

The City of Woodland

Detail Report - Control (Private)

Transitional Inventory 2014

**Description:**

**Industry:** 92 - Public Administration

**Address:** 42929 County Road  
Woodland, California US

**Contact:**  
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**Reporting Information**

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Reporting Protocol: General Reporting Protocol 2.0 and associated updates and clarifications

GWP Standard: SAR

Base Year:

Consolidation Methodology: Operational Control Only

Status: TCR Accepted

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**Verification Information**

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Verification Body: Cameron-Cole, LLC

Level of Assurance: Reasonable

**Entity Emissions | Total in metric tons of CO<sub>2</sub>e**

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t of CO <sub>2</sub> e)	N <sub>2</sub> O (t of CO <sub>2</sub> e)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t of CO <sub>2</sub> e)	SF <sub>6</sub> (t of CO <sub>2</sub> e)
Stationary Combustion	612.311078	609.410018	0.493832	2.407228	0	0	0	0
Mobile Combustion	730.573264	730.573264	0	0	0	0	0	0
Process	571.423	0	0	571.423	0	0	0	0
<b>Total</b>	1,914.307342	1,339.983282	0.493832	573.830228	0	0	0	0
<b>NetTotal</b>	1,914.307342	1,339.983282	0.493832	573.830228	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t of CO <sub>2</sub> e)	N <sub>2</sub> O (t of CO <sub>2</sub> e)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t of CO <sub>2</sub> e)	SF <sub>6</sub> (t of CO <sub>2</sub> e)
Purchased Electricity - Market Based	3,011.362128	2,994.165389	4.169508	13.027231	0	0	0	0
<b>Total</b>	3,011.362128	2,994.165389	4.169508	13.027231	0	0	0	0
<b>NetTotal</b>	3,011.362128	2,994.165389	4.169508	13.027231	0	0	0	0

Optional - Optional Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t of CO <sub>2</sub> e)	N <sub>2</sub> O (t of CO <sub>2</sub> e)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t of CO <sub>2</sub> e)	SF <sub>6</sub> (t of CO <sub>2</sub> e)
Scope 1	375.343287	375.343287	0	0	0	0	0	0
<b>Total</b>	375.343287	375.343287	0	0	0	0	0	0
<b>NetTotal</b>	375.343287	375.343287	0	0	0	0	0	0

## Entity Emissions | Total in metric tons of gas

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	612.311078	609.410018	0.023516	0.007765	0	0	0	0
Mobile Combustion	730.573264	730.573264	0	0	0	0	0	0
Process	571.423	0	0	1.8433	0	0	0	0
<b>Total</b>	<b>1,914.307342</b>	<b>1,339.983282</b>	<b>0.023516</b>	<b>1.851065</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	3,011.362128	2,994.165389	0.198548	0.042023	0	0	0	0
<b>Total</b>	<b>3,011.362128</b>	<b>2,994.165389</b>	<b>0.198548</b>	<b>0.042023</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Optional - Optional Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Scope 1	375.343287	375.343287	0	0	0	0	0	0
<b>Total</b>	<b>375.343287</b>	<b>375.343287</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Simplified Estimation Methods (SEMs)

	Total Estimated CO <sub>2</sub> e (t)	Total Emissions (t of CO <sub>2</sub> e)	Estimated CO <sub>2</sub> e as a Percentage of Total*
Location Based	0	0	N/A
Market Based	0	4,925.669469	0%

\*Total based on scope 1, scope 2 & biomass emissions

## Facility Emissions | Charles Brooks Swim Center

Equity share - 100% | Entity controls the facility emissions - Yes

155 North West Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	441.317855	438.853954	0.007444	0.007444	0	0	0	0
<b>Total</b>	441.317855	438.853954	0.007444	0.007444	0	0	0	0

