



Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\rmmamaghani\Application Data\Urbemis\Version9a\Projects\CSU Grading Emissions.urb924

Project Name: 991-02 CSU Hayward Construction Emissions

Project Location: Bay Area Air District

~~Off-Road Vehicle Emissions Based on: version 1. Emission2007 v2.0 NOV 1 2000~~

Off-Road Vehicle Emissions Based on: OFFROAD2007

2010 TOTALS (lbs/day unmitigated)	10.21	61.54	39.01
-----------------------------------	-------	-------	-------

~~2022 TOTALS (lbs/day unmitigated)~~

6.17 38.84 ~~31.01~~

2022 TOTALS (lbs/day unmitigated)

4.85 31.01 29.47 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.11

2023 TOTALS (lbs/day unmitigated)

4.85 31.01 29.47 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.11

2024 TOTALS (lbs/day unmitigated)

4.85 31.01 29.47 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.11

2025 TOTALS (lbs/day unmitigated)

4.85 31.01 29.47 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.11

~~2026 TOTALS (lbs/day unmitigated)~~

4.84 30.97 29.26 0.00 40.69 ~~1.73~~ 42.42 8.50 1.59 10.09 5,570.27

2027 TOTALS (lbs/day unmitigated)

4.84 30.97 29.26 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.27

Construction Unmitigated Detail Report:

~~CONSTRUCTION EMISSION ESTIMATE Winter 10/2008 - 10/2009, Unmitigated~~

ROG      NOx      CO      SO2    PM10 Dust    PM10 Exhaust      PM10    PM2.5 Dust    PM2.5 Exhaust      PM2.5      CO2

**10/1/2008 2:12:36 PM**

Time Slice 7/1/2009-12/31/2009  
Active Days: 132


<u>7.76</u>	<u>46.72</u>	<u>29.24</u>	<u>0.00</u>	<u>40.68</u>	<u>3.10</u>	<u>43.78</u>	<u>8.50</u>	<u>11.35</u>	<u>4,166.37</u>
-------------	--------------	--------------	-------------	--------------	-------------	--------------	-------------	--------------	-----------------

10/1/2008 2:12:36 PM

Time Slice 1/1/2010-6/30/2010  
Active Days: 129

7.30      44.31      28.18      0.00      40.68      2.88      43.56      8.50      2.65      11.14      4,166.43

Mass Grading 07/01/2009-  
06/30/2030

0.00                        40.00      

~~1/1/2008 10:11:16 AM~~

10.21

61.54

~~10.21~~

Active Days: 66

Demolition 07/01/2009-  
01/01/2028

3.51

26.53

16.44

2.31



10/1/2008 2:12:36 PM

Time Slice 1/3/2011-12/30/2011  
Active Days: 260

9.54

58.17

37.67

0.00

40.69

4.17

44.85

12.33

5,569.26









10/1/2008 2:12:37 PM

Time Slice 1/1/2016-12/30/2016  
Active Days: 261

6.64

41.79

32.47

0.00

\_\_\_\_\_

2.65

10.94

10.94

10/1/2008 2:12:38 PM

Time Slice 1/2/2017-12/29/2017  
Active Days: 260

6.17

38.84

31.71

0.00

43.08

10.70

5,569.85

10/1/2008 2:12:38 PM

~~Time Slice 1/1/2018-12/31/2018~~  
Active Days: 261

5.69      36.04      31.01      **0.00**





**10/1/2008 2:12:38 PM**

Time Slice 1/1/2020-12/31/2020  
Active Days: 262

<u>4.87</u>	<u>31.10</u>	<u>29.86</u>	<u>0.00</u>	<u>40.69</u>	<u>1.74</u>	<u>42.42</u>	<u>8.50</u>	1.60	<u>10.10</u>	<u>5,569.96</u>
-------------	--------------	--------------	-------------	--------------	-------------	--------------	-------------	------	--------------	-----------------

10/1/2008 2:12:39 PM

Time Slice 1/1/2021-12/31/2021  
Active Days: 261

<u>4.85</u>	<u>31.01</u>	<u>29.47</u>	<u>0.00</u>	<b><u>40.69</u></b>	<u>1.73</u>	<u>42.42</u>	<b><u>8.50</u></b>	<u>1.59</u>	<u>10.09</u>	<u>5,570.11</u>
-------------	--------------	--------------	-------------	---------------------	-------------	--------------	--------------------	-------------	--------------	-----------------

Demolition 07/01/2009-  
01/01/2028

1.79	12.77	11.27	0.00	0.68	0.59	1.27	0.14		0.69	2,419.79
------	-------	-------	------	------	------	------	------	--	------	----------

**10/1/2008 2:12:39 PM**

Time Slice 1/3/2022-12/30/2022  
Active Days: 260

<u>4.85</u>	<u>31.01</u>	<u>29.47</u>	<u>0.00</u>	<b><u>40.69</u></b>	<u>42.42</u>	<u>10.09</u>	<u>5,570.11</u>
-------------	--------------	--------------	-------------	---------------------	--------------	--------------	-----------------

