Appendix A

Revision to Motor Vehicles Emissions Budgets

Technical Support Document

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ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
DAQ	Clark County Department of Air Quality
DMV	(Nevada) Department of Motor Vehicles
EPA	U.S. Environmental Protection Agency
ERC	Emissions Reduction Credit
HPMS	Highway Performance Monitoring System
I/M	inspection/maintenance
km	kilometer
MOVES2014a	Motor Vehicle Emissions Simulator (model)
MVEB	moving vehicle emissions budget
NDOT	Nevada Department of Transportation
NEI	National Emissions Inventory
psi	pounds per square inch
RTC	Regional Transportation Commission of Southern Nevada
SMOKE	Sparse Matrix Operator Kernel Emissions (model)
tpd	tons per day
tpy	tons per year
VMT	vehicle miles traveled
VPOP	vehicle population

1.0 INTRODUCTION

The purpose of this document is to provide and document technical details of the analyses to support the revision to Motor Vehicle Emissions Budgets (MVEBs) in the *Ozone Redesignation Request and Maintenance Plan: Clark County, Nevada* (March 2011), developed for the 1997 8-hour ozone standard. The document includes a detailed description of the approach used to develop on-road mobile sources emissions inventories, and provides updated emissions estimates for other source categories used in developing the revised MVEBs, i.e., (non-road mobile, point, nonpoint, commercial aviation, and federal aviation). These updated emissions estimates replace those in Appendix A of the ozone redesignation request and maintenance plan.

2.0 ON-ROAD MOBILE SOURCE EMISSIONS

The Clark County Department of Air Quality (DAQ) developed updated on-road mobile source emissions estimates using the SMOKE-MOVES approach, which incorporates Motor Vehicle Emissions Simulator (MOVES2014a) model emission rates, Sparse Matrix Operator Kernel Emissions (SMOKE) modeling, RTC travel demand modeling, and Highway Performance Monitoring System (HPMS) data from the Nevada Department of Transportation (NDOT). On-road emissions were generated for 2008, 2015, and 2022, the same years as in the 2011 ozone maintenance plan. DAQ selected the SMOKE-MOVES approach to be consistent with EPA's approach in developing the National Emissions Inventory (NEI), as well as with EPA's modeling platform. This approach is also consistent with the one used in Clark County's photochemical modeling applications.

Emissions factors were generated using EPAs most up-to-date mobile emissions model, MOVES2014a which includes emissions from 13 on-road mobile source types (Table 2-1) and four roadway types. MOVES2014a can also estimate emissions factors from parked vehicle processes and from on-network vehicle moving processes.

Table 2-1. MOVES Source Use Type

Source Type ID	MOVES Source Type Name
11	Motorcycle
21	Passenger Car
31	Passenger Truck
32	Light Commercial Truck
41	Intercity Bus
42	Transit Bus
43	School Bus
51	Refuse Truck
52	Single Unit Short-haul Truck
53	Single Unit Long-haul Truck
54	Motor Home
61	Combination Short-haul Truck
62	Combination Long-haul Truck

Table 2-2 maps HPMS road types to MOVES road types.

Table 2-2. Map of HPMS Road Types to MOVES Road Type

HPMS Road Type	MOVES Road Type
11: Rural Principal Arterial – Interstate	2: Rural Restricted Access
13: Rural Principal Arterial - Other	3: Rural Unrestricted Access
15: Rural Minor Arterial	
17: Rural Major Collector	
19: Rural Minor Collector	

HPMS Road Type	MOVES Road Type
21: Rural Local System	
23: Urban Principal Arterial – Interstate	4: Urban Restricted Access
25: Urban Principal Arterial – Other Freeways	
27: Urban Principal Arterial – Other	5: Urban Unrestricted Access
29: Urban Minor Arterial	
31: Urban Collector	
33: Urban Local System	

2.1 SMOKE-MOVES Modeling Approach

SMOKE is an emission-generating and processing model used in developing hourly gridded emissions for photochemical modeling. EPA has integrated MOVES model with SMOKE emissions model with a set of integration software tools that allows the MOVES emission rate mode to automatically run numerous iterations to generate the most accurate modeling results. The SMOKE-MOVES approach combines vehicle activity data, such as vehicle miles traveled (VMT) and vehicle population (VPOP), with motor vehicle emissions rates generated by MOVES to estimate gridded hourly emissions. SMOKE-MOVES tool scripts run MOVES to produce emission factors by temperature and speed for selected representative counties; the SMOKE model uses appropriate emissions rates for each county, hourly temperature, Source Classification Code, and speed bin, then multiplies the emissions rates by the activity data to generate emissions data. When the MOVES model runs as a part of the SMOKE-MOVES tool, it runs for all emissions processes, including on-road and off-network emissions processes for select pollutants.

The SMOKE-MOVES integrated approach takes advantage of gridded hourly temperature and humidity information from the Weather Research and Forecasting (WRF) meteorology model used for air quality modeling. DAQ has developed gridded meteorological fields with 4 kilometer (km) grid spacing for the summer months of 2011 for photochemical modeling. The gridded meteorology data cover all of Clark County and were used for the development of on-road mobile source emissions estimates.

2.2 MOVES and SMOKE Inputs

DAQ developed up-to-date county-specific MOVES and SMOKE input data for 2008, 2015, and the future year 2022. The updated input data was then used to generate MOVES County Databases for Clark County that included vehicle activity data, fleet age distribution, fuel and inspection and maintenance (I/M) program parameters.

2.2.1 Clark County Vehicle Classification Study

Vehicle classification is a crucial component for developing on-road emission inventories. As such, DAQ recently conducted a vehicle classification study. This study produced new VMT temporal distribution and VMT mix profiles that were used in the development of revised on-road mobile source emissions estimates. The study was based primarily on two recent data

sources: traffic monitor data for all sites in Clark County for 2014-2016 from the NDOT and a license plate survey that captured license plates on high-resolution video.
There are over 1,000 traffic counters on roadways in Clark County, most used for HPMS reporting. Some of the traffic count data includes vehicle classification information. A big challenge for the automatic traffic counter is distinguishing between passenger car and light-duty trucks due to their similar chassis. The importance of distinguishing between passenger car and light-duty trucks is crucial for developing accurate emission estimates. The use of high-resolution video solved this dilemma by capturing license plate numbers. The license plate numbers were matched to Vehicle Identification Numbers, which were decoded to obtain vehicle attributes.

2.2.1.1 VMT mix profiles

Figure 2-1 shows VMT mix profiles by MOVES road type from the study. Rural Restricted Access (Road Type 2) has the highest amount of heavy-duty VMT (24%), which decreases from left to right in the figure, i.e., from Road Type 2 to Rural Unrestricted Access (Road Type 3) to Urban Restricted Access (Road Type 4) to Urban Unrestricted (Road Type 5).

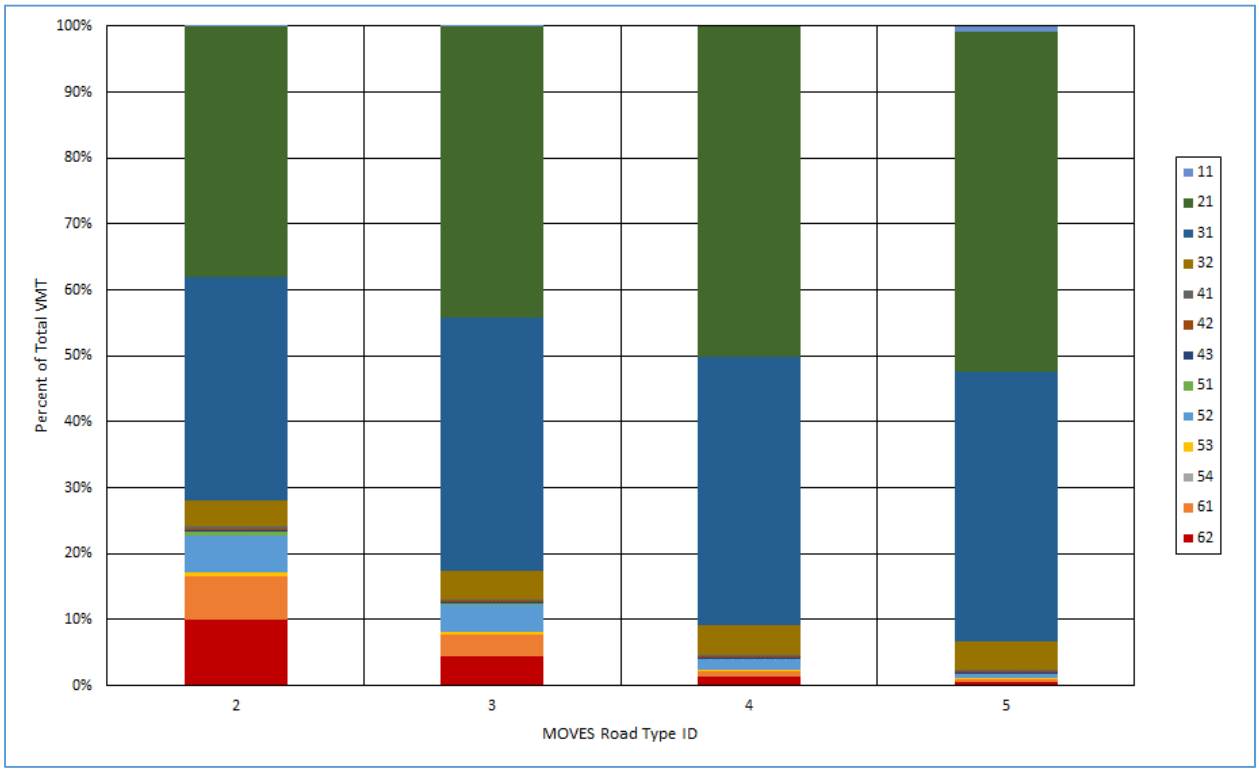

Figure 2-1. Summary of VMT Mix on Each MOVES Road Type.