## Source Emissions | Charles Brooks Natural Gas Usage

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO <sub>2</sub> e (t)
Stationary Combustion	CO <sub>2</sub>	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	82,709 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	438.853954	438.853954
Stationary Combustion	CH <sub>4</sub>	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	82,709 therm	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.007444	0.15632
Stationary Combustion	N <sub>2</sub> O	Natural Gas	Commercial	Boilers	Emission Factor	No		Unspecified (Weighted U.S. Average)	82,709 therm	0.9 g/MMBtu	2015 Default Emission Factors - Table #12.8	0.007444	2.307581

## Facility Emissions | City Hall

Equity share - 100% | Entity controls the facility emissions - Yes

300 First Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
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Stationary Combustion	10.288106	10.261804	0.000967	0.000019	0	0	0	0
<b>Total</b>	10.288106	10.261804	0.000967	0.000019	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	41.495363	41.258399	0.002736	0.000579	0	0	0	0
<b>Total</b>	41.495363	41.258399	0.002736	0.000579	0	0	0	0

## Source Emissions | City Hall Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO <sub>2</sub> e (t)
Purchased Electricity	CO <sub>2</sub>	WECC California	All	Unspecified Technology	Emission Factor	No		All	211,711 kWh	429.638 lb/MWh	Custom Emission Factor	41.258399	41.258399
Purchased Electricity	CH <sub>4</sub>	WECC California	All	Unspecified Technology	Emission Factor	No		All	211,711 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.002736	0.057454
Purchased Electricity	N <sub>2</sub> O	WECC California	All	Unspecified Technology	Emission Factor	No		All	211,711 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000579	0.17951

## Source Emissions | City Hall Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,934 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	10.261804	10.261804
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,934 therm	5 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000967	0.020307
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,934 therm	0.1 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000019	0.005995

## Facility Emissions | City Hall Annex Building

Equity share - 100% | Entity controls the facility emissions - Yes

520 Court Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion	2.239552	2.233826	0.000211	0.000004	0	0	0	0
<b>Total</b>	2.239552	2.233826	0.000211	0.000004	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based	6.367061	6.330701	0.00042	0.000089	0	0	0	0
<b>Total</b>	6.367061	6.330701	0.00042	0.000089	0	0	0	0

## Source Emissions | City Hall Annex Building Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	421 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	2.233826	2.233826
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	421 therm	5 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000211	0.004421
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	421 therm	0.1 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000004	0.001305

## Source Emissions | City Hall Annex Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	WECC California	All	Unspecified Technology	Emission Factor	No		All	32,485 kWh	429.638 lb/MWh	Custom Emission Factor	6.330701	6.330701
Purchased Electricity	CH4	WECC California	All	Unspecified Technology	Emission Factor	No		All	32,485 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.00042	0.008816
Purchased Electricity	N2O	WECC California	All	Unspecified Technology	Emission Factor	No		All	32,485 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000089	0.027544

## Facility Emissions | Fire Station 1

Equity share - 100% | Entity controls the facility emissions - Yes

532 Court Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	6.24521	6.229244	0.000587	0.000012	0	0	0	0
<b>Total</b>	6.24521	6.229244	0.000587	0.000012	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	14.46931	14.386682	0.000954	0.000202	0	0	0	0
<b>Total</b>	14.46931	14.386682	0.000954	0.000202	0	0	0	0

## Source Emissions | Fire Station 1 Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	WECC California	All	Unspecified Technology	Emission Factor	No		All	73,823 kWh	429.638 lb/MWh	Custom Emission Factor	14.386682	14.386682
Purchased Electricity	CH4	WECC California	All	Unspecified Technology	Emission Factor	No		All	73,823 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000954	0.020034
Purchased Electricity	N2O	WECC California	All	Unspecified Technology	Emission Factor	No		All	73,823 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000202	0.062595

## Source Emissions | Fire Station 1 Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,174 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	6.229244	6.229244
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,174 therm	5 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000587	0.012327
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,174 therm	0.1 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000012	0.003639