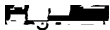
10/1/2008 2:12:39 PM

Time Slice 1/2/2023-12/29/2023  
Active Days: 260

<u>4.85</u>	<u>31.01</u>	<u>29.47</u>	<u>0.00</u>	<b><u>40.69</u></b>	<u>1.73</u>	<u>42.42</u>	<b><u>8.50</u></b>	<u>1.59</u>	<u>10.09</u>	<u>5,570.11</u>
-------------	--------------	--------------	-------------	---------------------	-------------	--------------	--------------------	-------------	--------------	-----------------

Demolition 07/01/2009-  
01/01/2028

1.79	12.77	11.27	0.00	0.68	0.59	1.27	0.14		0.69	2,419.79
------	-------	-------	------	------	------	------	------	--	------	----------



**10/1/2008 2:12:39 PM**

Time Slice 1/1/2024-12/31/2024

4.85

31.01

29.47

Active Days: 262

10/1/2008 2:12:39 PM

~~Time Since 7/1/2025-7/1/2025~~  
Active Days: 261

4.85

31.01

29.47

~~0.00~~









**10/1/2008 2:12:40 PM**

Time Slice 1/1/2029-12/31/2029  
Active Days: 261

3.06

18.23

18.09

0.00

40.01

41.15

9.41

3,150.41



Phase Assumptions

~~1.0.000 - Building 16/16/16 - 6/30/2030 - Default Building Construction Description~~

Building Volume Total (cubic feet): 1650000

Building Volume Daily (cubic feet): 1600

~~Off-Road Equipment:~~

~~1.0.000 - Building 16/16/16 - 6/30/2030 - Default Building Construction Description~~

3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

~~1.0.000 - Building 16/16/16 - 6/30/2030 - Default Building Construction Description~~

Total Acres Disturbed: 50

Maximum Daily Acreage Disturbed: 2

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

~~1.0.000 - Building 16/16/16 - 6/30/2030 - Default Building Construction Description~~

Acres to be Paved: 12.5

Off-Road Equipment:

1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day

~~1.0.000 - Building 16/16/16 - 6/30/2030 - Default Building Construction Description~~

~~2 Rollers (80 hp) operating at a 0.60 load factor for 8 hours per day~~

Phase: Building Construction 1/1/2009 - 6/30/2030 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day

~~2 Forklifts (145 hp) operating at a 0.3 load factor for 7 hours per day~~

~~1 Generator 600 (16 hp) operating at a 0.1 load factor for 8 hours per day~~

**10/1/2008 2:12:40 PM**

- 1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day
- 3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

~~Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250~~

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

~~Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250~~

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

~~Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250~~

Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

~~Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250~~

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: C:\Documents and Settings\rmmamaghani\Application Data\Urbemis\Version9a\Projects\CSU Grading Emissions.urb924

Project Name: 991-02 CSU Hayward Construction Emissions

Project Location: Bay Area Air District

~~Off-Road Vehicle Emissions Based on: version 1. Emission2007 v2.0 NOV 1 2000~~

Off-Road Vehicle Emissions Based on: OFFROAD2007

2010 TOTALS (lbs/day unmitigated)	10.21	61.54	39.01	0.00	40.69
-----------------------------------	-------	-------	-------	------	-------

~~2022 TOTALS (lbs/day unmitigated)~~

6.17 38.84 ~~31.01~~

2022 TOTALS (lbs/day unmitigated)

4.85 31.01 29.47 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.11

2023 TOTALS (lbs/day unmitigated)

4.85 31.01 29.47 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.11

2024 TOTALS (lbs/day unmitigated)

4.85 31.01 29.47 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.11

2025 TOTALS (lbs/day unmitigated)

4.85 31.01 29.47 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.11

~~2026 TOTALS (lbs/day unmitigated)~~

4.84 30.97 29.26 0.00 40.69 ~~1.72~~ 42.42 8.50 1.59 10.09 5,570.27

2027 TOTALS (lbs/day unmitigated)

4.84 30.97 29.26 0.00 40.69 1.73 42.42 8.50 1.59 10.09 5,570.27



Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

10/1/2008 2:11:57 PM

Time Slice 7/1/2009-12/31/2009  
Active Days: 132

7.76

46.72

29.24

0.00

40.68

3.10

43.78

11.35

4,166.37

10/1/2008 2:11:57 PM

Time Slice 1/1/2010-6/30/2010  
Active Days: 129

7.30	44.31	28.18	0.00	43.56
------	-------	-------	------	-------

~~17770-0000-1011-0010-1000-1000~~  
Active Days: 66

<u>10.21</u>	<u>61.54</u>	<u>39.01</u>	<u>0.00</u>	<u>40.69</u>	<u>4.38</u>	<u>45.07</u>	<u>6.50</u>	<u>12.53</u>	<u>5,569.12</u>
--------------	--------------	--------------	-------------	--------------	-------------	--------------	-------------	--------------	-----------------

Demolition 07/01/2009-01/01/2028	3.51	26.53	16.44	0.00	0.68	1.63	2.31	0.14	1.50	1.64	2,419.35
Demo On Road Diesel	0.04	0.63	0.20	0.00	0.00	0.02	0.03	0.00	0.02	0.02	89.47
Demo Worker Trips	0.04	0.07	1.16	0.00	0.00	0.00	0.01	0.00	0.00	0.00	

