000               | 3                  | San Joaquin       |
| G-72114-A1 | Agricultural     | Diesel    | 2000     | 370    |          | 2015 | 350    |              |              | 10500               | 3                  | Stanislaus        |
| G-72115-A1 | Agricultural     | Diesel    | 2000     | 370    |          | 2015 | 350    |              |              | 9419                | 3                  | Stanislaus        |
| G-72399-A1 | Agricultural     | Diesel    | 2000     | 435    |          | 2019 | 450    |              |              | 10000               | 3                  | Kings             |
| G-72910-A1 | Agricultural     | Diesel    | 2000     | 450    |          | 2020 | 450    |              |              | 7825                | 3                  | Kings             |

## Description Ag UTV Replacement

| Project #  | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier                | New Eng Yr | New HP | New Tier | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|------------------|-----------|-------------|--------|-------------------------|------------|--------|----------|----------------------|----------------------|---------------------|--------------------|-------------------|
| G-68886-A1 | Ag UTV           | Gas       | 2007        | 27     | Control Technology      | 2020       | 30     |          | 400                  |                      |                     | 5                  | Fresno            |
| G-68946-A1 | Ag UTV           | Gas       | 2005        | 20     | Control Technology      | 2020       | 30     |          | 400                  |                      |                     | 5                  | Fresno            |
| G-68989-A1 | Ag UTV           | Gas       | 2008        | 27     | Control Technology      | 2020       | 30     |          | 700                  |                      |                     | 5                  | Fresno            |
| G-68991-A1 | Ag UTV           | Gas       | 2012        | 17     | Control Technology      | 2020       | 30     |          | 700                  |                      |                     | 5                  | Fresno            |
| G-68997-A1 | Ag UTV           | Gas       | 2013        | 14     | Control Technology      | 2020       | 30     |          | 400                  |                      |                     | 5                  | Fresno            |
| G-69001-A1 | Ag UTV           | Gas       | 2007        | 27     | Control Technology      | 2020       | 30     |          | 700                  |                      |                     | 5                  | Fresno            |
| G-69108-A1 | Ag UTV           | Gas       | 2003        | 14     | Uncontrolled Technology | 2020       | 5      |          | 700                  |                      |                     | 5                  | Fresno            |
| G-69109-A1 | Ag UTV           | Gas       | 2007        | 14     | Control Technology      | 2020       | 5      |          | 700                  |                      |                     | 5                  | Fresno            |
| G-69126-A1 | Ag UTV           | Gas       | 2004        | 14     | Control Technology      | 2020       | 30     |          | 700                  |                      |                     | 5                  | Fresno            |
| G-69132-A1 | Ag UTV           | Gas       | 2006        | 14     | Control Technology      | 2020       | 5      |          | 700                  |                      |                     | 5                  | Fresno            |
| G-72886-A1 | Ag UTV           | Gas       | 1986        | 16     | Uncontrolled Technology | 2020       | 30     |          | 350                  |                      |                     | 5                  | Fresno            |
| G-72998-A1 | Ag UTV           | Gas       | 2004        | 16     | Control Technology      | 2020       | 30     |          | 350                  |                      |                     | 5                  | Fresno            |
| G-73117-A1 | Ag UTV           | Gas       | 1998        | 9      | Uncontrolled Technology | 2019       | 22     |          | 400                  |                      |                     | 5                  | Merced            |
| G-73419-A1 | Ag UTV           | Gas       | 2007        | 12     | Control Technology      | 2019       | 6      |          | 400                  |                      |                     | 5                  | Fresno            |
| G-73422-A1 | Ag UTV           | Gas       | 1989        | 20     | Uncontrolled Technology | 2019       | 6      |          | 400                  |                      |                     | 5                  | Fresno            |
| G-73423-A1 | Ag UTV           | Gas       | 1999        | 14     | Uncontrolled Technology | 2019       | 6      |          | 400                  |                      |                     | 5                  | Fresno            |
| G-73428-A1 | Ag UTV           | Gas       | 1999        | 14     | Uncontrolled Technology | 2019       | 6      |          | 400                  |                      |                     | 5                  | Fresno            |
| G-74219-A1 | Ag UTV           | Gas       | 2006        | 23     | Control Technology      | 2019       | 6      |          | 352                  |                      |                     | 5                  | Fresno            |
| G-74491-A1 | Ag UTV           | Gas       | 2012        | 7      | Control Technology      | 2019       | 6      |          | 200                  |                      |                     | 5                  | Kings             |
| G-74508-A1 | Ag UTV           | Gas       | 2004        | 11     | Control Technology      | 2019       | 22     |          | 325                  |                      |                     | 5                  | Kern              |
| G-74714-A1 | Ag UTV           | Gas       | 2009        | 17     | Control Technology      | 2020       | 30     |          | 1000                 |                      |                     | 5                  | Kern              |
| G-74857-A1 | Ag UTV           | Gas       | 1985        | 9      | Uncontrolled Technology | 2019       | 9      |          | 100                  |                      |                     | 5                  | San Joaquin       |
| G-75825-A1 | Ag UTV           | Gas       | 2004        | 10     | Control Technology      | 2020       | 22     |          | 350                  |                      |                     | 5                  | Kern              |
| G-76190-A1 | Ag UTV           | Gas       | 1999        | 30     | Uncontrolled Technology | 2020       | 36     |          | 2000                 |                      |                     | 5                  | Tulare            |
| G-76671-A1 | Ag UTV           | Gas       | 2003        | 17     | Uncontrolled Technology | 2021       | 35     |          | 1100                 |                      |                     | 5                  | Tulare            |
| G-76701-A1 | Ag UTV           | Gas       | 1999        | 15     | Uncontrolled Technology | 2019       | 6      |          | 150                  |                      |                     | 5                  | Madera            |
| G-77075-A1 | Ag UTV           | Gas       | 2006        | 33     | Control Technology      | 2020       | 30     |          | 300                  |                      |                     | 5                  | Fresno            |
| G-77186-A1 | Ag UTV           | Gas       | 2000        | 26     | Uncontrolled Technology | 2020       | 36     |          | 800                  |                      |                     | 5                  | Merced            |
| G-77386-A1 | Ag UTV           | Gas       | 2007        | 16     | Control Technology      | 2021       | 35     |          | 1440                 |                      |                     | 5                  | Tulare            |
| G-77676-A1 | Ag UTV           | Gas       | 2007        | 15     | Control Technology      | 2020       | 36     |          | 1000                 |                      |                     | 5                  | Kern              |
| G-77689-A1 | Ag UTV           | Gas       | 2012        | 15     | Control Technology      | 2020       | 38     |          | 1000                 |                      |                     | 5                  | Fresno            |
| G-77691-A1 | Ag UTV           | Gas       | 2014        | 15     | Control Technology      | 2020       | 22     |          | 1000                 |                      |                     | 5                  | Fresno            |
| G-77695-A1 | Ag UTV           | Gas       | 2013        | 15     | Control Technology      | 2019       | 6      |          | 1000                 |                      |                     | 5                  | Fresno            |

## Description Ag UTV Replacement

| Project #  | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier                | New Eng Yr | New HP | New Tier | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|------------------|-----------|-------------|--------|-------------------------|------------|--------|----------|----------------------|----------------------|---------------------|--------------------|-------------------|
| G-77715-A1 | Ag UTV           | Gas       | 2002        | 20     | Uncontrolled Technology | 2019       | 30     |          | 50                   |                      |                     | 5                  | Kern              |
| G-77947-A1 | Ag UTV           | Gas       | 1999        | 14     | Uncontrolled Technology | 2019       | 6      |          | 200                  |                      |                     | 5                  | Madera            |
| G-78374-A1 | Ag UTV           | Gas       | 2012        | 19     | Control Technology      | 2020       | 7      |          | 650                  |                      |                     | 5                  | Tulare            |
| G-78375-A1 | Ag UTV           | Gas       | 2004        | 15     | Uncontrolled Technology | 2020       | 30     |          | 750                  |                      |                     | 5                  | Kern              |
| G-78401-A1 | Ag UTV           | Gas       | 2017        | 20     | Uncontrolled Technology | 2020       | 30     |          | 300                  |                      |                     | 5                  | Fresno            |
| G-78428-A1 | Ag UTV           | Gas       | 1985        | 14     | Uncontrolled Technology | 2020       | 30     |          | 500                  |                      |                     | 5                  | Fresno            |
| G-78878-A1 | Ag UTV           | Gas       | 2012        | 9      | Control Technology      | 2020       | 30     |          | 800                  |                      |                     | 5                  | Merced            |
| G-78883-A1 | Ag UTV           | Gas       | 2008        | 13     | Control Technology      | 2021       | 30     |          | 250                  |                      |                     | 5                  | Merced            |
| G-78900-A1 | Ag UTV           | Gas       | 2007        | 9      | Control Technology      | 2021       | 30     |          | 500                  |                      |                     | 5                  | Merced            |
| G-79024-A1 | Ag UTV           | Gas       | 1999        | 12     | Uncontrolled Technology | 2019       | 22     |          | 300                  |                      |                     | 5                  | Stanislaus        |
| G-79034-A1 | Ag UTV           | Gas       | 2002        | 17     | Uncontrolled Technology | 2021       | 6      |          | 300                  |                      |                     | 5                  | Fresno            |
| G-79117-A2 | Ag UTV           | Gas       | 2018        | 9      | Uncontrolled Technology | 2020       | 6      |          | 65                   |                      |                     | 5                  | Tulare            |
| G-79173-A1 | Ag UTV           | Gas       | 1986        | 23     | Uncontrolled Technology | 2019       | 6      |          | 400                  |                      |                     | 5                  | Fresno            |
| G-79500-A1 | Ag UTV           | Gas       | 1996        | 13     | Uncontrolled Technology | 2020       | 36     |          | 300                  |                      |                     | 5                  | Merced            |
| G-79501-A1 | Ag UTV           | Gas       | 2004        | 15     | Control Technology      | 2020       | 36     |          | 300                  |                      |                     | 5                  | Merced            |
| G-79502-A1 | Ag UTV           | Gas       | 1995        | 10     | Uncontrolled Technology | 2020       | 36     |          | 300                  |                      |                     | 5                  | Merced            |
| G-79525-A1 | Ag UTV           | Gas       | 1997        | 20     | Uncontrolled Technology | 2020       | 12     |          | 490                  |                      |                     | 5                  | Merced            |
| G-79610-A1 | Ag UTV           | Gas       | 1991        | 20     | Uncontrolled Technology | 2020       | 30     |          | 250                  |                      |                     | 5                  | Fresno            |
| G-79617-A1 | Ag UTV           | Gas       | 1982        | 20     | Uncontrolled Technology | 2021       | 72     |          | 200                  |                      |                     | 5                  | San Joaquin       |
| G-79640-A1 | Ag UTV           | Gas       | 1995        | 33     | Uncontrolled Technology | 2021       | 30     |          | 500                  |                      |                     | 5                  | San Joaquin       |
| G-79861-A1 | Ag UTV           | Gas       | 2001        | 32     | Uncontrolled Technology | 2020       | 23     |          | 1000                 |                      |                     | 5                  | Kern              |
| G-79906-A1 | Ag UTV           | Gas       | 2007        | 46     | Control Technology      | 2021       | 6      |          | 100                  |                      |                     | 5                  | Merced            |
| G-79907-A1 | Ag UTV           | Gas       | 2007        | 46     | Control Technology      | 2021       | 6      |          | 100                  |                      |                     | 5                  | Merced            |
| G-79928-A1 | Ag UTV           | Gas       | 2001        | 15     | Uncontrolled Technology | 2021       | 30     |          | 100                  |                      |                     | 5                  | Merced            |
| G-79978-A1 | Ag UTV           | Gas       | 1988        | 20     | Uncontrolled Technology | 2021       | 30     |          | 400                  |                      |                     | 5                  | Madera            |
| G-79980-A1 | Ag UTV           | Gas       | 2003        | 22     | Uncontrolled Technology | 2021       | 6      |          | 400                  |                      |                     | 5                  | Tulare            |
| G-79988-A1 | Ag UTV           | Gas       | 1991        | 9      | Uncontrolled Technology | 2020       | 38     |          | 250                  |                      |                     | 5                  | Stanislaus        |
| G-80013-A1 | Ag UTV           | Gas       | 1981        | 16     | Uncontrolled Technology | 2019       | 6      |          | 500                  |                      |                     | 5                  | Madera            |
| G-80023-A1 | Ag UTV           | Gas       | 2006        | 10     | Control Technology      | 2020       | 6      |          | 100                  |                      |                     | 5                  | Tulare            |
| G-80025-A1 | Ag UTV           | Gas       | 1988        | 20     | Uncontrolled Technology | 2021       | 30     |          | 33                   |                      |                     | 5                  | Fresno            |
| G-80031-A1 | Ag UTV           | Gas       | 2013        | 27     | Control Technology      | 2020       | 22     |          | 1040                 |                      |                     | 5                  | Stanislaus        |
| G-80037-A1 | Ag UTV           | Gas       | 2001        | 10     | Uncontrolled Technology | 2021       | 30     |          | 100                  |                      |                     | 5                  | Fresno            |
| G-80045-A1 | Ag UTV           | Gas       | 1986        | 17     | Uncontrolled Technology | 2019       | 6      |          | 250                  |                      |                     | 5                  | Fresno            |