## Facility Emissions | Fire Station 2

Equity share - 100% | Entity controls the facility emissions - Yes

1619 West Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	5.372796	5.35906	0.000505	0.00001	0	0	0	0
<b>Total</b>	5.372796	5.35906	0.000505	0.00001	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	8.904869	8.854017	0.000587	0.000124	0	0	0	0
<b>Total</b>	8.904869	8.854017	0.000587	0.000124	0	0	0	0

## Source Emissions | Fire Station 2 Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	WECC California	All	Unspecified Technology	Emission Factor	No		All	45,433 kWh	429.638 lb/MWh	Custom Emission Factor	8.854017	8.854017
Purchased Electricity	CH4	WECC California	All	Unspecified Technology	Emission Factor	No		All	45,433 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000587	0.01233
Purchased Electricity	N2O	WECC California	All	Unspecified Technology	Emission Factor	No		All	45,433 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000124	0.038523

## Source Emissions | Fire Station 2 Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,010 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	5.35906	5.35906
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,010 therm	5 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000505	0.010605
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	1,010 therm	0.1 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.00001	0.003131

## Facility Emissions | Fire Station 3

Equity share - 100% | Entity controls the facility emissions - Yes

1550 Springlake Court, Woodland, California, 95776, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	28.231117	28.158942	0.002654	0.000053	0	0	0	0
<b>Total</b>	28.231117	28.158942	0.002654	0.000053	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	25.33516	25.190481	0.00167	0.000354	0	0	0	0
<b>Total</b>	25.33516	25.190481	0.00167	0.000354	0	0	0	0

## Source Emissions | Fire Station 3 Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	WECC California	All	Unspecified Technology	Emission Factor	No		All	129,261 kWh	429.638 lb/MWh	Custom Emission Factor	25.190481	25.190481
Purchased Electricity	CH4	WECC California	All	Unspecified Technology	Emission Factor	No		All	129,261 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.00167	0.035079
Purchased Electricity	N2O	WECC California	All	Unspecified Technology	Emission Factor	No		All	129,261 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000354	0.109601

## Source Emissions | Fire Station 3 Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,307 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	28.158942	28.158942
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,307 therm	5 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.002654	0.055724
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	5,307 therm	0.1 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000053	0.016452

## Facility Emissions | Fleet

Equity share - 100% | Entity controls the facility emissions - Yes

655 Pioneer Avenue, Woodland, California, 95695, US

Diesel fuel emissions for fleet reported optionally as the diesel fleet is housed at the same facility with the same fuel type as the omitted diesel backup generators.

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Mobile Combustion	730.573264	730.573264	0	0	0	0	0	0
<b>Total</b>	730.573264	730.573264	0	0	0	0	0	0

Optional - Optional Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Scope 1	375.343287	375.343287	0	0	0	0	0	0
<b>Total</b>	375.343287	375.343287	0	0	0	0	0	0

## Source Emissions | Facility Level Reporting

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Scope 1 (Optional)	CO2				PreCalculated	No			N/A	N/A	N/A	375.343287	375.343287

## Source Emissions | Gasoline

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Mobile Combustion	CO2	Motor Gasoline	Gasoline Passenger Cars	Cars (Model Years 1984-1993)	Emission Factor	No		All	83,208.8 gal	8.78 kg/gal	2015 Default Emission Factors - Table #13.1	730.573264	730.573264
Mobile Combustion	CH4	Motor Gasoline	Gasoline Passenger Cars	Cars (Model Years 1984-1993)	Not Reporting	No		All	0	0.0704 g/mi	2015 Default Emission Factors - Table #13.5	0	0
Mobile Combustion	N2O	Motor Gasoline	Gasoline Passenger Cars	Cars (Model Years 1984-1993)	Not Reporting	No		All	0	0.0647 g/mi	2015 Default Emission Factors - Table #13.5	0	0