2.2.1.2 Monthly Traffic Profiles

The monthly VMT profiles for MOVES (Figure 2-2) and SMOKE (Figure 2-3) are illustrated below. The MOVES model distributes annual VMT to monthly totals using monthly VMT fractions (Figure 2-2). Monthly variations in Clark County do not indicate a strong seasonal influence on VMT.

SMOKE monthly temporal profiles (Figure 2-3) are similar to MOVES in that they distribute annual VMT to month, but in SMOKE the profiles also vary by road type. Out of the four MOVES road types, Rural Restricted Access (Road Type 2, in red) has the highest relative summertime VMT, with a peak spanning June through August. Rural Unrestricted Access (Road Type 3, yellow), Urban Restricted (Road Type 4, blue), and Urban Unrestricted (Road Type 5, purple) do not show much seasonal variation. Most of the VMT in Clark County is on Urban Unrestricted Access Roads (Figure 2-3, purple), and the relatively flat shape is what dictates the MOVES areawide monthly profiles in Figure 2-2.

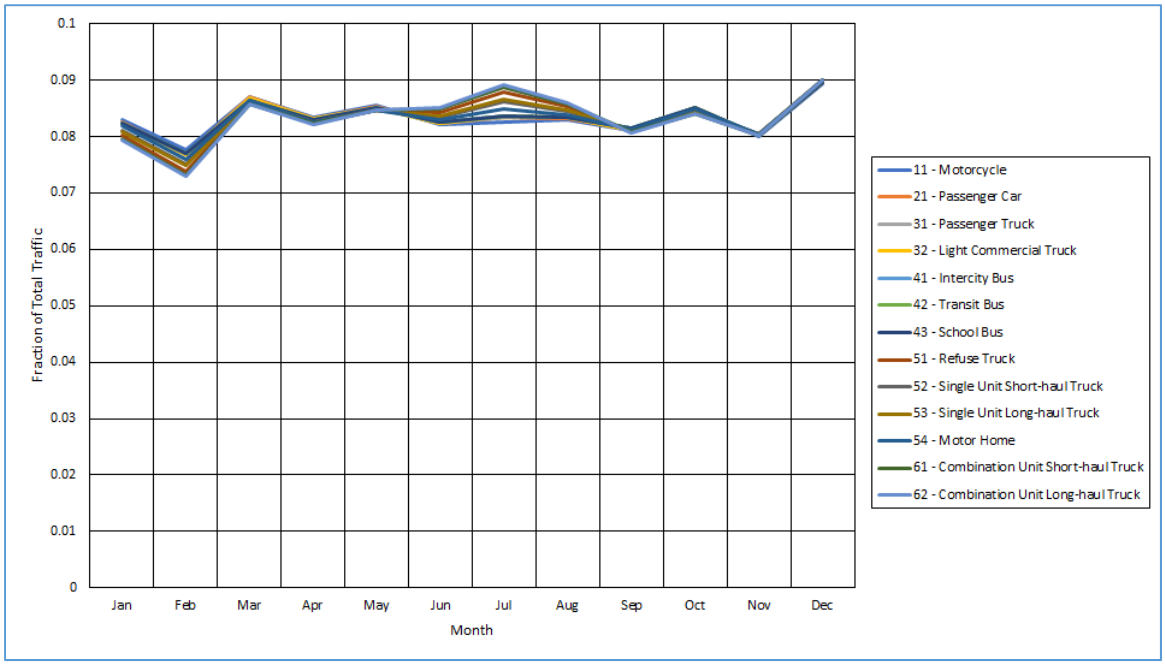

Figure 2-2. MOVES Month VMT Fractions for Clark County, NV.

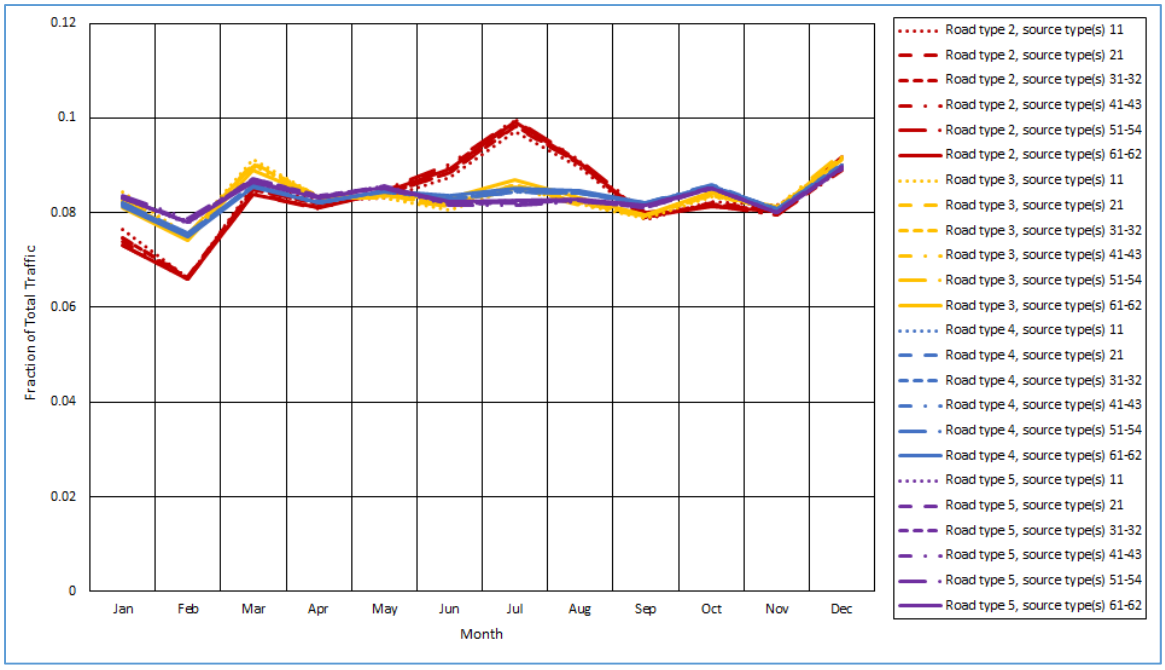

Figure 2-3. SMOKE Monthly Temporal Profiles for Clark County, NV.

2.2.1.3 Weekly Traffic Profiles

The day-of-week profiles in MOVES apportion week VMT to two periods of the week: "Weekday," consisting of five days, and "Weekend," consisting of two days. Figure 2-4 shows a sample of the profiles for passenger cars. The ratio of weekday to weekend VMT grows from left to right, moving from Rural Road Types 2 and 3 to Urban Road Types 4 and 5. This pattern of higher weekday VMT on urban roads and unrestricted roads was generally true for the other source types.

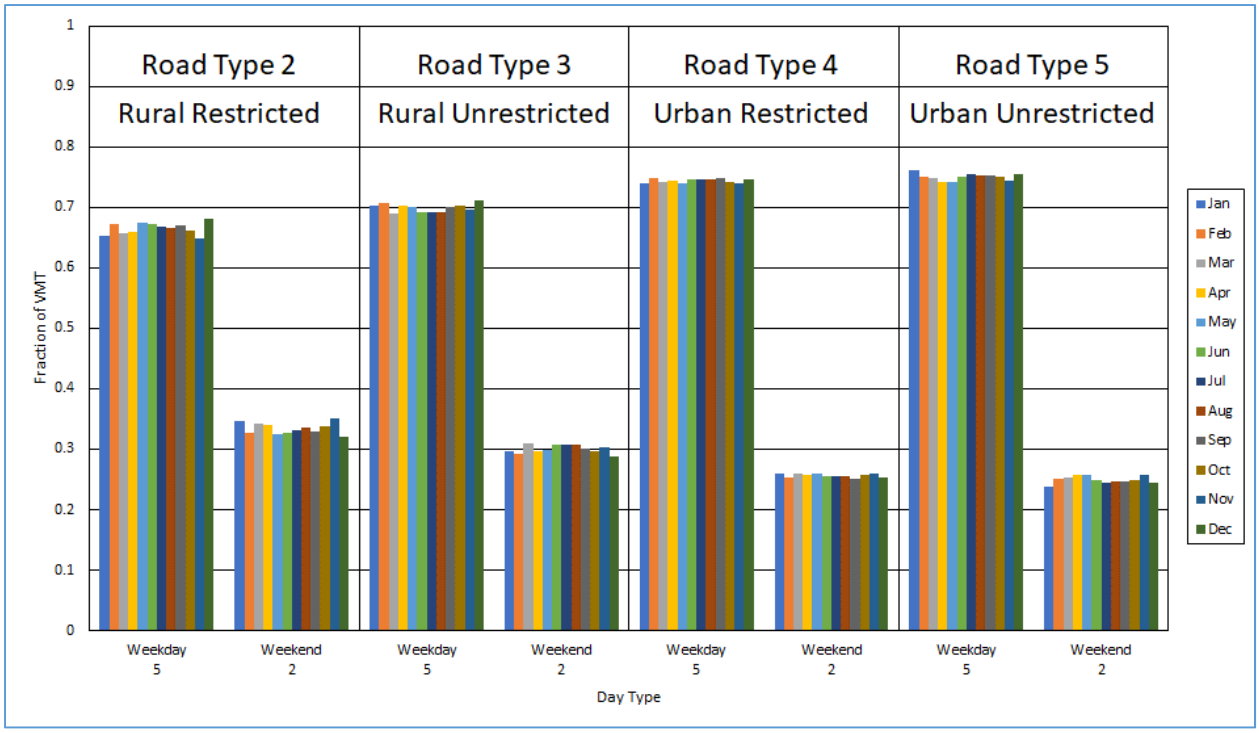

Figure 2-4. Sample MOVES Day VMT Fractions (Passenger Cars).