## Description Ag UTV Replacement

| Project #  | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier                | New Eng Yr | New HP | New Tier | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|------------------|-----------|-------------|--------|-------------------------|------------|--------|----------|----------------------|----------------------|---------------------|--------------------|-------------------|
| G-80048-A1 | Ag UTV           | Gas       | 1988        | 19     | Uncontrolled Technology | 2019       | 6      |          | 500                  |                      |                     | 5                  | Fresno            |
| G-80049-A1 | Ag UTV           | Gas       | 2005        | 41     | Control Technology      | 2019       | 6      |          | 500                  |                      |                     | 5                  | Madera            |
| G-80090-A1 | Ag UTV           | Gas       | 1997        | 19     | Uncontrolled Technology | 2021       | 12     |          | 350                  |                      |                     | 5                  | Stanislaus        |
| G-80093-A1 | Ag UTV           | Gas       | 1997        | 12     | Uncontrolled Technology | 2020       | 22     |          | 400                  |                      |                     | 5                  | Merced            |
| G-80095-A1 | Ag UTV           | Gas       | 2013        | 27     | Control Technology      | 2019       | 22     |          | 200                  |                      |                     | 5                  | Stanislaus        |
| G-80115-A1 | Ag UTV           | Gas       | 2006        | 15     | Control Technology      | 2019       | 7      |          | 650                  |                      |                     | 5                  | Kern              |
| G-80144-A1 | Ag UTV           | Gas       | 2001        | 16     | Uncontrolled Technology | 2020       | 23     |          | 300                  |                      |                     | 5                  | Stanislaus        |
| G-80160-A1 | Ag UTV           | Gas       | 2007        | 20     | Control Technology      | 2020       | 30     |          | 900                  |                      |                     | 5                  | Kern              |
| G-80164-A1 | Ag UTV           | Gas       | 1984        | 16     | Uncontrolled Technology | 2021       | 30     |          | 200                  |                      |                     | 5                  | San Joaquin       |
| G-80165-A1 | Ag UTV           | Gas       | 2007        | 27     | Control Technology      | 2021       | 30     |          | 700                  |                      |                     | 5                  | San Joaquin       |
| G-80167-A1 | Ag UTV           | Gas       | 2006        | 16     | Control Technology      | 2020       | 6      |          | 200                  |                      |                     | 5                  | Fresno            |
| G-80170-A1 | Ag UTV           | Gas       | 2011        | 20     | Control Technology      | 2019       | 30     |          | 1000                 |                      |                     | 5                  | Fresno            |
| G-80171-A1 | Ag UTV           | Gas       | 2010        | 20     | Control Technology      | 2021       | 30     |          | 1000                 |                      |                     | 5                  | Fresno            |
| G-80172-A1 | Ag UTV           | Gas       | 2005        | 21     | Control Technology      | 2021       | 30     |          | 1000                 |                      |                     | 5                  | Fresno            |
| G-80187-A1 | Ag UTV           | Gas       | 1985        | 7      | Uncontrolled Technology | 2019       | 6      |          | 500                  |                      |                     | 5                  | Fresno            |
| G-80202-A1 | Ag UTV           | Gas       | 1974        | 6      | Uncontrolled Technology | 2021       | 6      |          | 250                  |                      |                     | 5                  | Fresno            |
| G-80204-A1 | Ag UTV           | Gas       | 2010        | 45     | Control Technology      | 2021       | 6      |          | 400                  |                      |                     | 5                  | Merced            |
| G-80342-A1 | Ag UTV           | Gas       | 1989        | 41     | Uncontrolled Technology | 2021       | 6      |          | 950                  |                      |                     | 5                  | Fresno            |
| G-80378-A1 | Ag UTV           | Gas       | 2001        | 22     | Uncontrolled Technology | 2021       | 6      |          | 600                  |                      |                     | 5                  | San Joaquin       |
| G-80387-A1 | Ag UTV           | Gas       | 2004        | 15     | Control Technology      | 2019       | 6      |          | 350                  |                      |                     | 5                  | Fresno            |
| G-80413-A1 | Ag UTV           | Gas       | 1981        | 13     | Uncontrolled Technology | 2021       | 6      |          | 200                  |                      |                     | 5                  | Fresno            |
| G-80414-A1 | Ag UTV           | Gas       | 2004        | 17     | Control Technology      | 2019       | 6      |          | 500                  |                      |                     | 5                  | Madera            |
| G-80475-A1 | Ag UTV           | Gas       | 1993        | 19     | Uncontrolled Technology | 2019       | 6      |          | 500                  |                      |                     | 5                  | Madera            |
| G-80480-A1 | Ag UTV           | Gas       | 2002        | 22     | Uncontrolled Technology | 2021       | 35     |          | 300                  |                      |                     | 5                  | Fresno            |
| G-80513-A1 | Ag UTV           | Gas       | 1995        | 27     | Uncontrolled Technology | 2020       | 36     |          | 500                  |                      |                     | 5                  | Stanislaus        |
| G-80517-A1 | Ag UTV           | Gas       | 1998        | 14     | Uncontrolled Technology | 2021       | 30     |          | 100                  |                      |                     | 5                  | Fresno            |
| G-80522-A1 | Ag UTV           | Gas       | 2003        | 17     | Uncontrolled Technology | 2019       | 4      |          | 500                  |                      |                     | 5                  | San Joaquin       |
| G-80608-A1 | Ag UTV           | Gas       | 2007        | 31     | Control Technology      | 2020       | 6      |          | 75                   |                      |                     | 5                  | Tulare            |
| G-80668-A1 | Ag UTV           | Gas       | 2008        | 26     | Control Technology      | 2019       | 6      |          | 500                  |                      |                     | 5                  | Kern              |
| G-80669-A1 | Ag UTV           | Gas       | 2012        | 15     | Control Technology      | 2019       | 6      |          | 500                  |                      |                     | 5                  | Kern              |
| G-80687-A1 | Ag UTV           | Gas       | 1980        | 8      | Uncontrolled Technology | 2020       | 30     |          | 500                  |                      |                     | 5                  | Stanislaus        |
| G-80722-A1 | Ag UTV           | Gas       | 1985        | 15     | Uncontrolled Technology | 2021       | 30     |          | 210                  |                      |                     | 5                  | Madera            |
| G-80723-A1 | Ag UTV           | Gas       | 2012        | 17     | Control Technology      | 2021       | 35     |          | 230                  |                      |                     | 5                  | Madera            |

## Description Ag UTV Replacement

| Project #  | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier                | New Eng Yr | New HP | New Tier | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|------------------|-----------|-------------|--------|-------------------------|------------|--------|----------|----------------------|----------------------|---------------------|--------------------|-------------------|
| G-80726-A1 | Ag UTV           | Gas       | 2006        | 30     | Control Technology      | 2021       | 35     |          | 215                  |                      |                     | 5                  | Madera            |
| G-80734-A1 | Ag UTV           | Gas       | 2005        | 10     | Control Technology      | 2021       | 30     |          | 1060                 |                      |                     | 5                  | San Joaquin       |
| G-80744-A1 | Ag UTV           | Gas       | 2011        | 7      | Control Technology      | 2019       | 6      |          | 400                  |                      |                     | 5                  | Fresno            |
| G-80748-A1 | Ag UTV           | Gas       | 2011        | 30     | Control Technology      | 2019       | 6      |          | 200                  |                      |                     | 5                  | Fresno            |
| G-80785-A1 | Ag UTV           | Gas       | 1989        | 9      | Uncontrolled Technology | 2020       | 6      |          | 250                  |                      |                     | 5                  | Tulare            |
| G-80960-A1 | Ag UTV           | Gas       | 2004        | 28     | Control Technology      | 2019       | 36     |          | 200                  |                      |                     | 5                  | Merced            |
| G-80972-A1 | Ag UTV           | Gas       | 1992        | 20     | Uncontrolled Technology | 2020       | 7      |          | 650                  |                      |                     | 5                  | Kern              |
| G-81009-A1 | Ag UTV           | Gas       | 2001        | 8      | Uncontrolled Technology | 2021       | 30     |          | 100                  |                      |                     | 5                  | San Joaquin       |
| G-81010-A1 | Ag UTV           | Gas       | 1982        | 8      | Uncontrolled Technology | 2021       | 35     |          | 100                  |                      |                     | 5                  | San Joaquin       |
| G-81053-A1 | Ag UTV           | Gas       | 2004        | 17     | Uncontrolled Technology | 2021       | 35     |          | 400                  |                      |                     | 5                  | Tulare            |
| G-81074-A1 | Ag UTV           | Diesel    | 1979        | 16     | Tier 0                  | 2019       | 6      |          | 300                  |                      |                     | 5                  | Merced            |
| G-81076-A1 | Ag UTV           | Diesel    | 1979        | 16     | Tier 0                  | 2019       | 6      |          | 300                  |                      |                     | 5                  | Merced            |
| G-81082-A1 | Ag UTV           | Gas       | 2000        | 17     | Uncontrolled Technology | 2021       | 35     |          | 120                  |                      |                     | 5                  | Fresno            |
| G-81083-A1 | Ag UTV           | Gas       | 2002        | 13     | Uncontrolled Technology | 2021       | 35     |          | 1500                 |                      |                     | 5                  | Stanislaus        |
| G-81120-A1 | Ag UTV           | Gas       | 1992        | 10     | Uncontrolled Technology | 2020       | 40     |          | 700                  |                      |                     | 5                  | Kern              |
| G-81251-A1 | Ag UTV           | Gas       | 2001        | 27     | Uncontrolled Technology | 2020       | 36     |          | 3600                 |                      |                     | 5                  | Stanislaus        |
| G-81253-A1 | Ag UTV           | Gas       | 2006        | 42     | Control Technology      | 2020       | 36     |          | 450                  |                      |                     | 5                  | San Joaquin       |
| G-81288-A1 | Ag UTV           | Diesel    | 2009        | 22     | Tier 4 Interim          | 2019       | 30     |          | 1000                 |                      |                     | 5                  | Fresno            |
| G-81398-A1 | Ag UTV           | Gas       | 2001        | 22     | Uncontrolled Technology | 2021       | 22     |          | 500                  |                      |                     | 5                  | San Joaquin       |
| G-81399-A1 | Ag UTV           | Gas       | 2005        | 23     | Control Technology      | 2021       | 35     |          | 700                  |                      |                     | 5                  | Stanislaus        |
| G-81496-A1 | Ag UTV           | Gas       | 1981        | 13     | Uncontrolled Technology | 2021       | 30     |          | 2000                 |                      |                     | 5                  | Fresno            |
| G-81567-A1 | Ag UTV           | Gas       | 1998        | 40     | Uncontrolled Technology | 2020       | 38     |          | 300                  |                      |                     | 5                  | San Joaquin       |
| G-81570-A1 | Ag UTV           | Gas       | 2012        | 41     | Uncontrolled Technology | 2021       | 35     |          | 1460                 |                      |                     | 5                  | Fresno            |
| G-81621-A1 | Ag UTV           | Gas       | 1986        | 5      | Uncontrolled Technology | 2021       | 35     |          | 60                   |                      |                     | 5                  | San Joaquin       |
| G-81631-A1 | Ag UTV           | Gas       | 2003        | 33     | Uncontrolled Technology | 2021       | 35     |          | 200                  |                      |                     | 5                  | Merced            |
| G-81633-A1 | Ag UTV           | Gas       | 2001        | 22     | Uncontrolled Technology | 2021       | 30     |          | 400                  |                      |                     | 5                  | San Joaquin       |
| G-81636-A1 | Ag UTV           | Gas       | 2004        | 19     | Control Technology      | 2021       | 35     |          | 600                  |                      |                     | 5                  | San Joaquin       |
| G-81642-A1 | Ag UTV           | Gas       | 2005        | 18     | Control Technology      | 2021       | 6      |          | 1500                 |                      |                     | 5                  | Kern              |
| G-81744-A1 | Ag UTV           | Gas       | 2008        | 34     | Control Technology      | 2021       | 35     |          | 900                  |                      |                     | 5                  | Stanislaus        |
| G-81847-A1 | Ag UTV           | Gas       | 1998        | 14     | Uncontrolled Technology | 2021       | 35     |          | 100                  |                      |                     | 5                  | Tulare            |
| G-81868-A1 | Ag UTV           | Gas       | 2003        | 15     | Uncontrolled Technology | 2019       | 4      |          | 200                  |                      |                     | 5                  | Tulare            |
| G-81959-A1 | Ag UTV           | Gas       | 2002        | 40     | Uncontrolled Technology | 2020       | 6      |          | 200                  |                      |                     | 5                  | Stanislaus        |
| G-81968-A1 | Ag UTV           | Gas       | 2006        | 10     | Control Technology      | 2019       | 6      |          | 500                  |                      |                     | 5                  | Madera            |