10/1/2008 2:11:58 PM

Time Slice 1/3/2011-12/30/2011  
Active Days: 260

9.54

58.17

Page: 9

**10/1/2008 2:11:58 PM**

Time Slice 1/2/2012-12/31/2012

Active Days: 261

**10/1/2008 2:11:58 PM**

Time Slice 1/1/2013-12/31/2013  
Active Days: 261

<u>8.33</u>	<u>51.65</u>	<u>35.33</u>	<u>0.00</u>	<u>40.69</u>	<u>3.51</u>	<u>44.20</u>	<b>8.50</b>	<u>11.73</u>	<u>5,569.53</u>
-------------	--------------	--------------	-------------	--------------	-------------	--------------	-------------	--------------	-----------------







**ፕላን/ፕሮጀክት/ፕላን ደብዳቤ**

Time Slice 1/1/2016-12/30/2016  
Active Days: 261

<u>6.64</u>	<u>41.79</u>	<u>32.47</u>	<u>0.00</u>	<u>40.69</u>	<u>43.34</u>	<u>10.94</u>	<u>5,569.80</u>
-------------	--------------	--------------	-------------	--------------	--------------	--------------	-----------------

**Ἰῶν ἰκλῶσῶν: ἰκλῶσῶν ἰκλῶσῶν**

Time Slice 1/2/2017-12/29/2017  
Active Days: 260

6.17

38.84

**ገቢዎች ለገንዘብ**

Time Slice 1/1/2018-12/31/2018  
Active Days: 261

<u>5.69</u>	<u>36.04</u>	<u>31.01</u>	<u>0.00</u>	<u>40.69</u>	<u>2.13</u>	<u>42.82</u>	<u>8.50</u>	<u>1.96</u>	<u>10.46</u>	<u>5,569.89</u>
-------------	--------------	--------------	-------------	--------------	-------------	--------------	-------------	-------------	--------------	-----------------

Demolition 07/01/2009-  
01/01/2028

2.04	15.03	12.06	0.00	0.68	0.73	1.41	0.14	0.67	0.81	2,419.69
------	-------	-------	------	------	------	------	------	------	------	----------

Demo On Road Diesel

0.02
------

**Ἰστορικὸς Ἰατρικὸς Πίνακας**

Time Slice 1/1/2019-12/31/2019

Active Days: 261

~~10/17/2008 2:12:00 PM~~

Time Slice 1/1/2020-12/31/2020  
Active Days: 262

4.87

31.10

29.86

0.00

42.42

10/17/2008 2:12:00 PM

Time Slice 1/1/2021-12/31/2021  
Active Days: 261

4.85

31.01



~~10/17/2008 2:12:00 PM~~

Time Slice 1/3/2022-12/30/2022  
Active Days: 260

4.85

31.01

29.47

0.00

~~██████████~~

42.42

10.09

5,570.11

~~10/17/2008 2:12:00 PM~~

Time Slice 1/2/2023-12/29/2023  
Active Days: 260

4.85      31.01      29.47      0.00      **40.69**      1.73      42.42      **8.50**      1.59      10.09      5,570.11

Demolition 07/01/2009-  
01/01/2028

1.79      12.77      11.27      0.00      0.68      0.59      1.27           0.69      2,419.79



10/17/2008 2:12:00 PM

Time Slice 1/1/2024-12/31/2024  
Active Days: 262

4.85

31.01

29.47

0.00

42.42

~~10/17/2008 2:12:00 PM~~

~~Time Since 7/1/2025-7/1/2025~~  
Active Days: 261

4.85

31.01

29.47

0.00

42.42

10/1/2008 2:12:01 PM

Time Slice 1/1/2026-12/31/2026  
Active Days: 261

4.84

30.97

29.26





10/1/2008 2:12:01 PM

Time Slice 1/1/2029-12/31/2029  
Active Days: 261

3.06      18.23      18.09      0.00





Phase Assumptions

~~Building Volume Total (cubic feet): 1650000~~

~~Building Volume Daily (cubic feet): 1600~~

~~Off-Road Equipment:~~

~~3 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day~~

~~Total Acres Disturbed: 50~~

~~Maximum Daily Acreage Disturbed: 2~~

~~Fugitive Dust Level of Detail: Default~~

~~20 lbs per acre-day~~

~~On Road Truck Travel (VMT): 0~~

~~Off-Road Equipment:~~

~~Acres to be Paved: 12.5~~

~~Off-Road Equipment:~~

~~1 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day~~

Phase: Building Construction 1/1/2009 - 6/30/2030 - Default Building Construction Description

Off-Road Equipment:

1 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day

~~2 Forklifts (145 hp) operating at a 0.3 load factor for 7 hours per day~~

~~1 Generator 300 (10 hp) operating at a 0.1 load factor for 8 hours per day~~

**10/1/2008 2:12:02 PM**

1 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

3 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

~~Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250~~

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

~~Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250~~

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

~~Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250~~

Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

~~Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250~~

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250