



Landfill Information

Total Remaining Capacity = 2.7 million cubic yards

Total Capacity = 4.6 million cubic yards

Design Annual Usage = 50,000 cubic yards

Actual Annual Disposal Tonnage = 35,000 tons

50% from UVDS trucks

25% from direct self haul

25% from C&D sort line residuals

Remaining Life = 50+ years

4 years to new cell construction if C&D and Green/Wood Waste Recycling Operations are not moved = 4 years

12 years to new cell construction if C&D and Green/Wood Waste Recycling Operations are moved = 12 years



Landfill Information

Permitted Area = 79 acres

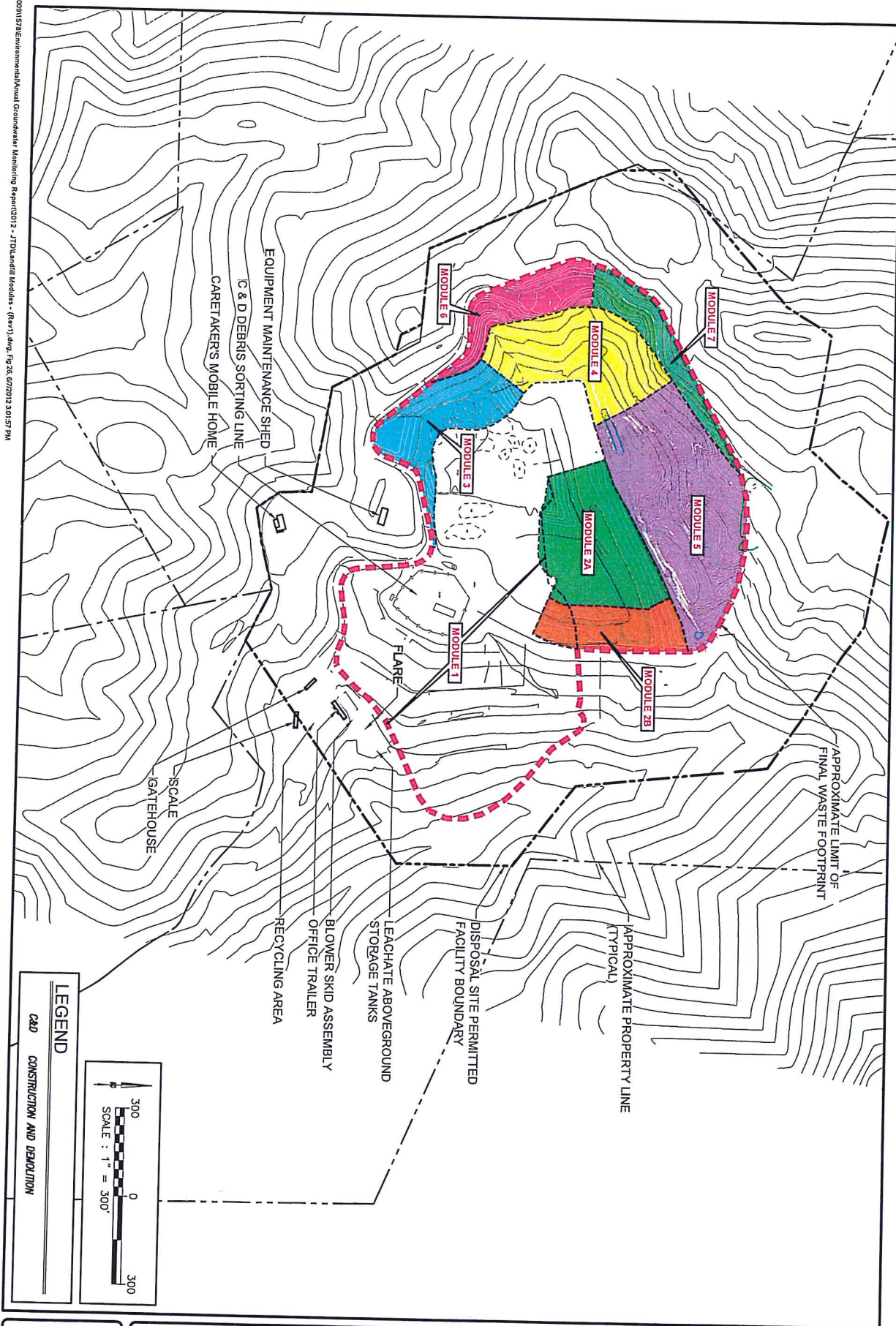
Disposal Area = 44 acres

Remaining Area to be Lined = 10 acres

Parcel Area = 180 acres

Daily Tonnage Limit = 600 tons per day (current 130 tons / day)

Daily Traffic Limit = 275 vehicle trips (current 190 trips / day)