The SMOKE weekly temporal profiles in Figure 2-5 sum to one over seven days of the week for each MOVES road type, source type, and month. This sample of profiles is for July. In general, Monday through Friday have the highest fraction of VMT per day, with notable exceptions of motorcycles (source type 11) on Rural Restricted Access (red) and Rural Unrestricted Access (yellow). Other source types on Rural Restricted Access Roads have higher Sunday and Saturday VMT, with notable depressions in VMT on Tuesday and Wednesday. Motorcycles that operate on rural roads have much higher VMT on Sunday and Saturday than on weekdays.

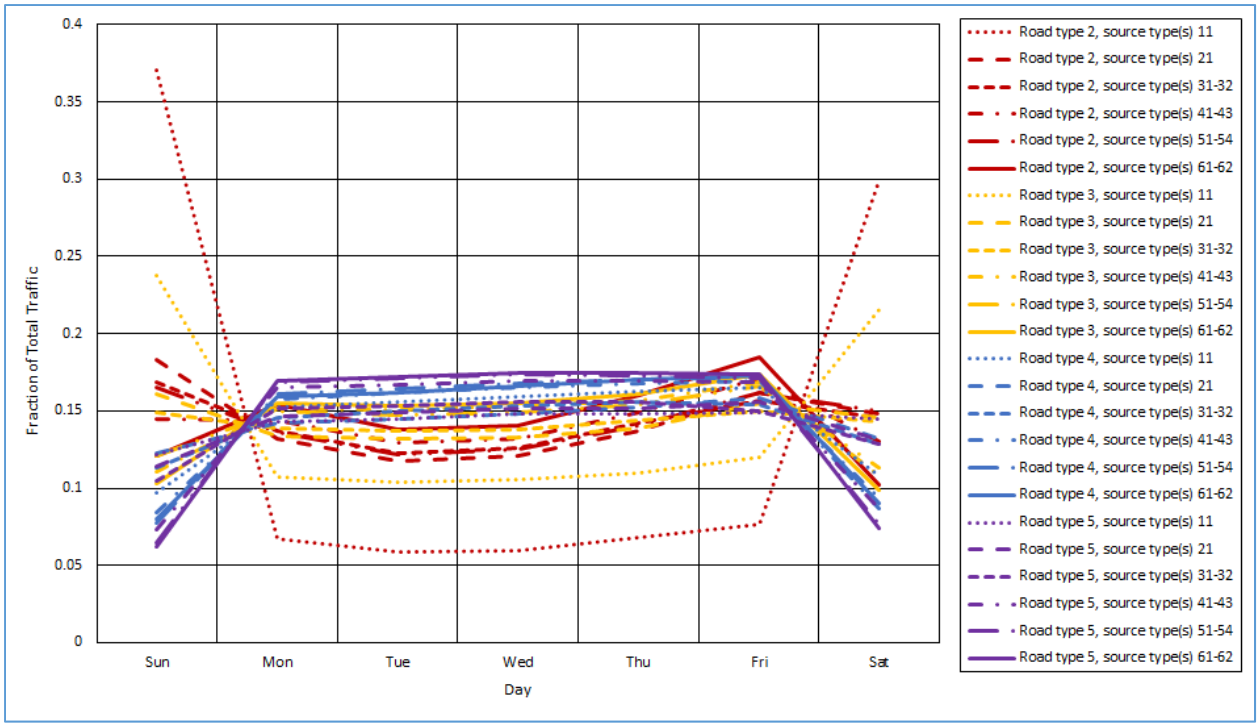

Figure 2-5. Sample SMOKE Weekly Temporal Profiles (July).

2.2.1.4 Hourly Traffic Profiles

Figure 2-6 shows sample MOVES hour-VMT fractions for passenger cars traveling on weekdays (solid line series) and weekends (broken line series) for each of the four MOVES road types in Clark County. On weekdays, the two Urban Road Types, 4 and 5 (grey and yellow), have prominent morning peaks in VMT fractions. Weekend profiles on all road types reach their high point between around 12:00 p.m. to 4:00 p.m.

The hourly VMT profiles for SMOKE vary by day of the week and month. SMOKE profiles (Figure 2-7) also vary by vehicle class, while CONCEPT's do not. Figures 2-6 and 2-7 show series where the hourly fractions sum to one within each of the seven day types, left to right corresponding to Sunday through Saturday. Motorcycles, passenger cars, and light-duty trucks have a large afternoon peak in VMT on weekdays, while the heavy-duty vehicle classes—including bus, single unit truck, and combination truck—show VMT patterns that are shifted earlier in the day.

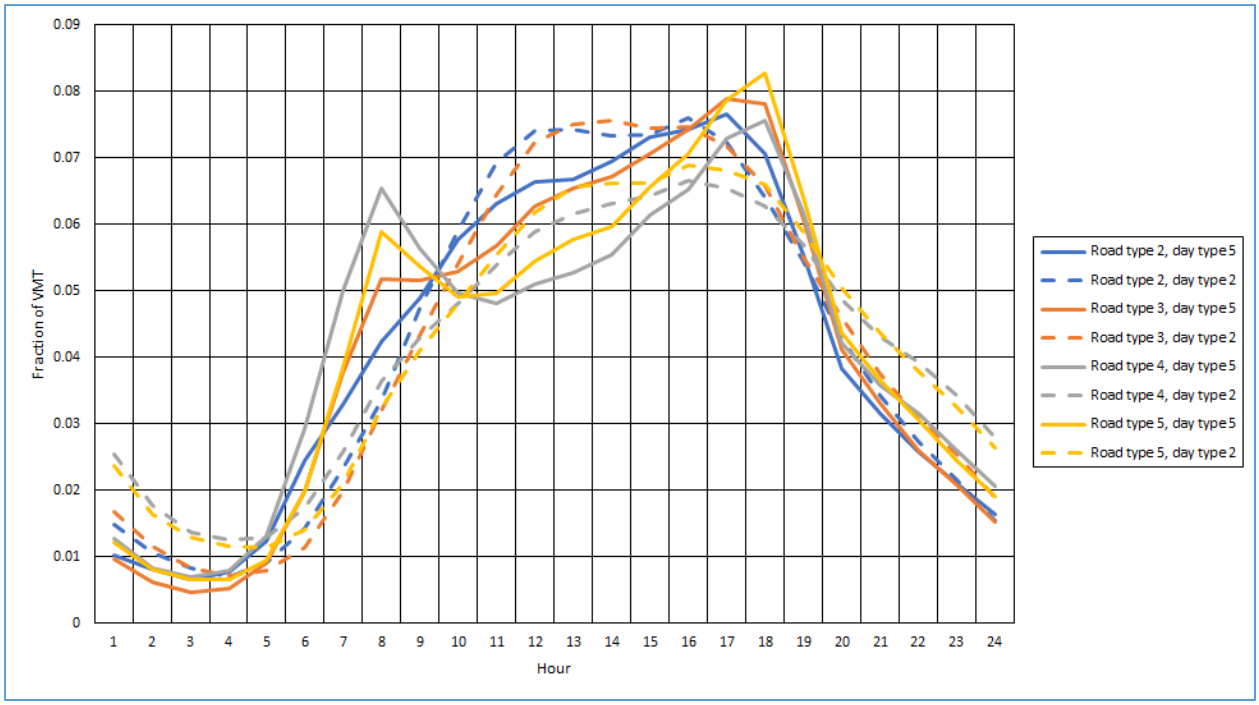

Figure 2-6. Sample MOVES Hour VMT Fractions (Passenger Cars).