## Description Ag UTV Replacement

| Project #  | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier                | New Eng Yr | New HP | New Tier | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|------------------|-----------|-------------|--------|-------------------------|------------|--------|----------|----------------------|----------------------|---------------------|--------------------|-------------------|
| G-82000-A1 | Ag UTV           | Gas       | 1988        | 10     | Uncontrolled Technology | 2020       | 6      |          | 100                  |                      |                     | 5                  | Fresno            |
| G-82005-A1 | Ag UTV           | Gas       | 1986        | 14     | Uncontrolled Technology | 2021       | 35     |          | 500                  |                      |                     | 5                  | Stanislaus        |
| G-82010-A1 | Ag UTV           | Gas       | 2005        | 60     | Control Technology      | 2021       | 35     |          | 500                  |                      |                     | 5                  | Stanislaus        |
| G-82036-A1 | Ag UTV           | Gas       | 2002        | 10     | Uncontrolled Technology | 2021       | 35     |          | 100                  |                      |                     | 5                  | Fresno            |
| G-82039-A1 | Ag UTV           | Gas       | 2015        | 8      | Control Technology      | 2021       | 35     |          | 300                  |                      |                     | 5                  | San Joaquin       |
| G-82131-A1 | Ag UTV           | Gas       | 2003        | 22     | Uncontrolled Technology | 2021       | 35     |          | 50                   |                      |                     | 5                  | Stanislaus        |
| G-82166-A1 | Ag UTV           | Gas       | 1986        | 17     | Uncontrolled Technology | 2021       | 35     |          | 150                  |                      |                     | 5                  | San Joaquin       |
| G-82173-A1 | Ag UTV           | Gas       | 2012        | 17     | Control Technology      | 2021       | 35     |          | 250                  |                      |                     | 5                  | Fresno            |
| G-82179-A1 | Ag UTV           | Gas       | 2002        | 20     | Uncontrolled Technology | 2021       | 30     |          | 300                  |                      |                     | 5                  | Stanislaus        |
| G-82183-A1 | Ag UTV           | Gas       | 2009        | 11     | Control Technology      | 2021       | 35     |          | 500                  |                      |                     | 5                  | San Joaquin       |
| G-82263-A1 | Ag UTV           | Gas       | 1986        | 13     | Uncontrolled Technology | 2021       | 30     |          | 250                  |                      |                     | 5                  | Stanislaus        |
| G-82295-A1 | Ag UTV           | Gas       | 1991        | 19     | Uncontrolled Technology | 2021       | 35     |          | 25                   |                      |                     | 5                  | Fresno            |
| G-82394-A1 | Ag UTV           | Gas       | 1997        | 20     | Uncontrolled Technology | 2021       | 35     |          | 550                  |                      |                     | 5                  | Fresno            |
| G-82395-A1 | Ag UTV           | Gas       | 1990        | 20     | Uncontrolled Technology | 2021       | 30     |          | 640                  |                      |                     | 5                  | Fresno            |
| G-82396-A1 | Ag UTV           | Gas       | 1987        | 15     | Uncontrolled Technology | 2020       | 6      |          | 580                  |                      |                     | 5                  | Fresno            |
| G-82564-A1 | Ag UTV           | Gas       | 1998        | 19     | Uncontrolled Technology | 2020       | 6      |          | 5703                 |                      |                     | 5                  | San Joaquin       |
| G-82618-A1 | Ag UTV           | Gas       | 1985        | 13     | Uncontrolled Technology | 2021       | 35     |          | 70                   |                      |                     | 5                  | Fresno            |
| G-82632-A1 | Ag UTV           | Gas       | 2016        | 16     | Control Technology      | 2019       | 6      |          | 1000                 |                      |                     | 5                  | Kern              |
| G-82633-A1 | Ag UTV           | Gas       | 2016        | 15     | Control Technology      | 2019       | 6      |          | 690                  |                      |                     | 5                  | Kern              |
| G-82637-A1 | Ag UTV           | Gas       | 2008        | 16     | Control Technology      | 2019       | 6      |          | 595                  |                      |                     | 5                  | Kern              |
| G-82641-A1 | Ag UTV           | Gas       | 2008        | 26     | Control Technology      | 2019       | 6      |          | 725                  |                      |                     | 5                  | Kern              |
| G-82665-A1 | Ag UTV           | Gas       | 2005        | 44     | Control Technology      | 2019       | 6      |          | 300                  |                      |                     | 5                  | Merced            |
| G-82666-A1 | Ag UTV           | Gas       | 2004        | 27     | Control Technology      | 2019       | 6      |          | 300                  |                      |                     | 5                  | Merced            |
| G-82670-A1 | Ag UTV           | Gas       | 2010        | 12     | Control Technology      | 2019       | 6      |          | 8100                 |                      |                     | 5                  | Fresno            |
| G-82671-A1 | Ag UTV           | Gas       | 2010        | 12     | Control Technology      | 2019       | 6      |          | 8100                 |                      |                     | 5                  | Fresno            |
| G-82686-A1 | Ag UTV           | Gas       | 2010        | 12     | Control Technology      | 2019       | 6      |          | 8100                 |                      |                     | 5                  | Fresno            |
| G-82687-A1 | Ag UTV           | Gas       | 2010        | 12     | Control Technology      | 2019       | 6      |          | 8100                 |                      |                     | 5                  | Fresno            |
| G-82688-A1 | Ag UTV           | Gas       | 2010        | 12     | Control Technology      | 2019       | 6      |          | 8100                 |                      |                     | 5                  | Fresno            |
| G-82689-A1 | Ag UTV           | Gas       | 2010        | 12     | Control Technology      | 2019       | 6      |          | 8100                 |                      |                     | 5                  | Fresno            |
| G-82691-A1 | Ag UTV           | Gas       | 2010        | 12     | Control Technology      | 2019       | 6      |          | 8100                 |                      |                     | 5                  | Fresno            |
| G-82692-A1 | Ag UTV           | Gas       | 2010        | 12     | Control Technology      | 2019       | 6      |          | 8100                 |                      |                     | 5                  | Fresno            |
| G-82693-A1 | Ag UTV           | Gas       | 2005        | 17     | Control Technology      | 2021       | 35     |          | 60                   |                      |                     | 5                  | Stanislaus        |
| G-82694-A1 | Ag UTV           | Gas       | 1995        | 20     | Uncontrolled Technology | 2021       | 30     |          | 400                  |                      |                     | 5                  | Fresno            |

## Description Ag UTV Replacement

| Project #  | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier                | New Eng Yr | New HP | New Tier | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|------------|------------------|-----------|-------------|--------|-------------------------|------------|--------|----------|----------------------|----------------------|---------------------|--------------------|-------------------|
| G-82814-A1 | Ag UTV           | Diesel    | 2006        | 22     | Tier 2                  | 2021       | 35     |          | 630                  |                      |                     | 5                  | Tulare            |
| G-82868-A1 | Ag UTV           | Gas       | 2000        | 22     | Uncontrolled Technology | 2021       | 35     |          | 1600                 |                      |                     | 5                  | Stanislaus        |
| G-82869-A1 | Ag UTV           | Gas       | 2004        | 25     | Control Technology      | 2021       | 35     |          | 1800                 |                      |                     | 5                  | Stanislaus        |
| G-82918-A1 | Ag UTV           | Gas       | 1995        | 19     | Uncontrolled Technology | 2021       | 35     |          | 100                  |                      |                     | 5                  | San Joaquin       |
| G-82919-A1 | Ag UTV           | Gas       | 2002        | 18     | Uncontrolled Technology | 2021       | 30     |          | 300                  |                      |                     | 5                  | Madera            |
| G-82923-A1 | Ag UTV           | Gas       | 2002        | 15     | Uncontrolled Technology | 2020       | 10     |          | 400                  |                      |                     | 5                  | San Joaquin       |
| G-82924-A1 | Ag UTV           | Gas       | 1989        | 20     | Uncontrolled Technology | 2020       | 10     |          | 400                  |                      |                     | 5                  | San Joaquin       |
| G-83034-A1 | Ag UTV           | Gas       | 1986        | 16     | Uncontrolled Technology | 2020       | 36     |          | 300                  |                      |                     | 5                  | San Joaquin       |
| G-83079-A1 | Ag UTV           | Gas       | 1985        | 15     | Uncontrolled Technology | 2021       | 30     |          | 150                  |                      |                     | 5                  | Merced            |
| G-83195-A1 | Ag UTV           | Gas       | 1999        | 33     | Uncontrolled Technology | 2021       | 30     |          | 780                  |                      |                     | 5                  | Madera            |
| G-83224-A1 | Ag UTV           | Gas       | 1998        | 10     | Uncontrolled Technology | 2020       | 6      |          | 200                  |                      |                     | 5                  | Fresno            |
| G-83237-A1 | Ag UTV           | Gas       | 2005        | 13     | Control Technology      | 2021       | 35     |          | 750                  |                      |                     | 5                  | Merced            |
| G-83283-A1 | Ag UTV           | Gas       | 2006        | 23     | Control Technology      | 2021       | 30     |          | 30                   |                      |                     | 5                  | Tulare            |
| G-83496-A1 | Ag UTV           | Gas       | 2007        | 12     | Control Technology      | 2021       | 35     |          | 100                  |                      |                     | 5                  | Stanislaus        |
| G-83633-A1 | Ag UTV           | Gas       | 2005        | 16     | Control Technology      | 2021       | 30     |          | 100                  |                      |                     | 5                  | San Joaquin       |
| G-83743-A1 | Ag UTV           | Gas       | 1995        | 9      | Uncontrolled Technology | 2021       | 35     |          | 800                  |                      |                     | 5                  | Kings             |
| G-83830-A1 | Ag UTV           | Gas       | 2007        | 10     | Control Technology      | 2020       | 6      |          | 450                  |                      |                     | 5                  | San Joaquin       |
| G-83912-A1 | Ag UTV           | Gas       | 1982        | 13     | Uncontrolled Technology | 2021       | 13     |          | 500                  |                      |                     | 5                  | Tulare            |
| G-98027-A1 | Ag UTV           | Gas       | 2006        | 33     | Control Technology      | 2021       | 35     |          | 1000                 |                      |                     | 5                  | Fresno            |
| G-98070-A1 | Ag UTV           | Gas       | 1995        | 20     | Uncontrolled Technology | 2021       | 35     |          | 20                   |                      |                     | 5                  | Kern              |
| G-98075-A1 | Ag UTV           | Gas       | 2002        | 15     | Uncontrolled Technology | 2021       | 35     |          | 200                  |                      |                     | 5                  | Stanislaus        |
| G-98135-A1 | Ag UTV           | Gas       | 1984        | 15     | Uncontrolled Technology | 2019       | 6      |          | 100                  |                      |                     | 5                  | San Joaquin       |
| G-98144-A1 | Ag UTV           | Gas       | 2002        | 41     | Uncontrolled Technology | 2021       | 35     |          | 600                  |                      |                     | 5                  | Merced            |
| G-98178-A1 | Ag UTV           | Gas       | 1999        | 19     | Uncontrolled Technology | 2021       | 35     |          | 80                   |                      |                     | 5                  | Tulare            |
| G-98239-A1 | Ag UTV           | Gas       | 2004        | 15     | Control Technology      | 2021       | 35     |          | 175                  |                      |                     | 5                  | Fresno            |
| G-98258-A1 | Ag UTV           | Gas       | 1990        | 14     | Uncontrolled Technology | 2021       | 30     |          | 300                  |                      |                     | 5                  | Fresno            |
| G-98372-A1 | Ag UTV           | Gas       | 2007        | 16     | Control Technology      | 2021       | 30     |          | 1500                 |                      |                     | 5                  | Fresno            |
| G-98406-A1 | Ag UTV           | Gas       | 1998        | 29     | Uncontrolled Technology | 2021       | 35     |          | 950                  |                      |                     | 5                  | Fresno            |
| G-99323-A1 | Ag UTV           | Gas       | 2005        | 33     | Control Technology      | 2021       | 35     |          | 100                  |                      |                     | 5                  | Fresno            |
| G-99774-A1 | Ag UTV           | Gas       | 1989        | 19     | Uncontrolled Technology | 2020       | 30     |          | 300                  |                      |                     | 5                  | Stanislaus        |

This page intentionally blank.



**Appendix B**  
**NRCS Combustion System Improvement Program Project Information**

## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline |        |          | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                  |           | Yr       | Old HP | Old Tier |            |        |              |                      |                      |                     |                    |                   |
| 3368      | Tractor          | Diesel    | 1964     | 57     | Non-Tier | 2016       | 53     | Tier 4 Final | 300                  |                      |                     | 10                 | San Joaquin       |
| 3369      | Tractor          | Diesel    | 1969     | 107    | Non-Tier | 2018       | 115    | Tier 4 Final | 500                  |                      |                     | 10                 | Madera            |
| 3370      | Tractor          | Diesel    | 1969     | 76     | Non-Tier | 2018       | 75     | Tier 4 Final | 800                  |                      |                     | 10                 | Madera            |
| 3371      | Tractor          | Diesel    | 1984     | 45     | Non-Tier | 2019       | 49     | Tier 4 Final | 800                  |                      |                     | 10                 | Madera            |
| 3372      | Tractor          | Diesel    | 1979     | 98     | Non-Tier | 2019       | 114    | Tier 4 Final | 800                  |                      |                     | 10                 | Madera            |
| 3373      | Tractor          | Diesel    | 2007     | 98     | Tier 2   | 2019       | 115    | Tier 4 Final | 800                  |                      |                     | 10                 | Madera            |
| 3374      | Tractor          | Diesel    | 1981     | 69     | Non-Tier | 2018       | 70     | Tier 4 Final | 250                  |                      |                     | 10                 | Madera            |
| 3375      | Tractor          | Diesel    | 1989     | 60     | Non-Tier | 2018       | 75     | Tier 4 Final | 900                  |                      |                     | 10                 | Madera            |
| 3376      | Shaker           | Diesel    | 2007     | 125    | Tier 1   | 2019       | 174    | Tier 4 Final | 720                  |                      |                     | 10                 | Madera            |
| 3377      | Tractor          | Diesel    | 1995     | 120    | Non-Tier | 2019       | 125    | Tier 4 Final | 550                  |                      |                     | 10                 | Madera            |
| 3378      | Tractor          | Diesel    | 1986     | 31     | Non-Tier | 2017       | 39     | Tier 4 Final | 500                  |                      |                     | 10                 | Madera            |
| 3379      | Tractor          | Diesel    | 1999     | 100    | Tier 1   | 2019       | 115    | Tier 4 Final | 700                  |                      |                     | 10                 | Madera            |
| 3380      | Tractor          | Diesel    | 1975     | 67     | Non-Tier | 2019       | 65     | Tier 4 Final | 1,200                |                      |                     | 10                 | Madera            |
| 3381      | Tractor          | Diesel    | 1988     | 97     | Non-Tier | 2019       | 120    | Tier 4 Final | 1,200                |                      |                     | 10                 | Madera            |
| 3382      | Tractor          | Diesel    | 1967     | 54     | Non-Tier | 2019       | 32     | Tier 4 Final | 400                  |                      |                     | 10                 | Madera            |
| 3383      | Tractor          | Diesel    | 2003     | 60     | Tier 1   | 2019       | 50     | Tier 4 Final | 900                  |                      |                     | 10                 | Madera            |
| 3384      | Tractor          | Diesel    | 2003     | 60     | Tier 1   | 2019       | 75     | Tier 4 Final | 800                  |                      |                     | 10                 | Madera            |
| 3385      | Tractor          | Diesel    | 1979     | 133    | Non-Tier | 2019       | 125    | Tier 4 Final | 300                  |                      |                     | 10                 | Madera            |
| 3386      | Loader           | Diesel    | 1975     | 48     | Non-Tier | 2019       | 48     | Tier 4 Final | 400                  |                      |                     | 10                 | Madera            |
| 3387      | Tractor          | Diesel    | 1985     | 96     | Non-Tier | 2019       | 106    | Tier 4 Final | 740                  |                      |                     | 10                 | Madera            |
| 3388      | Tractor          | Diesel    | 1991     | 94     | Non-Tier | 2018       | 115    | Tier 4 Final | 500                  |                      |                     | 10                 | Madera            |
| 3389      | Tractor          | Diesel    | 1968     | 121    | Non-Tier | 2017       | 117    | Tier 4 Final | 550                  |                      |                     | 10                 | Madera            |
| 3390      | Tractor          | Diesel    | 1971     | 90     | Non-Tier | 2019       | 115    | Tier 4 Final | 80                   |                      |                     | 10                 | Madera            |
| 3391      | Tractor          | Diesel    | 2001     | 92     | Tier 1   | 2016       | 99     | Tier 4 Final | 520                  |                      |                     | 10                 | Madera            |
| 3392      | Tractor          | Diesel    | 1997     | 95     | Non-Tier | 2018       | 117    | Tier 4 Final | 1,100                |                      |                     | 10                 | Madera            |
| 3393      | Tractor          | Diesel    | 1984     | 75     | Non-Tier | 2019       | 87     | Tier 4 Final | 640                  |                      |                     | 10                 | Madera            |
| 3394      | Tractor          | Diesel    | 1984     | 82     | Non-Tier | 2015       | 92     | Tier 4 Final | 400                  |                      |                     | 10                 | Madera            |
| 3395      | Tractor          | Diesel    | 1978     | 157    | Non-Tier | 2019       | 115    | Tier 4 Final | 150                  |                      |                     | 10                 | Madera            |
| 3396      | Tractor          | Diesel    | 1970     | 131    | Non-Tier | 2020       | 115    | Tier 4 Final | 250                  |                      |                     | 10                 | Madera            |
| 3397      | Tractor          | Diesel    | 1976     | 145    | Non-Tier | 2020       | 115    | Tier 4 Final | 250                  |                      |                     | 10                 | Madera            |
| 3398      | Tractor          | Diesel    | 1965     | 56     | Non-Tier | 2019       | 75     | Tier 4 Final | 400                  |                      |                     | 10                 | San Joaquin       |
| 3399      | Tractor          | Diesel    | 1976     | 217    | Non-Tier | 2019       | 250    | Tier 4 Final | 400                  |                      |                     | 10                 | San Joaquin       |
| 3400      | Tractor          | Diesel    | 1978     | 109    | Non-Tier | 2018       | 109    | Tier 4 Final | 120                  |                      |                     | 10                 | San Joaquin       |

## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline |        | Old Tier | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                  |           | Yr       | Old HP |          |            |        |              |                      |                      |                     |                    |                   |
| 3401      | Tractor          | Diesel    | 1993     | 96     | Non-Tier | 2017       | 120    | Tier 4 Final | 1,200                |                      |                     | 10                 | San Joaquin       |
| 3402      | Tractor          | Diesel    | 1953     | 39     | Non-Tier | 2019       | 37     | Tier 4 Final | 250                  |                      |                     | 10                 | San Joaquin       |
| 3403      | Tractor          | Diesel    | 1978     | 96     | Non-Tier | 2018       | 107    | Tier 4 Final | 250                  |                      |                     | 10                 | San Joaquin       |
| 3404      | Tractor          | Diesel    | 1980     | 75     | Non-Tier | 2019       | 74     | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3405      | Tractor          | Diesel    | 1976     | 109    | Non-Tier | 2019       | 125    | Tier 4 Final | 750                  |                      |                     | 10                 | San Joaquin       |
| 3406      | Tractor          | Diesel    | 1959     | 225    | Non-Tier | 2018       | 270    | Tier 4 Final | 2,000                |                      |                     | 10                 | San Joaquin       |
| 3407      | Tractor          | Diesel    | 1998     | 310    | Tier 1   | 2020       | 370    | Tier 4 Final | 400                  |                      |                     | 10                 | San Joaquin       |
| 3408      | Tractor          | Diesel    | 1986     | 88     | Non-Tier | 2019       | 105    | Tier 4 Final | 88                   |                      |                     | 10                 | San Joaquin       |
| 3409      | Tractor          | Diesel    | 1983     | 80     | Non-Tier | 2018       | 47     | Tier 4 Final | 40                   |                      |                     | 10                 | San Joaquin       |
| 3410      | Tractor          | Diesel    | 1978     | 80     | Non-Tier | 2019       | 100    | Tier 4 Final | 350                  |                      |                     | 10                 | San Joaquin       |
| 3411      | Tractor          | Diesel    | 1971     | 174    | Non-Tier | 2018       | 175    | Tier 4 Final | 145                  |                      |                     | 10                 | San Joaquin       |
| 3412      | Tractor          | Diesel    | 1977     | 84     | Non-Tier | 2019       | 100    | Tier 4 Final | 200                  |                      |                     | 10                 | San Joaquin       |
| 3413      | Backhoe Loader   | Diesel    | 1980     | 58     | Non-Tier | 2019       | 63     | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3414      | Tractor          | Diesel    | 1962     | 55     | Non-Tier | 2019       | 50     | Tier 4 Final | 300                  |                      |                     | 10                 | San Joaquin       |
| 3415      | Tractor          | Diesel    | 1959     | 61     | Non-Tier | 2019       | 74     | Tier 4 Final | 510                  |                      |                     | 10                 | San Joaquin       |
| 3416      | Tractor          | Diesel    | 1976     | 187    | Non-Tier | 2019       | 114    | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3417      | Backhoe Loader   | Diesel    | 1976     | 50     | Non-Tier | 2019       | 63     | Tier 4 Final | 475                  |                      |                     | 10                 | San Joaquin       |
| 3418      | Tractor          | Diesel    | 1975     | 90     | Non-Tier | 2019       | 105    | Tier 4 Final | 480                  |                      |                     | 10                 | San Joaquin       |
| 3419      | Tractor          | Diesel    | 1986     | 80     | Non-Tier | 2020       | 100    | Tier 4 Final | 450                  |                      |                     | 10                 | San Joaquin       |
| 3420      | Tractor          | Diesel    | 1986     | 58     | Non-Tier | 2020       | 73     | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3421      | Tractor          | Diesel    | 1970     | 58     | Non-Tier | 2020       | 66     | Tier 4 Final | 300                  |                      |                     | 10                 | San Joaquin       |
| 3422      | Tractor          | Diesel    | 1978     | 79     | Non-Tier | 2019       | 95     | Tier 4 Final | 575                  |                      |                     | 10                 | San Joaquin       |
| 3423      | Tractor          | Diesel    | 1982     | 126    | Non-Tier | 2019       | 117    | Tier 4 Final | 250                  |                      |                     | 10                 | San Joaquin       |
| 3424      | Sweeper          | Diesel    | 1997     | 78     | Non-Tier | 2018       | 74     | Tier 4 Final | 215                  |                      |                     | 10                 | San Joaquin       |
| 3425      | Tractor          | Diesel    | 1967     | 84     | Non-Tier | 2019       | 106    | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3426      | Tractor          | Diesel    | 2004     | 110    | Tier 2   | 2019       | 114    | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3427      | Tractor          | Diesel    | 1988     | 81     | Non-Tier | 2018       | 74     | Tier 4 Final | 140                  |                      |                     | 10                 | San Joaquin       |
| 3428      | Tractor          | Diesel    | 1968     | 139    | Non-Tier | 2018       | 100    | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3429      | Tractor          | Diesel    | 1979     | 80     | Non-Tier | 2019       | 100    | Tier 4 Final | 80                   |                      |                     | 10                 | San Joaquin       |
| 3430      | Tractor          | Diesel    | 1957     | 62     | Non-Tier | 2019       | 75     | Tier 4 Final | 375                  |                      |                     | 10                 | San Joaquin       |
| 3431      | Tractor          | Diesel    | 1999     | 210    | Tier 1   | 2017       | 260    | Tier 4 Final | 925                  |                      |                     | 10                 | San Joaquin       |
| 3432      | Tractor          | Diesel    | 1980     | 48     | Non-Tier | 2019       | 56     | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3433      | Tractor          | Diesel    | 1974     | 68     | Non-Tier | 2019       | 75     | Tier 4 Final | 350                  |                      |                     | 10                 | San Joaquin       |

## Description Vehicle Replacement

| Project # | Primary Function  | Fuel Type | Baseline Yr | Old HP | Old Tier | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|-------------------|-----------|-------------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
| 3434      | Tractor           | Diesel    | 1971        | 65     | Non-Tier | 2019       | 74     | Tier 4 Final | 245                  |                      |                     | 10                 | San Joaquin       |
| 3435      | Tractor           | Diesel    | 1992        | 310    | Non-Tier | 2015       | 402    | Tier 4 Final | 1,300                |                      |                     | 10                 | San Joaquin       |
| 3436      | Tractor           | Diesel    | 1977        | 132    | Non-Tier | 2020       | 115    | Tier 4 Final | 150                  |                      |                     | 10                 | Madera            |
| 3437      | Skid Steer Loader | Diesel    | 2005        | 81     | Tier 2   | 2019       | 92     | Tier 4 Final | 380                  |                      |                     | 10                 | San Joaquin       |
| 3438      | Tractor           | Diesel    | 2003        | 92     | Tier 1   | 2019       | 115    | Tier 4 Final | 350                  |                      |                     | 10                 | San Joaquin       |
| 3439      | Tractor           | Diesel    | 1974        | 67     | Non-Tier | 2020       | 75     | Tier 4 Final | 200                  |                      |                     | 10                 | San Joaquin       |
| 3440      | Tractor           | Diesel    | 1975        | 164    | Non-Tier | 2019       | 115    | Tier 4 Final | 1,000                |                      |                     | 10                 | San Joaquin       |
| 3441      | Tractor           | Diesel    | 1976        | 103    | Non-Tier | 2020       | 115    | Tier 4 Final | 1,200                |                      |                     | 10                 | San Joaquin       |
| 3442      | Tractor           | Diesel    | 1971        | 58     | Non-Tier | 2020       | 73     | Tier 4 Final | 200                  |                      |                     | 10                 | San Joaquin       |
| 3443      | Tractor           | Diesel    | 1977        | 126    | Non-Tier | 2019       | 105    | Tier 4 Final | 575                  |                      |                     | 10                 | San Joaquin       |
| 3444      | Tractor           | Diesel    | 2000        | 45     | Tier 1   | 2019       | 53     | Tier 4 Final | 257                  |                      |                     | 10                 | San Joaquin       |
| 3445      | Tractor           | Diesel    | 1968        | 168    | Non-Tier | 2020       | 155    | Tier 4 Final | 500                  |                      |                     | 10                 | Tulare            |
| 3446      | Tractor           | Diesel    | 1989        | 60     | Non-Tier | 2018       | 74     | Tier 4 Final | 300                  |                      |                     | 10                 | Tulare            |
| 3447      | Tractor           | Diesel    | 1984        | 67     | Non-Tier | 2019       | 75     | Tier 4 Final | 450                  |                      |                     | 10                 | Tulare            |
| 3448      | Tractor           | Diesel    | 1981        | 154    | Non-Tier | 2017       | 125    | Tier 4 Final | 400                  |                      |                     | 10                 | Tulare            |
| 3449      | Tractor           | Diesel    | 1980        | 31     | Non-Tier | 2019       | 32     | Tier 4 Final | 1,000                |                      |                     | 10                 | Tulare            |
| 3450      | Tractor           | Diesel    | 1983        | 26     | Non-Tier | 2018       | 25     | Tier 4 Final | 1,000                |                      |                     | 10                 | Tulare            |
| 3451      | Tractor           | Diesel    | 1963        | 45     | Non-Tier | 2019       | 55     | Tier 4 Final | 1,000                |                      |                     | 10                 | Tulare            |
| 3452      | Tractor           | Diesel    | 1976        | 124    | Non-Tier | 2019       | 115    | Tier 4 Final | 500                  |                      |                     | 10                 | Tulare            |
| 3453      | Tractor           | Diesel    | 1965        | 63     | Non-Tier | 2019       | 74     | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| 3454      | Tractor           | Diesel    | 1987        | 86     | Non-Tier | 2019       | 106    | Tier 4 Final | 500                  |                      |                     | 10                 | Tulare            |
| 3455      | Tractor           | Diesel    | 1992        | 102    | Non-Tier | 2018       | 115    | Tier 4 Final | 500                  |                      |                     | 10                 | Tulare            |
| 3456      | Tractor           | Diesel    | 1984        | 63     | Non-Tier | 2019       | 73     | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| 3457      | Tractor           | Diesel    | 1996        | 78     | Non-Tier | 2019       | 95     | Tier 4 Final | 450                  |                      |                     | 10                 | Tulare            |
| 3458      | Tractor           | Diesel    | 1976        | 80     | Non-Tier | 2018       | 100    | Tier 4 Final | 500                  |                      |                     | 10                 | Tulare            |
| 3459      | Tractor           | Diesel    | 1980        | 45     | Non-Tier | 2019       | 55     | Tier 4 Final | 400                  |                      |                     | 10                 | Tulare            |
| 3460      | Tractor           | Diesel    | 1979        | 84     | Non-Tier | 2016       | 86     | Tier 4 Final | 400                  |                      |                     | 10                 | Tulare            |
| 3461      | Tractor           | Diesel    | 1996        | 91     | Non-Tier | 2017       | 100    | Tier 4 Final | 700                  |                      |                     | 10                 | Tulare            |
| 3462      | Tractor           | Diesel    | 1988        | 97     | Non-Tier | 2019       | 115    | Tier 4 Final | 200                  |                      |                     | 10                 | Tulare            |
| 3463      | Tractor           | Diesel    | 1983        | 26     | Non-Tier | 2019       | 31     | Tier 4 Final | 1,000                |                      |                     | 10                 | Tulare            |
| 3464      | Tractor           | Diesel    | 1987        | 96     | Non-Tier | 2019       | 100    | Tier 4 Final | 1,000                |                      |                     | 10                 | Tulare            |
| 3465      | Tractor           | Diesel    | 1986        | 29     | Non-Tier | 2019       | 32     | Tier 4 Final | 1,000                |                      |                     | 10                 | Tulare            |
| 3466      | Tractor           | Diesel    | 2006        | 115    | Tier 2   | 2019       | 125    | Tier 4 Final | 800                  |                      |                     | 10                 | Tulare            |

## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline |        | Old Tier | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                  |           | Yr       | Old HP |          |            |        |              |                      |                      |                     |                    |                   |
| 3467      | Tractor          | Diesel    | 1981     | 63     | Non-Tier | 2018       | 70     | Tier 4 Final | 250                  |                      |                     | 10                 | Tulare            |
| 3468      | Tractor          | Diesel    | 1994     | 245    | Non-Tier | 2019       | 295    | Tier 4 Final | 800                  |                      |                     | 10                 | Tulare            |
| 3469      | Tractor          | Diesel    | 1978     | 31     | Non-Tier | 2019       | 32     | Tier 4 Final | 250                  |                      |                     | 10                 | Tulare            |
| 3470      | Tractor          | Diesel    | 1980     | 37     | Non-Tier | 2019       | 32     | Tier 4 Final | 250                  |                      |                     | 10                 | Tulare            |
| 3471      | Tractor          | Diesel    | 1946     | 68     | Non-Tier | 2019       | 32     | Tier 4 Final | 250                  |                      |                     | 10                 | Tulare            |
| 3472      | Tractor          | Diesel    | 1996     | 97     | Non-Tier | 2019       | 120    | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| 3473      | Tractor          | Diesel    | 1960     | 72     | Non-Tier | 2020       | 90     | Tier 4 Final | 180                  |                      |                     | 10                 | Tulare            |
| 3474      | Sweeper          | Diesel    | 2003     | 130    | Tier 2   | 2019       | 174    | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| 3475      | Tractor          | Diesel    | 1997     | 140    | Tier 1   | 2017       | 155    | Tier 4 Final | 1,200                |                      |                     | 10                 | Tulare            |
| 3476      | Tractor          | Diesel    | 1976     | 146    | Non-Tier | 2019       | 132    | Tier 4 Final | 1,000                |                      |                     | 10                 | Tulare            |
| 3477      | Tractor          | Diesel    | 1986     | 93     | Non-Tier | 2019       | 74     | Tier 4 Final | 1,000                |                      |                     | 10                 | Tulare            |
| 3478      | Tractor          | Diesel    | 2007     | 92     | Tier 2   | 2018       | 108    | Tier 4 Final | 500                  |                      |                     | 10                 | Tulare            |
| 3479      | Tractor          | Diesel    | 1979     | 61     | Non-Tier | 2018       | 74     | Tier 4 Final | 400                  |                      |                     | 10                 | Tulare            |
| 3480      | Tractor          | Diesel    | 1974     | 216    | Non-Tier | 2019       | 135    | Tier 4 Final | 1,800                |                      |                     | 10                 | Tulare            |
| 3481      | Tractor          | Diesel    | 1991     | 95     | Non-Tier | 2019       | 98     | Tier 4 Final | 700                  |                      |                     | 10                 | Tulare            |
| 3482      | Tractor          | Diesel    | 1990     | 90     | Non-Tier | 2018       | 105    | Tier 4 Final | 300                  |                      |                     | 10                 | Tulare            |
| 3483      | Tractor          | Diesel    | 1983     | 96     | Non-Tier | 2018       | 119    | Tier 4 Final | 500                  |                      |                     | 10                 | Tulare            |
| 3484      | Tractor          | Diesel    | 1981     | 83     | Non-Tier | 2019       | 100    | Tier 4 Final | 550                  |                      |                     | 10                 | Tulare            |
| 3485      | Tractor          | Diesel    | 1990     | 186    | Non-Tier | 2019       | 180    | Tier 4 Final | 600                  |                      |                     | 10                 | Tulare            |
| 3486      | Tractor          | Diesel    | 1988     | 69     | Non-Tier | 2019       | 75     | Tier 4 Final | 400                  |                      |                     | 10                 | Tulare            |
| 3487      | Tractor          | Diesel    | 1982     | 98     | Non-Tier | 2018       | 108    | Tier 4 Final | 400                  |                      |                     | 10                 | Tulare            |
| 3488      | Tractor          | Diesel    | 1980     | 97     | Non-Tier | 2019       | 74     | Tier 4 Final | 415                  |                      |                     | 10                 | Tulare            |
| 3489      | Tractor          | Diesel    | 1985     | 105    | Non-Tier | 2019       | 117    | Tier 4 Final | 700                  |                      |                     | 10                 | Tulare            |
| 3490      | Tractor          | Diesel    | 1974     | 63     | Non-Tier | 2019       | 74     | Tier 4 Final | 300                  |                      |                     | 10                 | Tulare            |
| 3491      | Tractor          | Diesel    | 1997     | 72     | Non-Tier | 2019       | 74     | Tier 4 Final | 290                  |                      |                     | 10                 | Tulare            |
| 3492      | Tractor          | Diesel    | 1998     | 114    | Tier 1   | 2018       | 115    | Tier 4 Final | 1,500                |                      |                     | 10                 | Tulare            |
| 3493      | Tractor          | Diesel    | 1995     | 84     | Non-Tier | 2020       | 100    | Tier 4 Final | 250                  |                      |                     | 10                 | Tulare            |
| 3494      | Tractor          | Diesel    | 1990     | 207    | Non-Tier | 2018       | 245    | Tier 4 Final | 1500                 |                      |                     | 10                 | Tulare            |
| 3495      | Tractor          | Diesel    | 1987     | 77     | Non-Tier | 2020       | 92     | Tier 4 Final | 200                  |                      |                     | 10                 | Tulare            |
| 3496      | Tractor          | Diesel    | 1975     | 110    | Non-Tier | 2019       | 125    | Tier 4 Final | 250                  |                      |                     | 10                 | Tulare            |
| 3497      | Tractor          | Diesel    | 1981     | 74     | Non-Tier | 2019       | 73     | Tier 4 Final | 300                  |                      |                     | 10                 | Tulare            |
| 3498      | Tractor          | Diesel    | 1973     | 68     | Non-Tier | 2019       | 82     | Tier 4 Final | 400                  |                      |                     | 10                 | Tulare            |
| 3499      | Tractor          | Diesel    | 1998     | 168    | Tier 1   | 2018       | 210    | Tier 4 Final | 900                  |                      |                     | 10                 | Tulare            |

## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline |        |          | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                  |           | Yr       | Old HP | Old Tier |            |        |              |                      |                      |                     |                    |                   |
| 3500      | Tractor          | Diesel    | 1976     | 73     | Non-Tier | 2019       | 90     | Tier 4 Final | 250                  |                      |                     | 10                 | Tulare            |
| 3501      | Tractor          | Diesel    | 1992     | 105    | Non-Tier | 2019       | 114    | Tier 4 Final | 650                  |                      |                     | 10                 | Tulare            |
| 3502      | Tractor          | Diesel    | 1978     | 60     | Non-Tier | 2019       | 70     | Tier 4 Final | 350                  |                      |                     | 10                 | Tulare            |
| 3503      | Tractor          | Diesel    | 2007     | 91     | Tier 2   | 2019       | 98     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3504      | Tractor          | Diesel    | 1998     | 72     | Tier 1   | 2018       | 86     | Tier 4 Final | 700                  |                      |                     | 10                 | Fresno            |
| 3505      | Tractor          | Diesel    | 2001     | 89     | Tier 1   | 2019       | 100    | Tier 4 Final | 1,500                |                      |                     | 10                 | Tulare            |
| 3506      | Tractor          | Diesel    | 1980     | 28     | Non-Tier | 2019       | 35     | Tier 4 Final | 50                   |                      |                     | 10                 | Tulare            |
| 3507      | Tractor          | Diesel    | 1981     | 63     | Non-Tier | 2019       | 73     | Tier 4 Final | 300                  |                      |                     | 10                 | Tulare            |
| 3508      | Tractor          | Diesel    | 1997     | 99     | Non-Tier | 2019       | 115    | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3509      | Tractor          | Diesel    | 1968     | 130    | Non-Tier | 2016       | 140    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3510      | Tractor          | Diesel    | 1978     | 27     | Non-Tier | 2020       | 32     | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3511      | Tractor          | Diesel    | 1962     | 77     | Non-Tier | 2018       | 65     | Tier 4 Final | 380                  |                      |                     | 10                 | Fresno            |
| 3512      | Tractor          | Diesel    | 1981     | 60     | Non-Tier | 2020       | 74     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3513      | Tractor          | Diesel    | 1982     | 84     | Non-Tier | 2019       | 105    | Tier 4 Final | 310                  |                      |                     | 10                 | Fresno            |
| 3514      | Tractor          | Diesel    | 1992     | 51     | Non-Tier | 2019       | 52     | Tier 4 Final | 275                  |                      |                     | 10                 | Fresno            |
| 3515      | Tractor          | Diesel    | 1982     | 370    | Non-Tier | 2019       | 420    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3516      | Tractor          | Diesel    | 1971     | 71     | Non-Tier | 2018       | 73     | Tier 4 Final | 700                  |                      |                     | 10                 | Fresno            |
| 3517      | Tractor          | Diesel    | 1984     | 81     | Non-Tier | 2019       | 70     | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3518      | Tractor          | Diesel    | 1982     | 73     | Non-Tier | 2019       | 90     | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3519      | Tractor          | Diesel    | 1997     | 92     | Non-Tier | 2019       | 114    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3520      | Tractor          | Diesel    | 1987     | 65     | Non-Tier | 2020       | 74     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3521      | Tractor          | Diesel    | 1982     | 82     | Non-Tier | 2019       | 100    | Tier 4 Final | 350                  |                      |                     | 10                 | Fresno            |
| 3522      | Tractor          | Diesel    | 1993     | 49     | Non-Tier | 2019       | 58     | Tier 4 Final | 2,000                |                      |                     | 10                 | Fresno            |
| 3523      | Shaker           | Diesel    | 1987     | 149    | Non-Tier | 2019       | 174    | Tier 4 Final | 250                  |                      |                     | 10                 | Fresno            |
| 3524      | Tractor          | Diesel    | 1978     | 250    | Non-Tier | 2019       | 125    | Tier 4 Final | 1,800                |                      |                     | 10                 | Fresno            |
| 3525      | Nut Harvester    | Diesel    | 1987     | 149    | Non-Tier | 2019       | 174    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3526      | Tractor          | Diesel    | 1993     | 81     | Non-Tier | 2018       | 80     | Tier 4 Final | 360                  |                      |                     | 10                 | Fresno            |
| 3527      | Tractor          | Diesel    | 1981     | 72     | Non-Tier | 2020       | 90     | Tier 4 Final | 600                  |                      |                     | 10                 | Fresno            |
| 3528      | Tractor          | Diesel    | 1990     | 61     | Non-Tier | 2019       | 74     | Tier 4 Final | 250                  |                      |                     | 10                 | Fresno            |
| 3529      | Tractor          | Diesel    | 1962     | 39     | Non-Tier | 2019       | 39     | Tier 4 Final | 325                  |                      |                     | 10                 | Fresno            |
| 3530      | Backhoe Loader   | Diesel    | 1980     | 90     | Non-Tier | 2019       | 62     | Tier 4 Final | 150                  |                      |                     | 10                 | Kern              |
| 3531      | Tractor          | Diesel    | 1974     | 58     | Non-Tier | 2019       | 70     | Tier 4 Final | 100                  |                      |                     | 10                 | Fresno            |
| 3532      | Tractor          | Diesel    | 1981     | 97     | Non-Tier | 2019       | 115    | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |

## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline |        |          | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                  |           | Yr       | Old HP | Old Tier |            |        |              |                      |                      |                     |                    |                   |
| 3533      | Tractor          | Diesel    | 1993     | 81     | Non-Tier | 2019       | 100    | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3534      | Tractor          | Diesel    | 1981     | 77     | Non-Tier | 2019       | 90     | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3535      | Tractor          | Diesel    | 1988     | 72     | Non-Tier | 2015       | 80     | Tier 4 Final | 300                  |                      |                     | 10                 | Kern              |
| 3536      | Tractor          | Diesel    | 1985     | 86     | Non-Tier | 2018       | 100    | Tier 4 Final | 600                  |                      |                     | 10                 | Kern              |
| 3537      | Tractor          | Diesel    | 2005     | 89     | Tier 2   | 2018       | 100    | Tier 4 Final | 600                  |                      |                     | 10                 | Kern              |
| 3538      | Tractor          | Diesel    | 1998     | 64     | Tier 1   | 2017       | 73     | Tier 4 Final | 600                  |                      |                     | 10                 | Kern              |
| 3539      | Tractor          | Diesel    | 1997     | 95     | Non-Tier | 2016       | 115    | Tier 4 Final | 750                  |                      |                     | 10                 | Kern              |
| 3540      | Tractor          | Diesel    | 2005     | 45     | Tier 2   | 2019       | 53     | Tier 4 Final | 240                  |                      |                     | 10                 | San Joaquin       |
| 3541      | Tractor          | Diesel    | 1979     | 80     | Non-Tier | 2018       | 74     | Tier 4 Final | 600                  |                      |                     | 10                 | Kern              |
| 3543      | Tractor          | Diesel    | 2005     | 225    | Tier 2   | 2015       | 250    | Tier 4 Final | 800                  |                      |                     | 10                 | Tulare            |
| 3544      | Tractor          | Diesel    | 2005     | 89     | Tier 2   | 2019       | 98     | Tier 4 Final | 1,000                |                      |                     | 10                 | Fresno            |
| 3545      | Tractor          | Diesel    | 1967     | 92     | Non-Tier | 2019       | 98     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3546      | Tractor          | Diesel    | 2004     | 53     | Tier 2   | 2019       | 65     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3547      | Tractor          | Diesel    | 1986     | 97     | Non-Tier | 2019       | 105    | Tier 4 Final | 1,350                |                      |                     | 10                 | Fresno            |
| 3548      | Tractor          | Diesel    | 1973     | 80     | Non-Tier | 2018       | 90     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3549      | Sweeper          | Diesel    | 1984     | 75     | Non-Tier | 2018       | 74     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3550      | Shaker           | Diesel    | 1982     | 80     | Non-Tier | 2019       | 74     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3551      | Tractor          | Diesel    | 2003     | 85     | Tier 1   | 2018       | 100    | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3552      | Tractor          | Diesel    | 1997     | 260    | Tier 1   | 2018       | 270    | Tier 4 Final | 2500                 |                      |                     | 10                 | Tulare            |
| 3553      | Tractor          | Diesel    | 2003     | 95     | Tier 1   | 2020       | 100    | Tier 4 Final | 400                  |                      |                     | 10                 | Tulare            |
| 3554      | Tractor          | Diesel    | 1970     | 92     | Non-Tier | 2020       | 113    | Tier 4 Final | 480                  |                      |                     | 10                 | Kern              |
| 3555      | Tractor          | Diesel    | 1980     | 40     | Non-Tier | 2020       | 45     | Tier 4 Final | 400                  |                      |                     | 10                 | Kern              |
| 3556      | Tractor          | Diesel    | 1994     | 90     | Non-Tier | 2019       | 100    | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3557      | Tractor          | Diesel    | 1982     | 97     | Non-Tier | 2016       | 105    | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3558      | Tractor          | Diesel    | 1974     | 91     | Non-Tier | 2019       | 98     | Tier 4 Final | 95                   |                      |                     | 10                 | Fresno            |
| 3559      | Tractor          | Diesel    | 1999     | 85     | Tier 1   | 2018       | 100    | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3560      | Tractor          | Diesel    | 1995     | 124    | Non-Tier | 2019       | 100    | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3561      | Tractor          | Diesel    | 1980     | 80     | Non-Tier | 2016       | 99     | Tier 4 Final | 120                  |                      |                     | 10                 | Fresno            |
| 3562      | Tractor          | Diesel    | 1999     | 50     | Tier 1   | 2020       | 53     | Tier 4 Final | 230                  |                      |                     | 10                 | Fresno            |
| 3563      | Tractor          | Diesel    | 1982     | 82     | Non-Tier | 2019       | 100    | Tier 4 Final | 320                  |                      |                     | 10                 | Fresno            |
| 3564      | Tractor          | Diesel    | 1980     | 63     | Non-Tier | 2020       | 74     | Tier 4 Final | 100                  |                      |                     | 10                 | Fresno            |
| 3565      | Tractor          | Diesel    | 1987     | 96     | Non-Tier | 2019       | 115    | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3566      | Tractor          | Diesel    | 1999     | 110    | Tier 1   | 2019       | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Tulare            |

## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|-------------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
| 3567      | Shaker           | Diesel    | 1980        | 120    | Non-Tier | 2019       | 148    | Tier 4 Final | 900                  |                      |                     | 10                 | Tulare            |
| 3568      | Tractor          | Diesel    | 1974        | 186    | Non-Tier | 2019       | 115    | Tier 4 Final | 1500                 |                      |                     | 10                 | Tulare            |
| 3569      | Tractor          | Diesel    | 2007        | 94     | Tier 2   | 2019       | 115    | Tier 4 Final | 1200                 |                      |                     | 10                 | Tulare            |
| 3570      | Tractor          | Diesel    | 2006        | 94     | Tier 2   | 2019       | 115    | Tier 4 Final | 1200                 |                      |                     | 10                 | Tulare            |
| 3571      | Tractor          | Diesel    | 2007        | 94     | Tier 2   | 2019       | 115    | Tier 4 Final | 1200                 |                      |                     | 10                 | Tulare            |
| 3572      | Tractor          | Diesel    | 1969        | 75     | Non-Tier | 2020       | 74     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3573      | Tractor          | Diesel    | 1979        | 84     | Non-Tier | 2019       | 74     | Tier 4 Final | 1,000                |                      |                     | 10                 | Fresno            |
| 3574      | Tractor          | Diesel    | 1991        | 72     | Non-Tier | 2018       | 90     | Tier 4 Final | 550                  |                      |                     | 10                 | Fresno            |
| 3575      | Tractor          | Diesel    | 1996        | 95     | Non-Tier | 2019       | 100    | Tier 4 Final | 700                  |                      |                     | 10                 | Fresno            |
| 3576      | Tractor          | Diesel    | 1969        | 55     | Non-Tier | 2018       | 47     | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3577      | Tractor          | Diesel    | 1977        | 128    | Non-Tier | 2019       | 120    | Tier 4 Final | 250                  |                      |                     | 10                 | Fresno            |
| 3578      | Tractor          | Diesel    | 1969        | 60     | Non-Tier | 2018       | 65     | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3579      | Tractor          | Diesel    | 1987        | 97     | Non-Tier | 2019       | 114    | Tier 4 Final | 1,000                |                      |                     | 10                 | Fresno            |
| 3580      | Tractor          | Diesel    | 1994        | 104    | Non-Tier | 2019       | 115    | Tier 4 Final | 1000                 |                      |                     | 10                 | Fresno            |
| 3581      | Tractor          | Diesel    | 1967        | 58     | Non-Tier | 2019       | 71     | Tier 4 Final | 1,200                |                      |                     | 10                 | Fresno            |
| 3582      | Tractor          | Diesel    | 1972        | 145    | Non-Tier | 2019       | 115    | Tier 4 Final | 550                  |                      |                     | 10                 | Fresno            |
| 3583      | Tractor          | Diesel    | 2004        | 105    | Tier 2   | 2020       | 64     | Tier 4 Final | 1500                 |                      |                     | 10                 | Tulare            |
| 3584      | Tractor          | Diesel    | 1978        | 98     | Non-Tier | 2019       | 100    | Tier 4 Final | 700                  |                      |                     | 10                 | Merced            |
| 3585      | Tractor          | Diesel    | 1998        | 110    | Tier 1   | 2019       | 105    | Tier 4 Final | 400                  |                      |                     | 10                 | Madera            |
| 3586      | Tractor          | Diesel    | 1975        | 72     | Non-Tier | 2020       | 90     | Tier 4 Final | 300                  |                      |                     | 10                 | Madera            |
| 3587      | Tractor          | Diesel    | 1982        | 90     | Non-Tier | 2020       | 115    | Tier 4 Final | 180                  |                      |                     | 10                 | Madera            |
| 3588      | Tractor          | Diesel    | 1999        | 95     | Tier 1   | 2020       | 115    | Tier 4 Final | 350                  |                      |                     | 10                 | Madera            |
| 3589      | Loader           | Diesel    | 1981        | 59     | Non-Tier | 2019       | 70     | Tier 4 Final | 750                  |                      |                     | 10                 | Madera            |
| 3590      | Tractor          | Diesel    | 1971        | 46     | Non-Tier | 2020       | 45     | Tier 4 Final | 300                  |                      |                     | 10                 | Madera            |
| 3591      | Nut Harvester    | Diesel    | 1990        | 140    | Non-Tier | 2020       | 174    | Tier 4 Final | 250                  |                      |                     | 10                 | Madera            |
| 3592      | Tractor          | Diesel    | 1980        | 157    | Non-Tier | 2018       | 125    | Tier 4 Final | 800                  |                      |                     | 10                 | Madera            |
| 3593      | Tractor          | Diesel    | 1981        | 96     | Non-Tier | 2018       | 125    | Tier 4 Final | 800                  |                      |                     | 10                 | Madera            |
| 3594      | Tractor          | Diesel    | 1987        | 97     | Non-Tier | 2016       | 105    | Tier 4 Final | 400                  |                      |                     | 10                 | Merced            |
| 3595      | Tractor          | Diesel    | 1992        | 91     | Non-Tier | 2017       | 92     | Tier 4 Final | 160                  |                      |                     | 10                 | Merced            |
| 3596      | Loader           | Diesel    | 1975        | 151    | Non-Tier | 2018       | 214    | Tier 4 Final | 200                  |                      |                     | 10                 | Merced            |
| 3597      | Tractor          | Diesel    | 1999        | 104    | Tier 1   | 2020       | 115    | Tier 4 Final | 500                  |                      |                     | 10                 | Merced            |
| 3598      | Tractor          | Diesel    | 1992        | 92     | Non-Tier | 2019       | 93     | Tier 4 Final | 200                  |                      |                     | 10                 | Merced            |
| 3599      | Sweeper          | Diesel    | 1994        | 139    | Non-Tier | 2019       | 48     | Tier 4 Final | 1,400                |                      |                     | 10                 | Merced            |



## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline |        |          | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                  |           | Yr       | Old HP | Old Tier |            |        |              |                      |                      |                     |                    |                   |
| 3600      | Tractor          | Diesel    | 1976     | 126    | Non-Tier | 2018       | 115    | Tier 4 Final | 150                  |                      |                     | 10                 | Madera            |
| 3601      | Tractor          | Diesel    | 2003     | 103    | Tier 1   | 2020       | 115    | Tier 4 Final | 300                  |                      |                     | 10                 | Merced            |
| 3602      | Tractor          | Diesel    | 1978     | 158    | Non-Tier | 2020       | 115    | Tier 4 Final | 500                  |                      |                     | 10                 | Merced            |
| 3603      | Tractor          | Diesel    | 1977     | 84     | Non-Tier | 2019       | 98     | Tier 4 Final | 200                  |                      |                     | 10                 | Tulare            |
| 3604      | Tractor          | Diesel    | 1998     | 100    | Tier 1   | 2019       | 115    | Tier 4 Final | 500                  |                      |                     | 10                 | Kings             |
| 3605      | Tractor          | Diesel    | 2000     | 92     | Tier 1   | 2019       | 106    | Tier 4 Final | 1050                 |                      |                     | 10                 | Kings             |
| 3606      | Tractor          | Diesel    | 2007     | 99     | Tier 2   | 2019       | 117    | Tier 4 Final | 300                  |                      |                     | 10                 | Kings             |
| 3607      | Tractor          | Diesel    | 2007     | 99     | Tier 2   | 2019       | 117    | Tier 4 Final | 300                  |                      |                     | 10                 | Kings             |
| 3608      | Tractor          | Diesel    | 1963     | 54     | Non-Tier | 2019       | 60     | Tier 4 Final | 100                  |                      |                     | 10                 | Kings             |
| 3609      | Tractor          | Diesel    | 2002     | 208    | Tier 1   | 2018       | 245    | Tier 4 Final | 2,000                |                      |                     | 10                 | Kings             |
| 3610      | Tractor          | Diesel    | 1994     | 300    | Non-Tier | 2018       | 370    | Tier 4 Final | 1,000                |                      |                     | 10                 | Kings             |
| 3611      | Tractor          | Diesel    | 2004     | 110    | Tier 2   | 2019       | 130    | Tier 4 Final | 1085                 |                      |                     | 10                 | Kings             |
| 3612      | Tractor          | Diesel    | 1975     | 94     | Non-Tier | 2020       | 113    | Tier 4 Final | 450                  |                      |                     | 10                 | Kings             |
| 3613      | Loader           | Diesel    | 1999     | 95     | Tier 1   | 2018       | 109    | Tier 4 Final | 600                  |                      |                     | 10                 | Kings             |
| 3614      | Tractor          | Diesel    | 1963     | 61     | Non-Tier | 2020       | 75     | Tier 4 Final | 500                  |                      |                     | 10                 | Kings             |
| 3615      | Tractor          | Diesel    | 1973     | 58     | Non-Tier | 2018       | 73     | Tier 4 Final | 100                  |                      |                     | 10                 | Fresno            |
| 3616      | Tractor          | Diesel    | 1968     | 52     | Non-Tier | 2020       | 58     | Tier 4 Final | 150                  |                      |                     | 10                 | Tulare            |
| 3617      | Tractor          | Diesel    | 1997     | 36     | Non-Tier | 2018       | 39     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3618      | Tractor          | Diesel    | 1975     | 80     | Non-Tier | 2019       | 100    | Tier 4 Final | 250                  |                      |                     | 10                 | Tulare            |
| 3619      | Tractor          | Diesel    | 1983     | 98     | Non-Tier | 2018       | 107    | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3620      | Tractor          | Diesel    | 1990     | 36     | Non-Tier | 2018       | 39     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3621      | Tractor          | Diesel    | 1979     | 55     | Non-Tier | 2020       | 50     | Tier 4 Final | 600                  |                      |                     | 10                 | Fresno            |
| 3622      | Tractor          | Diesel    | 1999     | 95     | Tier 1   | 2020       | 115    | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3623      | Tractor          | Diesel    | 1997     | 103    | Tier 1   | 2019       | 115    | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3624      | Tractor          | Diesel    | 1979     | 100    | Non-Tier | 2019       | 100    | Tier 4 Final | 165                  |                      |                     | 10                 | Fresno            |
| 3625      | Tractor          | Diesel    | 2000     | 27     | Tier 1   | 2018       | 34     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3626      | Tractor          | Diesel    | 2006     | 114    | Tier 2   | 2020       | 125    | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3627      | Tractor          | Diesel    | 1967     | 69     | Non-Tier | 2019       | 74     | Tier 4 Final | 350                  |                      |                     | 10                 | Fresno            |
| 3628      | Tractor          | Diesel    | 2000     | 104    | Tier 1   | 2019       | 123    | Tier 4 Final | 900                  |                      |                     | 10                 | Fresno            |
| 3629      | Tractor          | Diesel    | 1970     | 75     | Non-Tier | 2018       | 85     | Tier 4 Final | 250                  |                      |                     | 10                 | Fresno            |
| 3630      | Tractor          | Diesel    | 1964     | 58     | Non-Tier | 2020       | 55     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3631      | Tractor          | Diesel    | 1968     | 58     | Non-Tier | 2019       | 55     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3632      | Tractor          | Diesel    | 1980     | 76     | Non-Tier | 2019       | 98     | Tier 4 Final | 150                  |                      |                     | 10                 | Fresno            |

## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline |        |          | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                  |           | Yr       | Old HP | Old Tier |            |        |              |                      |                      |                     |                    |                   |
| 3633      | Tractor          | Diesel    | 1985     | 25     | Non-Tier | 2019       | 32     | Tier 4 Final | 1,600                |                      |                     | 10                 | Fresno            |
| 3634      | Tractor          | Diesel    | 1969     | 75     | Non-Tier | 2019       | 73     | Tier 4 Final | 700                  |                      |                     | 10                 | Fresno            |
| 3635      | Tractor          | Diesel    | 1989     | 63     | Non-Tier | 2019       | 75     | Tier 4 Final | 120                  |                      |                     | 10                 | Fresno            |
| 3636      | Tractor          | Diesel    | 2001     | 89     | Tier 1   | 2016       | 106    | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3637      | Tractor          | Diesel    | 1973     | 80     | Non-Tier | 2020       | 74     | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3638      | Tractor          | Diesel    | 2004     | 92     | Tier 2   | 2019       | 105    | Tier 4 Final | 1200                 |                      |                     | 10                 | Fresno            |
| 3639      | Tractor          | Diesel    | 1973     | 58     | Non-Tier | 2019       | 70     | Tier 4 Final | 150                  |                      |                     | 10                 | Fresno            |
| 3640      | Tractor          | Diesel    | 1990     | 65     | Non-Tier | 2019       | 75     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3641      | Shaker           | Diesel    | 1984     | 117    | Non-Tier | 2019       | 142    | Tier 4 Final | 440                  |                      |                     | 10                 | Fresno            |
| 3642      | Tractor          | Diesel    | 1994     | 103    | Non-Tier | 2020       | 115    | Tier 4 Final | 350                  |                      |                     | 10                 | Fresno            |
| 3643      | Tractor          | Diesel    | 1987     | 84     | Non-Tier | 2016       | 100    | Tier 4 Final | 1,000                |                      |                     | 10                 | Stanislaus        |
| 3644      | Tractor          | Diesel    | 1997     | 108    | Tier 1   | 2018       | 74     | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| 3645      | Tractor          | Diesel    | 1968     | 115    | Non-Tier | 2019       | 114    | Tier 4 Final | 300                  |                      |                     | 10                 | Stanislaus        |
| 3646      | Tractor          | Diesel    | 1976     | 51     | Non-Tier | 2019       | 58     | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| 3647      | Tractor          | Diesel    | 1995     | 95     | Non-Tier | 2018       | 101    | Tier 4 Final | 450                  |                      |                     | 10                 | Stanislaus        |
| 3648      | Tractor          | Diesel    | 1986     | 53     | Non-Tier | 2018       | 59     | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| 3649      | Tractor          | Diesel    | 2006     | 114    | Tier 2   | 2020       | 115    | Tier 4 Final | 600                  |                      |                     | 10                 | Stanislaus        |
| 3650      | Tractor          | Diesel    | 2005     | 98     | Tier 2   | 2019       | 115    | Tier 4 Final | 517                  |                      |                     | 10                 | Stanislaus        |
| 3651      | Tractor          | Diesel    | 2004     | 90     | Tier 2   | 2017       | 100    | Tier 4 Final | 660                  |                      |                     | 10                 | Stanislaus        |
| 3652      | Tractor          | Diesel    | 1986     | 81     | Non-Tier | 2016       | 100    | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| 3653      | Tractor          | Diesel    | 1969     | 76     | Non-Tier | 2020       | 66     | Tier 4 Final | 100                  |                      |                     | 10                 | Stanislaus        |
| 3654      | Tractor          | Diesel    | 1975     | 121    | Non-Tier | 2020       | 123    | Tier 4 Final | 400                  |                      |                     | 10                 | Stanislaus        |
| 3655      | Tractor          | Diesel    | 1979     | 94     | Non-Tier | 2020       | 106    | Tier 4 Final | 600                  |                      |                     | 10                 | Stanislaus        |
| 3656      | Tractor          | Diesel    | 1964     | 61     | Non-Tier | 2019       | 67     | Tier 4 Final | 25                   |                      |                     | 10                 | Stanislaus        |
| 3657      | Shaker           | Diesel    | 2001     | 125    | Tier 1   | 2020       | 148    | Tier 4 Final | 350                  |                      |                     | 10                 | Stanislaus        |
| 3658      | Tractor          | Diesel    | 2002     | 115    | Tier 2   | 2020       | 115    | Tier 4 Final | 1000                 |                      |                     | 10                 | Stanislaus        |
| 3659      | Tractor          | Diesel    | 1949     | 86     | Non-Tier | 2019       | 100    | Tier 4 Final | 300                  |                      |                     | 10                 | Stanislaus        |
| 3660      | Tractor          | Diesel    | 2000     | 71     | Tier 1   | 2019       | 74     | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| 3661      | Tractor          | Diesel    | 1974     | 25     | Non-Tier | 2018       | 35     | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3662      | Tractor          | Diesel    | 1995     | 81     | Non-Tier | 2020       | 100    | Tier 4 Final | 1075                 |                      |                     | 10                 | Fresno            |
| 3663      | Tractor          | Diesel    | 1991     | 60     | Non-Tier | 2019       | 74     | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |
| 3664      | Tractor          | Diesel    | 1977     | 45     | Non-Tier | 2019       | 54     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3665      | Tractor          | Diesel    | 1988     | 88     | Non-Tier | 2019       | 100    | Tier 4 Final | 300                  |                      |                     | 10                 | Fresno            |

## Description Vehicle Replacement

| Project # | Primary Function  | Fuel Type | Baseline |        |          | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|-------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                   |           | Yr       | Old HP | Old Tier |            |        |              |                      |                      |                     |                    |                   |
| 3666      | Tractor           | Diesel    | 1996     | 81     | Non-Tier | 2019       | 100    | Tier 4 Final | 290                  |                      |                     | 10                 | Fresno            |
| 3667      | Tractor           | Diesel    | 1972     | 58     | Non-Tier | 2018       | 73     | Tier 4 Final | 450                  |                      |                     | 10                 | San Joaquin       |
| 3668      | Tractor           | Diesel    | 1971     | 174    | Non-Tier | 2020       | 210    | Tier 4 Final | 750                  |                      |                     | 10                 | San Joaquin       |
| 3669      | Tractor           | Diesel    | 1998     | 89     | Tier 1   | 2016       | 105    | Tier 4 Final | 1,000                |                      |                     | 10                 | San Joaquin       |
| 3670      | Tractor           | Diesel    | 1972     | 112    | Non-Tier | 2019       | 73     | Tier 4 Final | 150                  |                      |                     | 10                 | San Joaquin       |
| 3671      | Tractor           | Diesel    | 1987     | 65     | Non-Tier | 2020       | 72     | Tier 4 Final | 600                  |                      |                     | 10                 | San Joaquin       |
| 3672      | Tractor           | Diesel    | 1975     | 45     | Non-Tier | 2019       | 47     | Tier 4 Final | 400                  |                      |                     | 10                 | San Joaquin       |
| 3673      | Tractor           | Diesel    | 1953     | 86     | Non-Tier | 2019       | 92     | Tier 4 Final | 400                  |                      |                     | 10                 | San Joaquin       |
| 3674      | Tractor           | Diesel    | 1967     | 90     | Non-Tier | 2020       | 99     | Tier 4 Final | 200                  |                      |                     | 10                 | San Joaquin       |
| 3675      | Tractor           | Diesel    | 1973     | 76     | Non-Tier | 2020       | 74     | Tier 4 Final | 100                  |                      |                     | 10                 | San Joaquin       |
| 3676      | Tractor           | Diesel    | 1984     | 75     | Non-Tier | 2019       | 74     | Tier 4 Final | 200                  |                      |                     | 10                 | San Joaquin       |
| 3677      | Tractor           | Diesel    | 1975     | 151    | Non-Tier | 2020       | 123    | Tier 4 Final | 600                  |                      |                     | 10                 | San Joaquin       |
| 3678      | Tractor           | Diesel    | 1988     | 107    | Non-Tier | 2018       | 125    | Tier 4 Final | 600                  |                      |                     | 10                 | Kings             |
| 3679      | Tractor           | Diesel    | 2004     | 92     | Tier 2   | 2020       | 114    | Tier 4 Final | 1000                 |                      |                     | 10                 | Kings             |
| 3680      | Tractor           | Diesel    | 2002     | 92     | Tier 1   | 2020       | 114    | Tier 4 Final | 1000                 |                      |                     | 10                 | Kings             |
| 3681      | Tractor           | Diesel    | 2005     | 95     | Tier 2   | 2019       | 90     | Tier 4 Final | 900                  |                      |                     | 10                 | Kings             |
| 3682      | Tractor           | Diesel    | 2005     | 95     | Tier 2   | 2019       | 90     | Tier 4 Final | 900                  |                      |                     | 10                 | Kings             |
| 3683      | Tractor           | Diesel    | 1996     | 83     | Non-Tier | 2016       | 100    | Tier 4 Final | 450                  |                      |                     | 10                 | Stanislaus        |
| 3684      | Tractor           | Diesel    | 1998     | 100    | Tier 1   | 2018       | 117    | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| 3685      | Tractor           | Diesel    | 2002     | 85     | Tier 1   | 2018       | 100    | Tier 4 Final | 150                  |                      |                     | 10                 | Stanislaus        |
| 3686      | Tractor           | Diesel    | 2001     | 92     | Tier 1   | 2017       | 114    | Tier 4 Final | 1,500                |                      |                     | 10                 | Stanislaus        |
| 3687      | Tractor           | Diesel    | 1995     | 95     | Non-Tier | 2019       | 100    | Tier 4 Final | 400                  |                      |                     | 10                 | Stanislaus        |
| 3688      | Tractor           | Diesel    | 1980     | 80     | Non-Tier | 2019       | 100    | Tier 4 Final | 350                  |                      |                     | 10                 | Stanislaus        |
| 3689      | Tractor           | Diesel    | 1988     | 97     | Non-Tier | 2017       | 115    | Tier 4 Final | 250                  |                      |                     | 10                 | Stanislaus        |
| 3690      | Tractor           | Diesel    | 1994     | 81     | Non-Tier | 2017       | 92     | Tier 4 Final | 600                  |                      |                     | 10                 | Stanislaus        |
| 3691      | Tractor           | Diesel    | 1988     | 95     | Non-Tier | 2018       | 92     | Tier 4 Final | 600                  |                      |                     | 10                 | Stanislaus        |
| 3692      | Skid Steer Loader | Diesel    | 1998     | 105    | Tier 1   | 2019       | 92     | Tier 4 Final | 360                  |                      |                     | 10                 | Stanislaus        |
| 3693      | Tractor           | Diesel    | 1993     | 81     | Non-Tier | 2019       | 100    | Tier 4 Final | 400                  |                      |                     | 10                 | Stanislaus        |
| 3694      | Tractor           | Diesel    | 2005     | 92     | Tier 2   | 2019       | 115    | Tier 4 Final | 575                  |                      |                     | 10                 | Stanislaus        |
| 3695      | Backhoe Loader    | Diesel    | 2006     | 78     | Tier 2   | 2018       | 97     | Tier 4 Final | 700                  |                      |                     | 10                 | Stanislaus        |
| 3696      | Tractor           | Diesel    | 2007     | 38     | Tier 2   | 2020       | 45     | Tier 4 Final | 500                  |                      |                     | 10                 | Fresno            |
| 3697      | Tractor           | Diesel    | 1973     | 76     | Non-Tier | 2020       | 90     | Tier 4 Final | 150                  |                      |                     | 10                 | Madera            |
| 3698      | Tractor           | Diesel    | 1977     | 45     | Non-Tier | 2018       | 50     | Tier 4 Final | 300                  |                      |                     | 10                 | Madera            |