## Facility Emissions | Library

Equity share - 100% | Entity controls the facility emissions - Yes

250 First Street, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	14.432075	14.395178	0.001357	0.000027	0	0	0	0
<b>Total</b>	14.432075	14.395178	0.001357	0.000027	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	27.670696	27.51268	0.001824	0.000386	0	0	0	0
<b>Total</b>	27.670696	27.51268	0.001824	0.000386	0	0	0	0

## Source Emissions | Library Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	WECC California	All	Unspecified Technology	Emission Factor	No		All	141,177 kWh	429.638 lb/MWh	Custom Emission Factor	27.51268	27.51268
Purchased Electricity	CH4	WECC California	All	Unspecified Technology	Emission Factor	No		All	141,177 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.001824	0.038313
Purchased Electricity	N2O	WECC California	All	Unspecified Technology	Emission Factor	No		All	141,177 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000386	0.119704

## Source Emissions | Library Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,713 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	14.395178	14.395178
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,713 therm	5 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.001357	0.028487
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	2,713 therm	0.1 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000027	0.00841

## Facility Emissions | Municipal Service Center

Equity share - 100% | Entity controls the facility emissions - Yes

655 North Pioneer Avenue, Woodland, California, 95776, US

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	46.881444	46.613722	0.003091	0.000654	0	0	0	0
<b>Total</b>	46.881444	46.613722	0.003091	0.000654	0	0	0	0

## Source Emissions | Municipal Service Center Electricity

The 2013 PG&E utility specific emission factor (429.638) was used as the 2014 utility specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO <sub>2</sub> e (t)
Purchased Electricity	CO <sub>2</sub>	WECC California	All	Unspecified Technology	Emission Factor	No		All	239,191 kWh	429.638 lb/MWh	Custom Emission Factor	46.613722	46.613722
Purchased Electricity	CH <sub>4</sub>	WECC California	All	Unspecified Technology	Emission Factor	No		All	239,191 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.003091	0.064912
Purchased Electricity	N <sub>2</sub> O	WECC California	All	Unspecified Technology	Emission Factor	No		All	239,191 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.000654	0.20281

## Facility Emissions | Parks, Cemetary, Pools, and Ballfield

Equity share - 100% | Entity controls the facility emissions - Yes

2001 East Street, Woodland, California, 95776, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	0.085114	0.084896	0.000008	0	0	0	0	0
<b>Total</b>	0.085114	0.084896	0.000008	0	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	95.9673	95.419267	0.006327	0.001339	0	0	0	0
<b>Total</b>	<b>95.9673</b>	<b>95.419267</b>	<b>0.006327</b>	<b>0.001339</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### Source Emissions | Parks Misc. Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO <sub>2</sub> e (t)
Purchased Electricity	CO <sub>2</sub>	WECC California	All	Unspecified Technology	Emission Factor	No		All	489,629 kWh	429.638 lb/MWh	Custom Emission Factor	95.419267	95.419267
Purchased Electricity	CH <sub>4</sub>	WECC California	All	Unspecified Technology	Emission Factor	No		All	489,629 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.006327	0.132876
Purchased Electricity	N <sub>2</sub> O	WECC California	All	Unspecified Technology	Emission Factor	No		All	489,629 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.001339	0.415157

### Source Emissions | Parks Misc. Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO <sub>2</sub> e (t)
Stationary Combustion	CO <sub>2</sub>	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	16 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	0.084896	0.084896
Stationary Combustion	CH <sub>4</sub>	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	16 therm	5 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000008	0.000168
Stationary Combustion	N <sub>2</sub> O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	16 therm	0.1 g/MMBtu	2015 Default Emission Factors - Table #12.9	0	0.00005