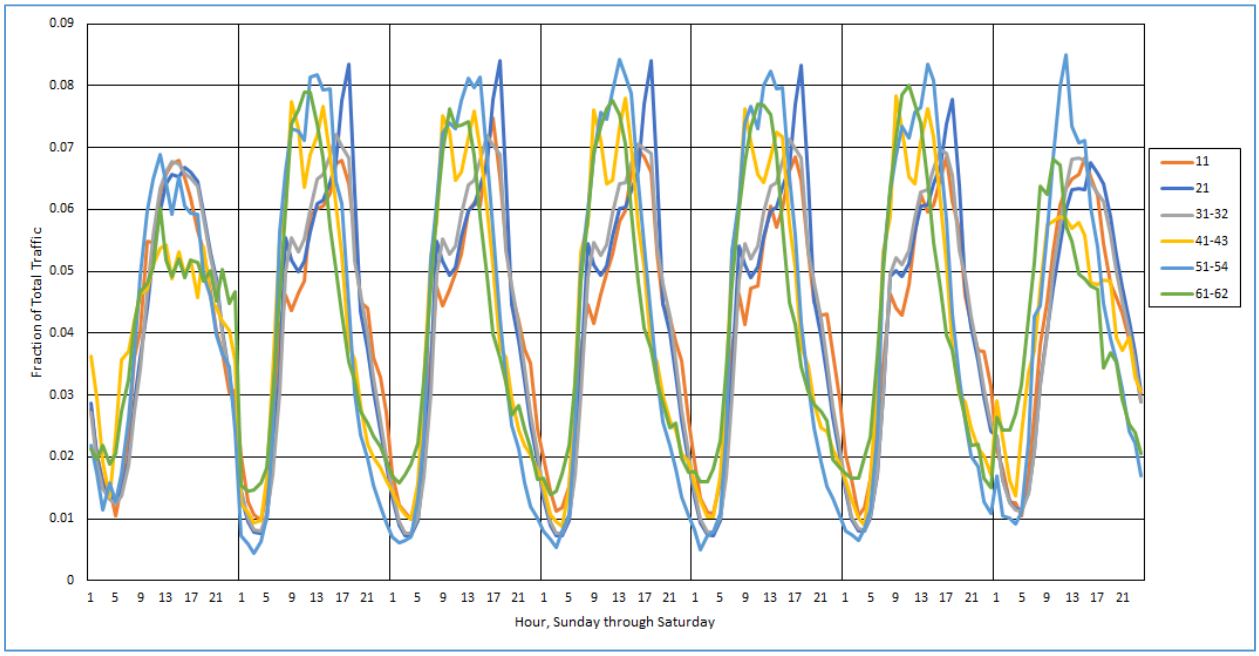

Figure 2-7. Sample SMOKE Diurnal Temporal Profiles (July, Urban Unrestricted Roads).

2.2.2 Other MOVES and SMOKE Inputs

The Nevada Department of Motor Vehicle (DMV) provided DAQ with 2008 light-duty vehicle registration data for Clark County by model year and vehicle type, which were used to generate vehicle population and vehicle age distribution inputs. The age distribution for heavy-duty vehicles was exported from MOVES2014a's default database. 2015 age distribution data was obtained from Vehicle Identification Number decoding for 2014 registration data that EPA did in compiling version 2 of the 2014 NEI. The age distribution data from the 2014 NEI were adjusted for 2015 using the Age Distribution Projection Tool. The age distribution data for 2022 are based on MOVES2014a's default database.

Vehicle speed distribution is a crucial component of on-road emission inventories, and the Coordinating Research Council has sponsored several projects aimed at improving the on-road portion of the NEI. For Clark County MOVES runs, the average vehicle speed distributions of 16 MOVES speed bins for each vehicle type were based on Council-sponsored project A-100, which used StreetLight Data vehicle telematics data. Meteorology data inputs were based on WRF modeling for the Clark County 4-km domain.

Activity data (such as VMT and VPOP) for each vehicle type are required inputs for MOVES. The VMT data for 2008 and 2015 used in this modeling effort were derived from NDOT's annual HPMS reports. Future year growth factors were based on RTC travel demand model results and a trend analysis for rural VMTs. Additionally, the MOVES model requires annual or daily VMT by vehicle type, so DAQ used the VMT mix information from the June 2018 "Clark County Vehicle Classification Study" (Figure 2-1) to generate annual VMTs for each vehicle (or source) type. Table 2-3 lists annual VMT by source type for the three modeling years.

Table 2-3. Clark County Annual VMT by Vehicle Type

Source Type ID	Source Type Name	2008	2015	2022
11	Motorcycle	80,235,581	99,061,650	127,646,611
21	Passenger car	6,914,769,710	8,574,500,465	10,981,582,363
31	Passenger truck	5,562,014,161	6,897,514,245	8,834,137,898
32	Light commercial truck	595,216,631	738,134,617	945,381,592
41	Intercity bus	44,927,246	53,850,967	74,906,924
42	Transit bus	19,990,936	25,477,371	30,353,740
43	School bus	17,614,776	22,552,529	25,056,495
51	Refuse truck	11,151,873	13,212,213	16,489,730
52	Single unit short-haul truck	179,517,840	214,145,832	268,758,864
53	Single unit long-haul truck	17,478,944	19,246,654	22,530,653
54	Motor home	1,520,169	1,801,025	2,247,800
61	Combination short-haul truck	140,713,419	159,373,595	197,573,565
62	Combination long-haul truck	212,916,546	233,057,952	272,763,573
TOTAL:		**13,798,067,834**	**17,051,929,114**	**21,799,429,808**

The vehicle type population data were derived primarily from the DMV's vehicle registration database, adjusted using further data from the RTC for transit buses and local refuse haulers. School bus populations were based on reports from the online publication *School Bus Fleet* (www.schoolbusfleet.com). Vehicle population estimates for combination short-haul and long-haul trucks were based on MOVES's default database. Table 2-4 shows the Clark County VPOP data used in the modeling effort.

Table 2-4. Clark County Vehicle Population

Source Type ID	Source Type Name	2008	2015	2022
11	Motorcycle	34,962	39,363	44,886
21	Passenger car	652,923	673,463	767,950
31	Passenger truck	510,753	524,517	598,107
32	Light commercial truck	63,580	64,413	73,450
41	Intercity bus	413	350	399
42	Transit bus	715	807	830
43	School bus	1,500	1,719	1,960
51	Refuse truck	553	604	689
52	Single unit short-haul truck	14,896	15,651	17,847
53	Single unit long-haul truck	1,049	1,108	1,264
54	Motor home	854	867	989
61	Combination short-haul truck	5,411	5,356	5,893
62	Combination long-haul truck	5,168	5,863	7,266
	TOTAL:	**1,292,777**	**1,334,081**	**1,521,529**

MOVES and SMOKE also require input from hoteling activity, which refers to the hours that diesel long-haul combination trucks spend idling during drivers' mandatory rest periods. MOVES accounts for idling and auxiliary power unit use as separate emission processes in addition to truck operation on roadways. Hoteling hours were calculated using both rural and urban VMT on restricted access roads, applying the NEI hoteling rate of 0.033807 hours/mile.

Vehicle emissions factors were adjusted for local fuel parameters using the MOVES2014a default database. For instance:

- Sulfur levels in both gasoline and diesel fuels had to meet EPA's low-sulfur requirements as part of the Tier 2 standard (pre-2017) or the Tier 3 standard (post-2017).
- The market share of ethanol blend in Clark County in July 2008 was about 70 percent, and it reached 100 percent in 2012.
- Nevada caps the fuel Reid vapor pressure in Clark County at 9.0 pounds per square inch (psi), with a 1.0-psi waiver for ethanol-blended fuels.

I/M program information is another important input to MOVES. In the Las Vegas Valley, the state I/M program requires an annual two-speed idle test for 1995 and older vehicles, and on-board diagnostics checks (exhaust and evaporative) for 1996 and newer vehicles. This information was incorporated into MOVES modeling. Since classic vehicles in Clark County can be exempted from I/M tests, classic vehicle data obtained from the Nevada DMV were factored into the Clark County MOVES database.

2.3 SMOKE Model Runs

DAQ first ran SMOKE-MOVES tools that run the MOVES model automatically to generate emissions rates by temperature and vehicle speed bin that can populate emission rates lookup tables. The output emissions rate lookup tables are categorized into four groups: rate-per-distance, rate-per-vehicle, rate-per-profile, and rate-per-hour. DAQ also generated SMOKE activity data files by Source Classification Code in SMOKE flat file 10 format for the three model years using EPA's script for NEI modeling platforms.

Once emission rates lookup tables and activity data files were created, DAQ ran the SMOKE emissions model over the Clark County 4-km modeling domain using those lookup tables to generate gridded on-road mobile source emissions estimates for 2008, 2015, and 2022. For practical purposes, DAQ ran SMOKE-MOVES only for the month of July to represent summer-month weekday on-road mobile emissions.

When running SMOKE, a number of ancillary data files (such as cross-references files) are needed. Except for the temporal profiles described earlier, DAQ used the ancillary files developed by EPA for the 2011v6.3 modeling platform, which it had used for the photochemical modeling required to assess cross-state ozone transport for the 2015 ozone standard.

2.4 On-road Mobile Emissions Estimates

Table 2-5 shows Clark County summertime average weekday emissions estimates for 2008, 2015, and 2022. These emissions are the weekday average of SMOKE modeling results for the month of July with the emissions factors generated with MOVES 2014a for those years. Despite a large increase in VMT from 2008 to 2022, emissions of both ozone precursors significantly decrease due to fleet turnover with the implementation of stringent emissions control limits such as Tier 3 standards, which were phased in starting in 2017.

Table 2-5. Clark County On-road Mobile Emissions in July (tpd)

	2008	2015	2022
NO_x	89.50	64.30	27.02
VOCs	42.46	33.04	17.12

3.0 NON-ROAD SOURCE EMISSIONS

Non-road mobile equipment encompasses a wide variety of equipment types that either move under their own power or can be moved from site to site. DAQ has updated the non-road mobile emission inventories for 2008, 2015, and 2022 using the non-road module of MOVES2014a (MOVES-NON-ROAD), which incorporates NON-ROAD2008, the latest public release of EPA's NON-ROAD model.