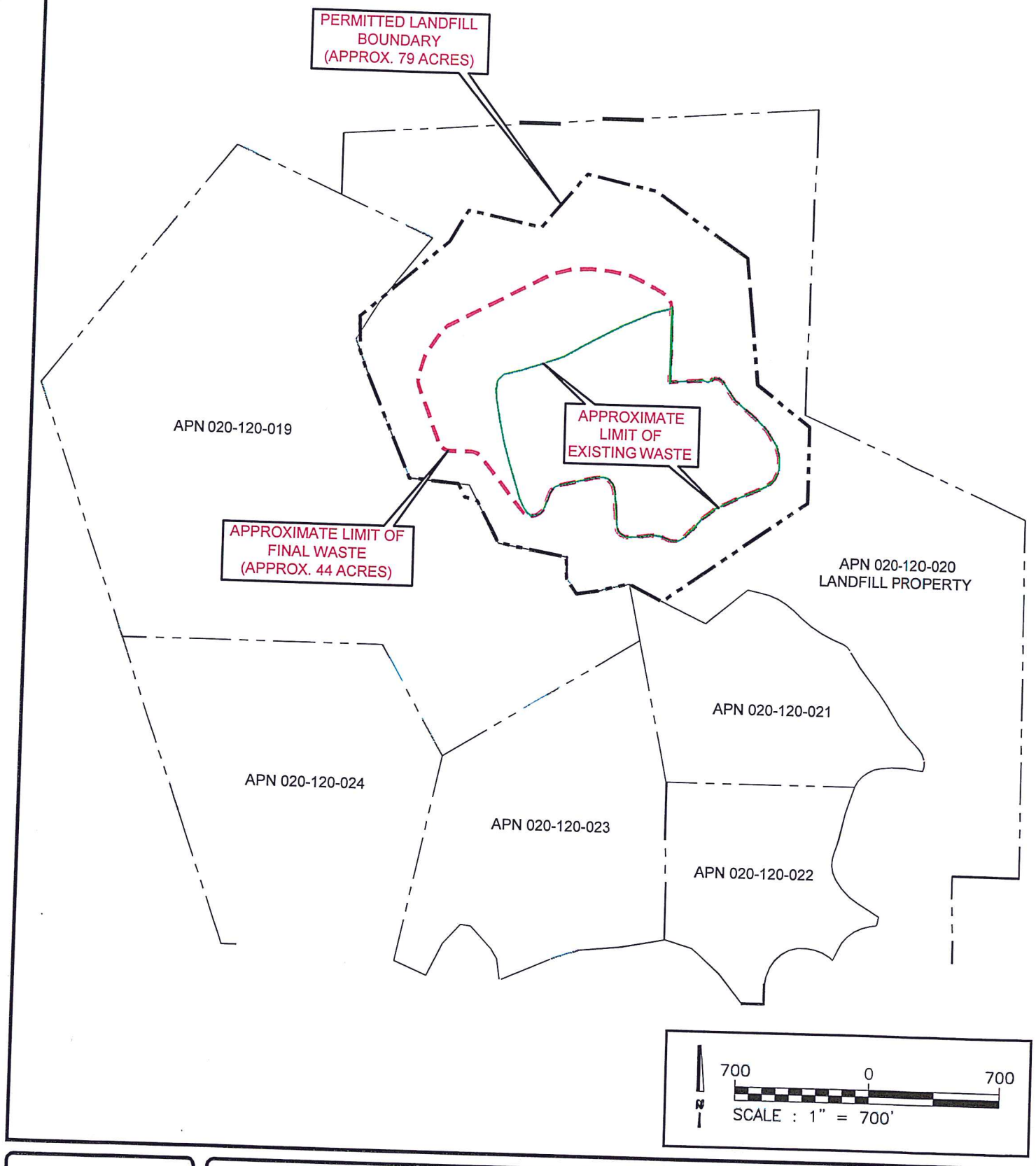
LANDFILL MODULES

CLOVER FLAT LANDFILL
 4380 SILVERADO TRAIL
 CALISTOGA, CALIFORNIA

FIGURE

26

09-1578



LANDFILL BOUNDARIES

CLOVER FLAT LANDFILL
4380 SILVERADO TRAIL
CALISTOGA, CALIFORNIA

FIGURE
5

09-1578



C&D Sort Line

Current CalGreen (State of California) Building Code requires 50% recycling of construction debris.

New CalGreen Building Code (1/2017) requires 65% recycling of construction debris.

Total Processed Tons 2008 - 2015 = 110,000 tons

2008 – 2015 Diversion 52%

25% wood waste
13% C&D fines
5% metals
4% mix recycle
3% cardboard
2% plastic
48% trash

March – August 2016 Diversion 60%

30% wood waste (5,000 tons/year)
13% C&D fines
7% metals
5% mix recycle
4% cardboard
1% plastic
40% trash



Direct Haul of Recyclable Material (No Sorting Required)

Total Processed Tons 2008 – 2015 = 50,000 tons

2008 – 2015 Diversion

52% green waste

26% dirt & concrete

15% wood waste (2015: 2,000 tons/year)

7% Alternative Daily Cover - Straw



Wood Gasification

Challenge:

- Large remotely located biomass plants have shut down
- C&D sort line produces 5,000 tons/year of wood waste
- Direct haul of wood from UVDS customers produces 2,000 tons/year
- C&D sort line needs to increase from 60% to 65% diversion to comply with CalGreen building code
- C&D sort line would need to be relocated

Benefits:

- 1 MW of renewable power
- 10,000 tons of wood waste per year capacity**
- Local wood recycling solution
- Production of soil amendment product biochar
- Solid waste facility permit and CUP in place



Landfill Gas Engine

Currently Producing 725 KW of renewable power

Full Capacity 848 KW

92% Uptime

Start date July 7, 2014

25 existing landfill gas wells

Adding 5 additional gas wells this year

Emissions strictly monitored by Bay Area Air Quality Management District (BAAQMD)

Monthly emissions self testing and reporting

Annual source test by BAAQMD

Cost to install \$3,000,000

Payback period 8+ years