## Description Vehicle Replacement

| Project # | Primary Function  | Fuel Type | Baseline |        |          | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|-------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                   |           | Yr       | Old HP | Old Tier |            |        |              |                      |                      |                     |                    |                   |
| 3699      | Tractor           | Diesel    | 1992     | 88     | Non-Tier | 2019       | 100    | Tier 4 Final | 250                  |                      |                     | 10                 | Madera            |
| 3700      | Tractor           | Diesel    | 2000     | 100    | Tier 1   | 2020       | 120    | Tier 4 Final | 350                  |                      |                     | 10                 | Madera            |
| 3701      | Tractor           | Diesel    | 2001     | 99     | Tier 1   | 2019       | 100    | Tier 4 Final | 270                  |                      |                     | 10                 | Madera            |
| 3702      | Tractor           | Diesel    | 1982     | 84     | Non-Tier | 2019       | 100    | Tier 4 Final | 250                  |                      |                     | 10                 | Madera            |
| 3703      | Tractor           | Diesel    | 1973     | 120    | Non-Tier | 2020       | 115    | Tier 4 Final | 600                  |                      |                     | 10                 | Madera            |
| 3704      | Tractor           | Diesel    | 2004     | 122    | Tier 2   | 2020       | 131    | Tier 4 Final | 1460                 |                      |                     | 10                 | Madera            |
| 3705      | Skid Steer Loader | Diesel    | 2007     | 75     | Tier 2   | 2019       | 74     | Tier 4 Final | 1825                 |                      |                     | 10                 | Madera            |
| 3706      | Tractor           | Diesel    | 1975     | 96     | Non-Tier | 2020       | 115    | Tier 4 Final | 500                  |                      |                     | 10                 | Madera            |
| 3707      | Tractor           | Diesel    | 1991     | 100    | Non-Tier | 2019       | 120    | Tier 4 Final | 300                  |                      |                     | 10                 | Madera            |
| 3708      | Tractor           | Diesel    | 1997     | 78     | Non-Tier | 2019       | 90     | Tier 4 Final | 150                  |                      |                     | 10                 | Merced            |
| 3709      | Tractor           | Diesel    | 1979     | 69     | Non-Tier | 2019       | 74     | Tier 4 Final | 600                  |                      |                     | 10                 | Merced            |
| 3710      | Tractor           | Diesel    | 1977     | 90     | Non-Tier | 2019       | 105    | Tier 4 Final | 120                  |                      |                     | 10                 | Merced            |
| 3711      | Tractor           | Diesel    | 2000     | 98     | Tier 1   | 2019       | 101    | Tier 4 Final | 200                  |                      |                     | 10                 | Tulare            |
| 3712      | Tractor           | Diesel    | 1965     | 41     | Non-Tier | 2019       | 49     | Tier 4 Final | 300                  |                      |                     | 10                 | Tulare            |
| 3713      | Tractor           | Diesel    | 1968     | 66     | Non-Tier | 2019       | 72     | Tier 4 Final | 70                   |                      |                     | 10                 | Tulare            |
| 3714      | Tractor           | Diesel    | 1979     | 77     | Non-Tier | 2019       | 66     | Tier 4 Final | 1100                 |                      |                     | 10                 | Tulare            |
| 3715      | Tractor           | Diesel    | 1996     | 49     | Non-Tier | 2019       | 57     | Tier 4 Final | 300                  |                      |                     | 10                 | Tulare            |
| 3716      | Tractor           | Diesel    | 2002     | 101    | Tier 1   | 2020       | 125    | Tier 4 Final | 300                  |                      |                     | 10                 | Tulare            |
| 3717      | Tractor           | Diesel    | 1988     | 60     | Non-Tier | 2020       | 73     | Tier 4 Final | 300                  |                      |                     | 10                 | Tulare            |
| 3718      | Tractor           | Diesel    | 1993     | 186    | Non-Tier | 2018       | 175    | Tier 4 Final | 1,200                |                      |                     | 10                 | Tulare            |
| 3719      | Tractor           | Diesel    | 1984     | 63     | Non-Tier | 2019       | 70     | Tier 4 Final | 320                  |                      |                     | 10                 | Tulare            |
| 3720      | Tractor           | Diesel    | 1984     | 98     | Non-Tier | 2018       | 90     | Tier 4 Final | 1200                 |                      |                     | 10                 | San Joaquin       |
| 3721      | Tractor           | Diesel    | 1996     | 88     | Non-Tier | 2019       | 105    | Tier 4 Final | 800                  |                      |                     | 10                 | San Joaquin       |
| 3722      | Tractor           | Diesel    | 1984     | 127    | Non-Tier | 2019       | 115    | Tier 4 Final | 250                  |                      |                     | 10                 | San Joaquin       |
| 3723      | Tractor           | Diesel    | 1965     | 52     | Non-Tier | 2019       | 64     | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3724      | Tractor           | Diesel    | 1979     | 38     | Non-Tier | 2019       | 40     | Tier 4 Final | 400                  |                      |                     | 10                 | Stanislaus        |
| 3725      | Tractor           | Diesel    | 2000     | 92     | Tier 1   | 2018       | 114    | Tier 4 Final | 700                  |                      |                     | 10                 | Stanislaus        |
| 3726      | Tractor           | Diesel    | 1975     | 55     | Non-Tier | 2020       | 67     | Tier 4 Final | 250                  |                      |                     | 10                 | San Joaquin       |
| 3727      | Tractor           | Diesel    | 1978     | 216    | Non-Tier | 2019       | 250    | Tier 4 Final | 600                  |                      |                     | 10                 | San Joaquin       |
| 3728      | Tractor           | Diesel    | 1984     | 98     | Non-Tier | 2019       | 90     | Tier 4 Final | 1200                 |                      |                     | 10                 | San Joaquin       |
| 3729      | Tractor           | Diesel    | 1991     | 60     | Non-Tier | 2020       | 75     | Tier 4 Final | 100                  |                      |                     | 10                 | San Joaquin       |
| 3730      | Tractor           | Diesel    | 1982     | 49     | Non-Tier | 2020       | 40     | Tier 4 Final | 350                  |                      |                     | 10                 | San Joaquin       |
| 3731      | Tractor           | Diesel    | 1974     | 58     | Non-Tier | 2019       | 38     | Tier 4 Final | 200                  |                      |                     | 10                 | San Joaquin       |

## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline |        |          | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|----------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
|           |                  |           | Yr       | Old HP | Old Tier |            |        |              |                      |                      |                     |                    |                   |
| 3732      | Tractor          | Diesel    | 1977     | 97     | Non-Tier | 2018       | 106    | Tier 4 Final | 650                  |                      |                     | 10                 | San Joaquin       |
| 3733      | Tractor          | Diesel    | 1984     | 67     | Non-Tier | 2018       | 80     | Tier 4 Final | 400                  |                      |                     | 10                 | San Joaquin       |
| 3734      | Tractor          | Diesel    | 1973     | 43     | Non-Tier | 2019       | 49     | Tier 4 Final | 450                  |                      |                     | 10                 | San Joaquin       |
| 3735      | Tractor          | Diesel    | 2003     | 255    | Tier 2   | 2020       | 310    | Tier 4 Final | 700                  |                      |                     | 10                 | San Joaquin       |
| 3736      | Tractor          | Diesel    | 1997     | 260    | Tier 1   | 2020       | 250    | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3737      | Tractor          | Diesel    | 2004     | 477    | Tier 2   | 2020       | 575    | Tier 4 Final | 3,500                |                      |                     | 10                 | San Joaquin       |
| 3738      | Tractor          | Diesel    | 1960     | 61     | Non-Tier | 2019       | 55     | Tier 4 Final | 3000                 |                      |                     | 10                 | San Joaquin       |
| 3739      | Tractor          | Diesel    | 1964     | 54     | Non-Tier | 2020       | 56     | Tier 4 Final | 300                  |                      |                     | 10                 | San Joaquin       |
| 3740      | Tractor          | Diesel    | 1982     | 216    | Non-Tier | 2019       | 270    | Tier 4 Final | 700                  |                      |                     | 10                 | San Joaquin       |
| 3741      | Tractor          | Diesel    | 2004     | 90     | Tier 2   | 2019       | 114    | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| 3742      | Tractor          | Diesel    | 2004     | 92     | Tier 2   | 2019       | 106    | Tier 4 Final | 135                  |                      |                     | 10                 | Stanislaus        |
| 3743      | Loader           | Diesel    | 1997     | 90     | Non-Tier | 2020       | 75     | Tier 4 Final | 1000                 |                      |                     | 10                 | Stanislaus        |
| 3744      | Tractor          | Diesel    | 1960     | 47     | Non-Tier | 2020       | 58     | Tier 4 Final | 120                  |                      |                     | 10                 | Stanislaus        |
| 3745      | Tractor          | Diesel    | 1977     | 98     | Non-Tier | 2019       | 115    | Tier 4 Final | 750                  |                      |                     | 10                 | Stanislaus        |
| 3746      | Tractor          | Diesel    | 2003     | 42     | Tier 2   | 2019       | 105    | Tier 4 Final | 450                  |                      |                     | 10                 | Stanislaus        |
| 3747      | Tractor          | Diesel    | 1975     | 58     | Non-Tier | 2020       | 66     | Tier 4 Final | 150                  |                      |                     | 10                 | Stanislaus        |
| 3748      | Sweeper          | Diesel    | 1991     | 80     | Non-Tier | 2020       | 74     | Tier 4 Final | 400                  |                      |                     | 10                 | Stanislaus        |
| 3749      | Tractor          | Diesel    | 1991     | 88     | Non-Tier | 2019       | 105    | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| 3750      | Tractor          | Diesel    | 1992     | 97     | Non-Tier | 2019       | 114    | Tier 4 Final | 200                  |                      |                     | 10                 | Stanislaus        |
| 3751      | Tractor          | Diesel    | 1987     | 54     | Non-Tier | 2020       | 66     | Tier 4 Final | 1000                 |                      |                     | 10                 | Stanislaus        |
| 3752      | Tractor          | Diesel    | 1999     | 97     | Tier 1   | 2020       | 115    | Tier 4 Final | 250                  |                      |                     | 10                 | Stanislaus        |
| 3753      | Tractor          | Diesel    | 1981     | 56     | Non-Tier | 2018       | 45     | Tier 4 Final | 200                  |                      |                     | 10                 | Stanislaus        |
| 3754      | Tractor          | Diesel    | 1988     | 84     | Non-Tier | 2020       | 100    | Tier 4 Final | 200                  |                      |                     | 10                 | Stanislaus        |
| 3755      | Tractor          | Diesel    | 1976     | 80     | Non-Tier | 2020       | 74     | Tier 4 Final | 500                  |                      |                     | 10                 | Stanislaus        |
| 3756      | Tractor          | Diesel    | 1986     | 46     | Non-Tier | 2019       | 53     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3757      | Tractor          | Diesel    | 1968     | 105    | Non-Tier | 2019       | 113    | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3758      | Tractor          | Diesel    | 1997     | 35     | Non-Tier | 2018       | 39     | Tier 4 Final | 400                  |                      |                     | 10                 | Fresno            |
| 3759      | Tractor          | Diesel    | 1974     | 45     | Non-Tier | 2019       | 53     | Tier 4 Final | 250                  |                      |                     | 10                 | Fresno            |
| 3760      | Tractor          | Diesel    | 1980     | 98     | Non-Tier | 2020       | 105    | Tier 4 Final | 200                  |                      |                     | 10                 | Fresno            |
| 3761      | Tractor          | Diesel    | 1966     | 45     | Non-Tier | 2018       | 50     | Tier 4 Final | 1050                 |                      |                     | 10                 | Tulare            |
| 3762      | Tractor          | Diesel    | 1975     | 47     | Non-Tier | 2019       | 58     | Tier 4 Final | 500                  |                      |                     | 10                 | San Joaquin       |
| 3763      | Tractor          | Diesel    | 1988     | 139    | Non-Tier | 2020       | 123    | Tier 4 Final | 600                  |                      |                     | 10                 | San Joaquin       |
| 3765      | Shuttle          | Diesel    | 1985     | 120    | Non-Tier | 2020       | 142    | Tier 4 Final | 900                  |                      |                     | 10                 | Tulare            |

## Description Vehicle Replacement

| Project # | Primary Function | Fuel Type | Baseline Yr | Old HP | Old Tier | New Eng Yr | New HP | New Tier     | Annual Usage (Hours) | Annual Usage (Miles) | Annual Usage (Fuel) | Project Life (Yrs) | Location (County) |
|-----------|------------------|-----------|-------------|--------|----------|------------|--------|--------------|----------------------|----------------------|---------------------|--------------------|-------------------|
| 3766      | Tractor          | Diesel    | 1982        | 78     | Non-Tier | 2019       | 71     | Tier 4 Final | 2000                 |                      |                     | 10                 | Fresno            |
| 3767      | Tractor          | Diesel    | 1992        | 62     | Non-Tier | 2019       | 74     | Tier 4 Final | 50                   |                      |                     | 10                 | Fresno            |
| 3768      | Tractor          | Diesel    | 1993        | 96     | Non-Tier | 2020       | 106    | Tier 4 Final | 2000                 |                      |                     | 10                 | Tulare            |
| 3769      | Tractor          | Diesel    | 1999        | 110    | Tier 1   | 2017       | 98     | Tier 4 Final | 1,200                |                      |                     | 10                 | Fresno            |
| 3770      | Tractor          | Diesel    | 1990        | 105    | Non-Tier | 2020       | 114    | Tier 4 Final | 1500                 |                      |                     | 10                 | Fresno            |
| 3771      | Tractor          | Diesel    | 1978        | 97     | Non-Tier | 2020       | 100    | Tier 4 Final | 600                  |                      |                     | 10                 | Fresno            |
| 3772      | Tractor          | Diesel    | 1984        | 78     | Non-Tier | 2019       | 80     | Tier 4 Final | 500                  |                      |                     | 10                 | Tulare            |
| 3773      | Tractor          | Diesel    | 2003        | 96     | Tier 1   | 2020       | 115    | Tier 4 Final | 500                  |                      |                     | 10                 | Tulare            |
| 3774      | Tractor          | Diesel    | 1979        | 72     | Non-Tier | 2020       | 62     | Tier 4 Final | 400                  |                      |                     | 10                 | Tulare            |
| 3775      | Tractor          | Diesel    | 1982        | 98     | Non-Tier | 2020       | 115    | Tier 4 Final | 720                  |                      |                     | 10                 | Madera            |
| 3776      | Tractor          | Diesel    | 1978        | 84     | Non-Tier | 2019       | 100    | Tier 4 Final | 1000                 |                      |                     | 10                 | Madera            |
| 3777      | Tractor          | Diesel    | 2002        | 114    | Tier 1   | 2020       | 125    | Tier 4 Final | 250                  |                      |                     | 10                 | Madera            |

This page intentionally blank.