The MOVES-NON-ROAD module includes both emissions factors and default county-level population and activity data. The model estimates emissions and can be post-processed to generate emission factors; it includes more than 80 basic and 260 specific types of non-road equipment, but does not include commercial marine, locomotive, and aircraft emissions. It arranges equipment into the following categories or sectors.

- Recreational vehicles, such as all-terrain vehicles and off-road motorcycles
- Construction equipment, such as graders and back hoes
- Industrial equipment, such as forklifts and sweepers
- Residential and commercial lawn and garden equipment, such as leaf and snow blowers
- Agricultural equipment, such as tractors, combines, and balers
- Commercial equipment
- Logging equipment, such as shredders and large chain saws
- Airport ground support, such as terminal tractors
- Underground mining equipment
- Oil field equipment
- Pleasure craft, such as power boats
- Railroad yards.

The MOVES-NONROAD model contain within the MOVES2014a model framework incorporates the effects of promulgated federal regulations, including the latest Tier 4 emissions standards for non-road compression-ignition engines and low-sulfur non-road diesel fuel. The equation for estimating these emissions in the model is:

Eq. 3-1. Emissions = (Pop)(Power)(LF)(A)(EF)

where

Pop = engine population
Power = average power (horsepower)
LF = load factor (fraction of available power)
A = activity (hours/year)
EF = emission factor (grams/horsepower-hour)

MOVES-NONROAD incorporates default estimates, variables, and factors for use in calculations. All data are stored in MySQL database tables, and can be changed by the user if data more appropriate to the local area are available; however, due to limited time and resources, DAQ used the default input database to estimate Clark County non-road emissions for the modeling years.

Table 3-1 lists emissions estimates for Clark County by sector in tons per day (tpd) from MOVES-NONROAD. Emissions from the Airport Ground Supporting sector were zeroed out, since they were included in the airport emissions inventories (Section 4.3).

Table 3-1. Clark County Summer Weekday Non-road Emissions Estimates (tpd)

Sector Name	NOx			VOC		
	2008	2015	2022	2008	2015	2022
Recreational	0.160	0.183	0.180	6.505	5.559	3.971
Construction	32.412	21.355	11.783	4.951	3.574	2.934
Industrial	1.553	0.815	0.691	0.293	0.094	0.062
Lawn/Garden	4.741	3.794	3.566	24.807	17.935	18.475
Agriculture	0.079	0.059	0.037	0.010	0.007	0.005
Commercial	1.379	1.133	0.913	2.552	1.780	1.754
Logging	0	0	0	0	0	0
Airport Support	0	0	0	0	0	0
Underground Mining	0.006	0	0	0.002	0	0
Oil Field	0.277	0.003	0.002	2.940	0.001	0.001
Pleasure Craft	0.016	0.338	0.322	0.004	2.144	1.312
Railroad	0.010	0.013	0.009	0.002	0.003	0.002
TOTAL	**40.63**	**27.69**	**17.50**	**42.07**	**31.10**	**28.52**

4.0 EMISSIONS ESTIMATES FROM OTHER SOURCES

This section provides updated emissions estimates for other source categories, including nonpoint, point, commercial aviation, and federal aviation. Biogenic emissions and Emission Reduction Credits (ERCs), which were included in the ozone maintenance plan, were not updated, as explained in this section.

4.1 Nonpoint Source Emissions

Nonpoint emissions have been updated for 2008, 2015, and 2022. The 2008 summer weekday nonpoint emissions estimates were updated with a SMOKE run using the 2008 NEI flat file, which can be downloaded from EPA's NEI file transfer protocol site. No NEI data are available for 2015, so DAQ assumed the differences between 2014 and 2015 were negligible in terms of the uncertainty in nonpoint emissions; thus 2015 emissions estimates were updated from a SMOKE run using 2014 NEI data as a surrogate for 2015. The emissions rates of change derived from the 2011–2023 annual rate of change for all nonpoint sectors in EPA's 2011 Version 6 Air Emissions Modeling Platforms were used to project 2022 emissions from 2014 emissions.

Table 4-1 shows the updated 2008, 2015, and 2022 summer weekday nonpoint emissions estimates for NO_x and VOC. Overall, it shows the emission trends for both time periods decreasing. For NOx, the decreasing rates for 2008–2015 and 2015–2022 are very similar, but for VOCs, the decreasing rate for 2008–2015 is higher than that for 2015–2022.

Table 4-1. Clark County Summertime Weekday Nonpoint Source Emissions (tpd)

	2008	2015	2022
NO_x	6.60	5.94	5.04
VOC	67.56	60.12	59.49

4.2 Point Source Emissions

This section updates the point source emission inventories in Appendix A of Clark County's ozone redesignation request and maintenance plan for the 1997 8-hour ozone standard. The maintenance plan contained actual emission inventories for the baseline year 2008 and projected emission inventories for 2015 and 2022. This section contains actual emissions for 2008 and 2015, obtained from annual reports submitted by individual stationary sources; projected emission inventories for 2022 were calculated by applying the growth factors DAQ developed for its state implementation plan (SIP) for the 1997 ozone standard to actual emission inventories for 2015. Any new or existing sources whose emissions had increased significantly since 2008 were incorporated into updated emission inventories.

Table 4-2 provides overall NO_x and VOC point source emissions for 2008, 2015, and 2022 (the tables in Appendix A-1 list detailed emissions unit-level emissions for those years). The significant decrease in NO_x from 2008–2015 comes from the shutdown of the Reid Gardner coal-fired power plant.

Table 4-2. Clark County Summer Point Source Emissions (tpd)

	2008	2015	2022
NO_x	28.97	11.60	12.26
VOC	1.50	2.42	2.72

4.3 Commercial Aviation

This section provides updated emissions for commercial aviation in Clark County. It covers emissions from five facilities: McCarran International Airport, North Las Vegas Airport, Henderson Executive Airport, Jean Airport, and Perkins Field Airport.

Table 4-3 presents the 2008 actual emissions from the ozone maintenance plan.

Table 4-3. 2008 Actual Commercial Aviation Emissions (tons per summer day)

Facility Name	Facility ID	NO_x	VOC
McCarran International Airport	108	11.37	2.34
North Las Vegas Airport	24001	0.03	0.16
Henderson Executive Airport	24002	0.02	0.07
Jean Airport	24003	<0.01	0.03
Perkins Field (Overton Airport)	24004	<0.01	<0.01
TOTAL		**11.41**	**2.60**

Table 4-4 presents 2008 and 2015 passenger volume at the large Clark County airports. Data for the smaller airports (Jean and Overton) were not publicly available.

Table 4-4. Actual Passenger Volume

Facility Name	2008	2015
McCarran International Airport	44,074,707	45,389,074
North Las Vegas Airport	365,981	234,955
Henderson Executive Airport	119,206	225,162

Table 4-5 presents revised 2015 emissions for commercial aviation, estimated based on 2008 emissions and the increase or decrease in passenger volume between 2008 and 2015. Emissions for Jean and Overton airports were estimated to be the same as their 2008 emissions. The revised emissions are less than those projected in the 1997 ozone standard SIP, which assumed the operation of Sloan Regional Heliport and the construction of the South County Ivanpah Airport. Neither project has been constructed.

Table 4-5. 2015 Revised Commercial Aviation Emissions (tons per summer day)

Facility Name	Facility ID	NO_X	VOC
McCarran International Airport	108	11.71	2.41
North Las Vegas Airport	24001	0.02	0.10
Henderson Executive Airport	24002	0.04	0.13
Jean Airport	24003	<0.01	0.03
Perkins Field (Overton Airport)	24004	<0.01	<0.01
TOTAL		**11.77**	**2.67**

Table 4-6 presents projected emissions for 2022. Projected emissions for the McCarran, North Las Vegas, and Henderson airports and the Sloan Heliport were obtained from the 1997 ozone standard SIP. The 2022 emissions for the Jean and Overton airports were assumed to be the same as their 2015 emissions. No 2022 emissions were estimated for the Ivanpah airport because the project is on hold.

Table 4-6. 2022 Projected Commercial Aviation Emissions (tons per summer day)

Facility Name	Facility ID	NO_X	VOC
McCarran International Airport	108	17.18	1.85
North Las Vegas Airport	24001	0.17	0.79
Henderson Executive Airport	24002	0.05	0.26
Jean Airport	24003	<0.01	0.03
Perkins Field (Overton Airport)	24004	<0.01	0.01
Proposed Sloan Regional Heliport	n/a	0.02	0.01
Proposed South County (Ivanpah) Airport	n/a	0.00	0.00
TOTAL		**17.42**	**2.95**

4.4 Federal Aviation

This section presents updated emissions for federal aviation in Clark County, which consists primarily of emissions from Nellis Air Force Base (AFB).

Table 4-7 presents the 2008 actual emissions in the 1997 ozone standard SIP. They comprise emissions from stationary source activities covered under a Title V permit and aircraft operations. Nellis AFB reported 2015 emissions for stationary source activities to DAQ, which estimated 2015 aircraft operation emissions using growth factors derived from comparing stationary source emissions for 2008 and 2015.