## Facility Emissions | Police Department

Equity share - 100% | Entity controls the facility emissions - Yes

1000 Lincoln Avenue, Woodland, California, 95695, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Stationary Combustion	85.283827	85.065792	0.008016	0.00016	0	0	0	0
<b>Total</b>	85.283827	85.065792	0.008016	0.00016	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	179.465665	178.440805	0.011833	0.002504	0	0	0	0
<b>Total</b>	179.465665	178.440805	0.011833	0.002504	0	0	0	0

## Source Emissions | Police Department Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	WECC California	All	Unspecified Technology	Emission Factor	No		All	915,641 kWh	429.638 lb/MWh	Custom Emission Factor	178.440805	178.440805
Purchased Electricity	CH4	WECC California	All	Unspecified Technology	Emission Factor	No		All	915,641 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.011833	0.248487
Purchased Electricity	N2O	WECC California	All	Unspecified Technology	Emission Factor	No		All	915,641 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.002504	0.776373

## Source Emissions | Police Department Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	16,032 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	85.065792	85.065792
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	16,032 therm	5 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.008016	0.168336
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	16,032 therm	0.1 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.00016	0.049699

## Facility Emissions | Traffic Signals & Lights

Equity share - 100% | Entity controls the facility emissions - Yes

655 N. Pioneer Ave, Woodland, California, 95776, US

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	336.815667	334.892241	0.022207	0.0047	0	0	0	0
<b>Total</b>	336.815667	334.892241	0.022207	0.0047	0	0	0	0

## Source Emissions | Traffic Signals & Lights Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO <sub>2</sub> e (t)
Purchased Electricity	CO <sub>2</sub>	WECC California	All	Unspecified Technology	Emission Factor	No		All	1,718,447 kWh	429.638 lb/MWh	Custom Emission Factor	334.892241	334.892241
Purchased Electricity	CH <sub>4</sub>	WECC California	All	Unspecified Technology	Emission Factor	No		All	1,718,447 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.022207	0.466352
Purchased Electricity	N <sub>2</sub> O	WECC California	All	Unspecified Technology	Emission Factor	No		All	1,718,447 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.0047	1.457073

## Facility Emissions | Water Pollution Control Facility

Equity share - 100% | Entity controls the facility emissions - Yes

42929 County Road 24, Woodland, California, 95776, US

Scope 1 - Direct Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Process	571.423	0	0	1.8433	0	0	0	0
<b>Total</b>	571.423	0	0	1.8433	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO <sub>2</sub> e (t)	CO <sub>2</sub> (t)	CH <sub>4</sub> (t)	N <sub>2</sub> O (t)	HFC (t of CO <sub>2</sub> e)	PFC (t of CO <sub>2</sub> e)	NF <sub>3</sub> (t)	SF <sub>6</sub> (t)
Purchased Electricity - Market Based	1,095.92183	1,089.663439	0.072257	0.015294	0	0	0	0
<b>Total</b>	1,095.92183	1,089.663439	0.072257	0.015294	0	0	0	0

### Source Emissions | Process N2O Emissions from Centralized WWTP with nitrification/denitrification

Used equation 10.7 from LGOP V1.1

Used Population estimates from California Department of Finance E-1 sheet

PTotal=57,525

$(57,525 \times 1.25 \times 7 \times 0.000001) = 0.5033 \times \text{GWP of 310} = 156.023$

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO <sub>2</sub> e (t)
Process	N2O	N/A	All	Unspecified Technology	PreCalculated	No		N/A	N/A	N/A	N/A	0.5033	156.023

### Source Emissions | Process N2O Emissions from Effluent Discharge to Receiving Aquatic Environments

Emissions from effluent discharge to receiving aquatic environments.