Table 4-7. Federal Aviation Emissions for 2008 (Actual) and 2015 (Revised)

Activity	NO_x				VOC			
	2008 tpy	2008 tpd	2015 tpy	2015 tpd	2008 tpy	2008 tpd	2015 tpy	2015 tpd
Stationary Source	10.47	0.03	12.97	0.04	10.86	0.03	14.85	0.04
Aircraft Operations	453.89	1.24	562.27	1.54	276.37	0.76	377.91	1.04
TOTAL		**1.27**		**1.58**		**0.79**		**1.08**

Table 4-8 presents Nellis AFB's 2022 projected emissions, provided by Nellis AFB and including the bed down of F-35 aircraft.

Table 4-8. 2022 Projected Federal Aviation Emissions

Activity	NOx		VOC	
	tpy	tpd	tpy	tpd
Stationary Source	106.11	0.29	46.78	0.13
Aircraft Operations	720.26	1.97	300.31	0.82
TOTAL		**2.26**		**0.95**

4.5 Biogenic Emissions

VOC emissions from plants (biogenic emissions) can have a substantial impact on regional air quality. Biogenic sources include crops, lawn grass, and forests, which produce isoprene, monoterpene, alpha-pinene, and other VOCs; soils produce a small amount of NO_x emissions as well. In the ozone maintenance plan, DAQ used the Model of Emissions of Gasses and Aerosols from Nature to estimate gridded VOC and NO_x emissions for Clark County. The biogenic emissions for Clark County were estimated to be 5.0 tpd of NO_x and 159.5 tpd of VOCs. DAQ kept the same emissions amounts for all modeling years.

DAQ has not updated biogenic emissions using this model, though it has used the Biogenic Emissions Inventory System (v.3) model in photochemical modeling. However, since DAQ assumes biogenic emissions are the same for all years, biogenic emissions estimates would not change the MVEB estimates. Due to limits of time and resources, DAQ did not revise the biogenic emissions inventories, but used the emissions estimates from the ozone maintenance plan.

4.6 Banked Emission Reduction Credits

If requested, ERCs may be granted to a source that voluntarily reduces emissions beyond required levels of control. ERCs may be sold, leased, banked for future use, or traded, in accordance with applicable regulations. Once used to offset emissions, they are permanently retired. ERCs are intended to provide an incentive for reducing emissions and to establish a framework for promoting a market-based approach to regulating air pollution. DAQ has reviewed the ERCs banked in Clark County and concluded they have not changed from those submitted in the ozone maintenance plan (Table 4-9).

Table 4-9. Summary of ERCs Banked in Clark County (tpd)

	2008	2015	2022
NO_x	0	22.23	22.23
VOC	0	0.43	0.43

5.0 EMISSION SUMMARY FOR ALL SOURCE CATEGORIES

Tables 5-1 and 5-2 show emissions estimates for Clark County by major source category for 2008, 2015, and 2022. The tables indicate on-road mobile was the dominant emission source for NO_x in 2008 and 2015, and will continue to be the dominant source in 2022. They also show nonpoint has been, and will continue to be, the dominant emission source for VOCs.

The overall emissions totals from all sources for both NO_x and VOCs showed a substantial decrease from 2008 to 2015. DAQ projects significant decreases out to 2022, especially for NO_x.

Table 5-1. Summary of Clark County Summer Weekday NO_x Emissions (tpd)

Source Category	2008 NO_x	2015 NO_x	2022 NO_x
Point	28.97	11.60	12.26
Nonpoint	6.60	5.94	5.04
Commercial Aviation	11.41	11.77	17.42
Federal Aviation	1.27	1.58	2.26
On-road mobile	89.50	64.30	27.02
Non-road mobile	40.63	27.69	17.50
Biogenic	5.00	5.00	5.00
ERC	0	22.23	22.23
TOTAL	**183.38**	**150.11**	**108.73**

Table 5-2. Summary of Clark County Summer Weekday VOC Emissions (tpd)

Source Category	2008 VOC	2015 VOC	2022 VOC
Point	1.50	2.42	2.72
Nonpoint	67.56	60.12	59.49
Commercial Aviation	2.60	2.67	2.95
Federal Aviation	0.79	1.08	0.95
On-road mobile	42.46	33.04	17.12
Non-road mobile	42.07	31.10	28.52
Biogenic	132	132	132
ERC	0	0.43	0.43
TOTAL	**288.98**	**262.86**	**244.18**

Appendix A-1

Point Source Emissions by Emissions Unit in Clark County

Tables A1 and A2 list the actual NOX and VOC emissions for 2008. Tables A3 and A4 list the actual NO_x and VOC emissions for 2015. Tables A5 and A6 provide the projected emissions for NOX and VOC for 2022.

Table A1: 2008 Actual NO_x Emissions

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Chemical Lime (Apex)	3	1	25	0.05	0.00	0.00
Chemical Lime (Apex)	3	2	25	127.39	0.35	0.35
Chemical Lime (Apex)	3	3	25	115.21	0.32	0.32
Chemical Lime (Apex)	3	4	25	202.93	0.56	0.56
Chemical Lime (Apex)	3	5	25	648.63	1.78	1.78
Chemical Lime (Apex)	3	7	25	0.12	0.00	0.00
Chemical Lime (Apex)	3	10	25	0.41	0.00	0.00
Chemical Lime (Apex)	3	28	25	4.58	0.01	0.01
Certain Teed Gypsum	4	4-E11	25	8.18	0.02	0.02
Certain Teed Gypsum	4	4-F1	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-F2	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-F3	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-F4	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-G1	25	6.91	0.02	0.02
Certain Teed Gypsum	4	4-G1a	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-G1b	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-G1c	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-J3	25	12.71	0.03	0.03
Certain Teed Gypsum	4	4-L4	25	0.97	0.00	0.00
Certain Teed Gypsum	4	B8	25	0.00	0.00	0.00
Certain Teed Gypsum	4	J2	25	0.00	0.00	0.00
Chemical Lime (Henderson)	5	1	25	0.10	0.00	0.00
NV Energy (Clark Station)	7	4	27	3.00	0.01	0.01
NV Energy (Clark Station)	7	5	27	234.30	0.64	0.69
NV Energy (Clark Station)	7	6	27	351.00	0.96	1.04
NV Energy (Clark Station)	7	7	27	390.10	1.07	1.15
NV Energy (Clark Station)	7	8	27	216.40	0.59	0.64
NV Energy (Clark Station)	7	21	27	0.03	0.00	0.00

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
NV Energy (Clark Station)	7	22	27	0.00	0.00	0.00
NV Energy (Clark Station)	7	27	27	0.48	0.00	0.00
NV Energy (Clark Station)	7	28	27	0.30	0.00	0.00
NV Energy (Clark Station)	7	29	27	0.32	0.00	0.00
NV Energy (Clark Station)	7	30	27	0.05	0.00	0.00
NV Energy (Clark Station)	7	31	27	1.02	0.00	0.00
NV Energy (Clark Station)	7	32	27	0.48	0.00	0.00
NV Energy (Clark Station)	7	33	27	0.13	0.00	0.00
NV Energy (Clark Station)	7	34	27	1.57	0.00	0.00
NV Energy (Clark Station)	7	35	27	2.94	0.01	0.01
NV Energy (Clark Station)	7	36	27	2.27	0.01	0.01
NV Energy (Clark Station)	7	37	27	2.07	0.01	0.01
NV Energy (Clark Station)	7	38	27	1.57	0.00	0.00
NV Energy (Clark Station)	7	45	27	0.04	0.00	0.00
NV Energy (Clark Station)	7	46	27	0.00	0.00	0.00
NV Energy (Sunrise Station)	8	8_01	100	7.86	0.02	0.09
NV Energy (Sunrise Station)	8	8_02	100	0.07	0.00	0.00
PABCO Gypsum	11	1	25	0.00	0.00	0.00
PABCO Gypsum	11	01a	25	4.22	0.01	0.01
PABCO Gypsum	11	5	25	0.00	0.00	0.00
PABCO Gypsum	11	9	25	1.19	0.00	0.00
PABCO Gypsum	11	10	25	1.19	0.00	0.00
PABCO Gypsum	11	11	25	1.19	0.00	0.00
PABCO Gypsum	11	12	25	0.60	0.00	0.00
PABCO Gypsum	11	13	25	0.60	0.00	0.00
PABCO Gypsum	11	14	25	0.60	0.00	0.00
PABCO Gypsum	11	18	25	20.38	0.06	0.06
PABCO Gypsum	11	18a	25	2.60	0.01	0.01
PABCO Gypsum	11	19	25	23.78	0.07	0.07
PABCO Gypsum	11	19a	25	3.03	0.01	0.01
PABCO Gypsum	11	20	25	13.59	0.04	0.04
PABCO Gypsum	11	20a	25	1.73	0.00	0.00
PABCO Gypsum	11	21	25	5.43	0.01	0.01
PABCO Gypsum	11	21a	25	0.69	0.00	0.00
PABCO Gypsum	11	22	25	4.76	0.01	0.01

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
PABCO Gypsum	11	22a	25	0.61	0.00	0.00
PABCO Gypsum	11	25	25	2.71	0.01	0.01
PABCO Gypsum	11	26	25	2.71	0.01	0.01
PABCO Gypsum	11	30	25	8.11	0.02	0.02
PABCO Gypsum	11	31	25	6.31	0.02	0.02
PABCO Gypsum	11	32	25	3.60	0.01	0.01
PABCO Gypsum	11	36	25	4.32	0.01	0.01
PABCO Gypsum	11	45	25	2.71	0.01	0.01
PABCO Gypsum	11	46	25	2.71	0.01	0.01
PABCO Gypsum	11	48	25	0.00	0.00	0.00
PABCO Gypsum	11	50	25	8.11	0.02	0.02
PABCO Gypsum	11	51	25	6.31	0.02	0.02
PABCO Gypsum	11	52	25	3.60	0.01	0.01
Wells Cargo	12	1	25	3.42	0.01	0.01
Wells Cargo	12	2	25	0.00	0.00	0.00
Wells Cargo	12	3	25	2.10	0.01	0.01
Kinder Morgan	13	B10	25	0.18	0.00	0.00
Kinder Morgan	13	D02	25	0.03	0.00	0.00
Kinder Morgan	13	SR04	25	0.51	0.00	0.00
Titanium Metals Corp.	19	A01	25	0.00	0.00	0.00
Titanium Metals Corp.	19	B06	25	0.54	0.00	0.00
Titanium Metals Corp.	19	B09	25	0.23	0.00	0.00
Titanium Metals Corp.	19	B10	25	0.17	0.00	0.00
Titanium Metals Corp.	19	C05	25	0.14	0.00	0.00
Titanium Metals Corp.	19	D02E	25	0.00	0.00	0.00
Titanium Metals Corp.	19	D02W	25	0.00	0.00	0.00
Titanium Metals Corp.	19	E03	25	0.00	0.00	0.00
Titanium Metals Corp.	19	G02	25	0.00	0.00	0.00
Titanium Metals Corp.	19	G10	25	0.00	0.00	0.00
Titanium Metals Corp.	19	M11	25	0.00	0.00	0.00
Planet Hollywood	26	1	25	1.64	0.00	0.00
Circus Circus Hotel & Casino	47	1	25	5.12	0.01	0.01
Flamingo Las Vegas	73	1	25	4.79	0.01	0.01
Monte Carlo Hotel & Casino	74	1	25	2.33	0.01	0.01
LASCO Bathware	75	1	25	0.63	0.00	0.00

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Four Queens Hotel & Casino	76	1	25	3.17	0.01	0.01
Fremont Hotel	77	1	25	1.87	0.01	0.01
Golden Nugget Hotel & Casino	81	1	25	4.29	0.01	0.01
Horseshoe Club	85	1	25	6.45	0.02	0.02
Riviera Hotel & Casino	86	1	25	16.50	0.05	0.05
Tronox	95	A01	25	0.05	0.00	0.00
Tronox	95	A02	25	0.09	0.00	0.00
Tronox	95	A03	25	0.09	0.00	0.00
Tronox	95	A04	25	0.26	0.00	0.00
Tronox	95	A05	25	4.90	0.01	0.01
Tronox	95	A07	25	2.23	0.01	0.01
Tronox	95	A10	25	0.08	0.00	0.00
Tronox	95	A15	25	1.84	0.01	0.01
Sahara Hotel & Casino	133	1	25	4.89	0.01	0.01
J R Simplot Company	138	1	25	0.84	0.00	0.00
J R Simplot Company	138	2	25	97.72	0.27	0.27
Laughlin Landfill	149	1	25	15.80	0.04	0.04
Tropicana Hotel and Casino	153	1	25	6.64	0.02	0.02
Plaza Hotel and Casino	155	1	25	7.52	0.02	0.02
Bally's Hotel and Casino	256	1	25	4.15	0.01	0.01
Harrah's Las Vegas	257	1	25	2.46	0.01	0.01
Caesars Palace	276	1	25	7.59	0.02	0.02
Mirage/Treasure Island	282	1	25	14.06	0.04	0.04
Catalina Plastic and Coating	323	1	25	0.20	0.00	0.00
Las Vegas Cogeneration	329	1	51	4.63	0.01	0.03
Las Vegas Cogeneration	329	3	51	5.12	0.01	0.03
Las Vegas Cogeneration	329	4	51	5.24	0.01	0.03
Las Vegas Cogeneration	329	5	51	4.93	0.01	0.03
Las Vegas Cogeneration	329	6	51	4.63	0.01	0.03
Las Vegas Cogeneration	329	8	51	0.14	0.00	0.00
Las Vegas Cogeneration	329	9	51	0.14	0.00	0.00
Las Vegas Cogeneration	329	10	51	0.01	0.00	0.00
Las Vegas Cogeneration	329	11	51	0.00	0.00	0.00
NCA #1	360	1	27	30.05	0.08	0.09
NCA #1	360	2	27	32.11	0.09	0.10

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
NCA #1	360	3	27	32.45	0.09	0.10
NCA #1	360	4	27	0.02	0.00	0.00
NCA #1	360	6	27	0.00	0.00	0.00
NCA #1	360	8	27	0.00	0.00	0.00
Aggregate Industries	372	1	25	2.26	0.01	0.01
Aggregate Industries	372	2	25	6.85	0.02	0.02
Aggregate Industries	372	3	25	0.24	0.00	0.00
Aggregate Industries	372	4	25	0.36	0.00	0.00
Aggregate Industries	372	5	25	0.20	0.00	0.00
Aggregate Industries	372	6	25	0.00	0.00	0.00
Aggregate Industries	372	7	25	1.68	0.00	0.00
Aggregate Industries	372	8	25	0.00	0.00	0.00
Aggregate Industries	372	9	25	0.00	0.00	0.00
Aggregate Industries	372	10	25	0.00	0.00	0.00
Aggregate Industries	372	11	25	2.22	0.01	0.01
Aggregate Industries	372	12	25	0.00	0.00	0.00
Aggregate Industries	372	13	25	0.25	0.00	0.00
NCA #2	391	1	27	32.69	0.09	0.10
NCA #2	391	2	27	31.51	0.09	0.09
NCA #2	391	3	27	33.97	0.09	0.10
NCA #2	391	4	27	0.02	0.00	0.00
NCA #2	391	5	27	0.21	0.00	0.00
NCA #2	391	7	27	0.01	0.00	0.00
Saguaro Power Company	393	1	27	29.98	0.08	0.09
Saguaro Power Company	393	2	27	29.75	0.08	0.09
Saguaro Power Company	393	3	27	0.42	0.00	0.00
Saguaro Power Company	393	4	27	0.45	0.00	0.00
Saguaro Power Company	393	5	27	7.27	0.02	0.02
Saguaro Power Company	393	6	27	2.93	0.01	0.01
Saguaro Power Company	393	7	27	0.00	0.00	0.00
Republic DUMPCO (Apex)	395	2	25	0.00	0.00	0.00
Republic DUMPCO (Apex)	395	3	25	30.70	0.08	0.08
Republic DUMPCO (Apex)	395	4	25	13.52	0.04	0.04
Republic DUMPCO (Apex)	395	5	25	0.00	0.00	0.00
Republic DUMPCO (Apex)	395	6	25	41.23	0.11	0.11

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Republic DUMPCO (Apex)	395	7	25	1.36	0.00	0.00
City of Las Vegas WPCF	402	1	25	0.00	0.00	0.00
City of Las Vegas WPCF	402	2	25	0.00	0.00	0.00
City of Las Vegas WPCF	402	3	25	0.00	0.00	0.00
City of Las Vegas WPCF	402	4	25	0.00	0.00	0.00
City of Las Vegas WPCF	402	5	25	0.00	0.00	0.00
City of Las Vegas WPCF	402	6	25	0.00	0.00	0.00
City of Las Vegas WPCF	402	7	25	0.00	0.00	0.00
City of Las Vegas WPCF	402	8	25	13.52	0.04	0.04
Nevada Sun Peak Partnerships	423	1	37	3.23	0.01	0.01
Nevada Sun Peak Partnerships	423	2	37	4.79	0.01	0.02
Nevada Sun Peak Partnerships	423	3	37	2.70	0.01	0.01
Fitzgeralds	434	1	25	3.86	0.01	0.01
Kern River (Goodsprings)	468	1	25	67.50	0.18	0.18
Capital Cabinets	482	1	25	0.32	0.00	0.00
Nevada Ready Mix	512	1	25	0.00	0.00	0.00
NV Energy (Harry Allen)	533	1	80	3.20	0.01	0.03
NV Energy (Harry Allen)	533	2	80	0.40	0.00	0.00
NV Energy (Harry Allen)	533	3	80	0.00	0.00	0.00
NV Energy (Harry Allen)	533	4	80	0.00	0.00	0.00
NV Energy (Harry Allen)	533	7	80	0.06	0.00	0.00
NV Energy (Harry Allen)	533	8	80	0.17	0.00	0.00
NV Energy (Harry Allen)	533	9	80	2.40	0.01	0.02
NV Energy (Harry Allen)	533	10	80	0.07	0.00	0.00
Stratosphere Hotel & Casino	564	1	25	8.93	0.02	0.02
Georgia Pacific	593	C01	25	2.33	0.01	0.01
Georgia Pacific	593	C02	25	2.33	0.01	0.01
Georgia Pacific	593	C03	25	2.33	0.01	0.01
Georgia Pacific	593	C04	25	2.33	0.01	0.01
Georgia Pacific	593	C05	25	2.33	0.01	0.01
Georgia Pacific	593	E03	25	17.95	0.05	0.05
Georgia Pacific	593	E105	25	0.12	0.00	0.00
Georgia Pacific	593	E106	25	0.12	0.00	0.00
Georgia Pacific	593	E110	25	2.58	0.01	0.01
Georgia Pacific	593	E111	25	2.41	0.01	0.01