Used equation 10.10 from LGOP V1.1

Used Population estimates from California Department of Finance E-1 sheet

$(57,525 \times 1.25) \text{ persons} \times (0.026 \text{ kg N/person/day} - 0.05 \text{ kg N/kg BOD}_5 \times 0.09 \text{ kg BOD}_5/\text{person/day}) \times 0.005 \text{ kg N}_2\text{O-N/kg sewage-N produced} \times 44/28 \times (1 - 0.07) \times 365.25 \text{ day/year} \times 10^{-3} \text{ MT/kg} = 1.34 \times \text{GWP of 310} = 415.4$

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO <sub>2</sub> e (t)
Process	N2O	N/A	All	Unspecified Technology	PreCalculated	No		N/A	N/A	N/A	N/A	1.34	415.4

## Source Emissions | WPCF Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	WECC California	All	Unspecified Technology	Emission Factor	No		All	5,591,437 kWh	429.638 lb/MWh	Custom Emission Factor	1,089.663439	1,089.663439
Purchased Electricity	CH4	WECC California	All	Unspecified Technology	Emission Factor	No		All	5,591,437 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.072257	1.517405
Purchased Electricity	N2O	WECC California	All	Unspecified Technology	Emission Factor	No		All	5,591,437 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.015294	4.740986

## Facility Emissions | Wells and Stormwater Electricity

Equity share - 100% | Entity controls the facility emissions - Yes

655 N. Pioneer Avenue, Woodland, California, 95695, US

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based	928.41393	923.112113	0.061213	0.012956	0	0	0	0
<b>Total</b>	<b>928.41393</b>	<b>923.112113</b>	<b>0.061213</b>	<b>0.012956</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Source Emissions | Wells and Sormwater Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	WECC California	All	Unspecified Technology	Emission Factor	No		All	4,736,805 kWh	429.638 lb/MWh	Custom Emission Factor	923.112113	923.112113
Purchased Electricity	CH4	WECC California	All	Unspecified Technology	Emission Factor	No		All	4,736,805 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.061213	1.285475
Purchased Electricity	N2O	WECC California	All	Unspecified Technology	Emission Factor	No		All	4,736,805 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.012956	4.016343

## Facility Emissions | Woodland Community and Senior Center

Equity share - 100% | Entity controls the facility emissions - Yes

2001 East Street, Woodland, California, 95776, US

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion	18.815425	18.767322	0.001769	0.000035	0	0	0	0
<b>Total</b>	18.815425	18.767322	0.001769	0.000035	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based	203.653833	202.490844	0.013427	0.002842	0	0	0	0
<b>Total</b>	203.653833	202.490844	0.013427	0.002842	0	0	0	0

## Source Emissions | Community/Senior Center Electricity

Using the 2013 PG&E emission factor (429.638) as the 2014 utility-specific emission factor is not available.

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Purchased Electricity	CO2	WECC California	All	Unspecified Technology	Emission Factor	No		All	1,039,050 kWh	429.638 lb/MWh	Custom Emission Factor	202.490844	202.490844
Purchased Electricity	CH4	WECC California	All	Unspecified Technology	Emission Factor	No		All	1,039,050 kWh	28.49 lb/GWh	2015 Default Emission Factors - Table #14.1	0.013427	0.281977
Purchased Electricity	N2O	WECC California	All	Unspecified Technology	Emission Factor	No		All	1,039,050 kWh	6.03 lb/GWh	2015 Default Emission Factors - Table #14.1	0.002842	0.881012

## Source Emissions | Community/Senior Center Natural Gas

Activity Type	Gas	Fuel Type	End Use Sector	Technology	Calculation Method	SEM	Additional Information	Fuel	Fuel Quantity	Emission Factor (EF)	EF Reference	Gas Quantity	CO2e (t)
Stationary Combustion	CO2	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	3,537 therm	53.06 kg/MMBtu	2015 Default Emission Factors - Table #12.1	18.767322	18.767322
Stationary Combustion	CH4	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	3,537 therm	5 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.001769	0.037139
Stationary Combustion	N2O	Natural Gas	Commercial	Unspecified Technology	Emission Factor	No		Unspecified (Weighted U.S. Average)	3,537 therm	0.1 g/MMBtu	2015 Default Emission Factors - Table #12.9	0.000035	0.010965