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Georgia Pacific	593	E145	25	1.79	0.00	0.00
Georgia Pacific	593	E146	25	0.27	0.00	0.00
Georgia Pacific	593	E147	25	0.20	0.00	0.00
Georgia Pacific	593	E148	25	0.23	0.00	0.00
Georgia Pacific	593	E153	25	0.05	0.00	0.00
Georgia Pacific	593	E154	25	0.05	0.00	0.00
Georgia Pacific	593	G33	25	0.00	0.00	0.00
Georgia Pacific	593	G34	25	0.01	0.00	0.00
Georgia Pacific	593	Z01	25	0.06	0.00	0.00
Las Vegas Club	603	1	25	4.98	0.01	0.01
Excalibur Hotel and Casino	609	1	25	5.24	0.01	0.01
Bill's Gambling Hall	611	1	25	1.79	0.00	0.00
Imperial Palace Hotel & Casino	613	1	25	2.71	0.01	0.01
El Dorado Energy	652	A01	27	75.23	0.21	0.22
El Dorado Energy	652	A02	27	76.82	0.21	0.23
El Dorado Energy	652	A03	27	1.45	0.00	0.00
Venetian Hotel and Casino	697	1	25	8.20	0.02	0.02
Mandalay Bay/Four Seasons	737	1	25	14.17	0.04	0.04
Paris Hotel and Casino	749	1	25	3.48	0.01	0.01
Bellagio/Boardwalk	756	1	25	14.07	0.04	0.04
MGM Grand/NY New York	825	1	25	15.25	0.04	0.04
Las Vegas Valley Water Dist.	837	1	25	2.39	0.01	0.01
Luxor Hotel and Casino	856	1	25	8.64	0.02	0.02
NV Energy (Chuck Lenzie)	1513	1	25	61.97	0.17	0.17
NV Energy (Chuck Lenzie)	1513	3	25	62.70	0.17	0.17
NV Energy (Chuck Lenzie)	1513	5	25	61.44	0.17	0.17
NV Energy (Chuck Lenzie)	1513	7	25	58.51	0.16	0.16
NV Energy (Chuck Lenzie)	1513	9	25	0.09	0.00	0.00
NV Energy (Chuck Lenzie)	1513	10	25	0.00	0.00	0.00
NV Energy (Chuck Lenzie)	1513	12	25	0.06	0.00	0.00
NV Energy (Chuck Lenzie)	1513	13	25	0.06	0.00	0.00
NV Energy (Chuck Lenzie)	1513	14	25	0.12	0.00	0.00
NV Energy (Chuck Lenzie)	1513	15	25	0.00	0.00	0.00
NV Energy (Chuck Lenzie)	1513	16	25	0.05	0.00	0.00
Las Vegas Power Company	1520	A01,2	45	73.60	0.20	0.36

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Las Vegas Power Company	1520	A03,4	45	71.10	0.19	0.35
Las Vegas Power Company	1520	A05	45	2.40	0.01	0.01
Las Vegas Power Company	1520	A06	45	0.09	0.00	0.00
Las Vegas Power Company	1520	A07	45	0.10	0.00	0.00
NV Energy (Walter Higgins)	1550	A01,2	31	9.49	0.03	0.03
NV Energy (Walter Higgins)	1550	A03,4	31	8.08	0.02	0.03
NV Energy (Walter Higgins)	1550	A05	31	0.06	0.00	0.00
NV Energy (Walter Higgins)	1550	A06	31	1.87	0.01	0.01
NV Energy (Silverhawk)	1584	A01	30	53.57	0.15	0.18
NV Energy (Silverhawk)	1584	A03	30	48.53	0.13	0.16
NV Energy (Silverhawk)	1584	A05	30	0.13	0.00	0.00
NV Energy (Silverhawk)	1584	A06	30	0.00	0.00	0.00
Kern River (Dry Lake-Apex)	1590	1	25	32.20	0.09	0.09
Republic Services (Sunrise)	15033	1	25	2.37	0.01	0.01
NV Energy (State-Clark Station)	AP398	1	25	0.00	0.00	0.00
NV Energy (State-Clark Station)	AP398	2	25	0.00	0.00	0.00
NV Energy (State-Clark Station)	AP398	3	25	0.00	0.00	0.00
NV Energy (State-Sunrise Stn)	AP399	1	51	55.58	0.15	0.31
NV Energy (Reid-Gardner)	AP400	1	27	1312.85	3.60	3.88
NV Energy (Reid-Gardner)	AP400	2	27	1609.71	4.41	4.76
NV Energy (Reid-Gardner)	AP400	3	27	1012.73	2.77	3.00
NV Energy (Reid-Gardner)	AP400	4	27	1623.27	4.45	4.80
Las Vegas Paving (Lone Mtn.)	105	All	25	31.97	0.09	0.09
Aggregate Industries (5th Street)	587	All	25	10.66	0.03	0.03
Primm Valley Resorts	617	All	25	15.73	0.04	0.04
University of Nevada, Las Vegas	634	All	25	0.00	0.00	0.00
Clearwater Paper	807	All	25	19.95	0.05	0.05
World Market Center	15541	All	25	6.48	0.02	0.02
Switch Communications	16304	All	25	3.24	0.01	0.01
CC Landfill Energy LLC	16539	All	25	0.00	0.00	0.00
Geneva Polymer Products	16948	All	25	0.00	0.00	0.00
TOTAL				**9730.47**	**26.66**	**28.97**

Table A2: 2008 Actual VOC Emissions

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Chemical Lime (Apex)	3	1	25	0.01	0.0000	0.0000
Chemical Lime (Apex)	3	2	25	1.89	0.0052	0.0052
Chemical Lime (Apex)	3	3	25	1.36	0.0037	0.0037
Chemical Lime (Apex)	3	4	25	2.61	0.0072	0.0072
Chemical Lime (Apex)	3	5	25	11.88	0.0325	0.0325
Chemical Lime (Apex)	3	7	25	0.01	0.0000	0.0000
Chemical Lime (Apex)	3	10	25	0.02	0.0001	0.0001
Chemical Lime (Apex)	3	28	25	1.85	0.0051	0.0051
Certain Teed Gypsum	4	1	25	9.36	0.0256	0.0256
Certain Teed Gypsum	4	4-E11	25	0.32	0.0009	0.0009
Certain Teed Gypsum	4	4-F1	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-F2	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-F3	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-F4	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-G1	25	0.36	0.0010	0.0010
Certain Teed Gypsum	4	4-G1a	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-G1b	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-G1c	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-J3	25	0.77	0.0021	0.0021
Certain Teed Gypsum	4	4-L4	25	0.02	0.0001	0.0001
Certain Teed Gypsum	4	B8	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	J2	25	0.00	0.0000	0.0000
Chemical Lime (Henderson)	5	1	25	0.59	0.0016	0.0016
NV Energy (Clark Station)	7	4	27	0.20	0.0005	0.0006
NV Energy (Clark Station)	7	5	27	1.60	0.0044	0.0047
NV Energy (Clark Station)	7	6	27	0.40	0.0011	0.0012
NV Energy (Clark Station)	7	7	27	3.30	0.0090	0.0098
NV Energy (Clark Station)	7	8	27	1.90	0.0052	0.0056
NV Energy (Clark Station)	7	21	27	0.01	0.0000	0.0000
NV Energy (Clark Station)	7	22	27	0.00	0.0000	0.0000
NV Energy (Clark Station)	7	27	27	0.01	0.0000	0.0000
NV Energy (Clark Station)	7	28	27	0.01	0.0000	0.0000
NV Energy (Clark Station)	7	29	27	0.01	0.0000	0.0000

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
NV Energy (Clark Station)	7	30	27	0.01	0.0000	0.0000
NV Energy (Clark Station)	7	31	27	0.05	0.0001	0.0001
NV Energy (Clark Station)	7	32	27	0.02	0.0001	0.0001
NV Energy (Clark Station)	7	33	27	0.01	0.0000	0.0000
NV Energy (Clark Station)	7	34	27	0.04	0.0001	0.0001
NV Energy (Clark Station)	7	35	27	0.09	0.0002	0.0003
NV Energy (Clark Station)	7	36	27	0.08	0.0002	0.0002
NV Energy (Clark Station)	7	37	27	0.06	0.0002	0.0002
NV Energy (Clark Station)	7	38	27	0.02	0.0001	0.0001
NV Energy (Clark Station)	7	45	27	0.00	0.0000	0.0000
NV Energy (Clark Station)	7	46	27	0.00	0.0000	0.0000
NV Energy (Sunrise Station)	8	8_01	100	0.05	0.0001	0.0005
NV Energy (Sunrise Station)	8	8_02	100	2.41	0.0066	0.0264
PABCO Gypsum	11	1	25	20.55	0.0563	0.0563
PABCO Gypsum	11	01a	25	1.18	0.0032	0.0032
PABCO Gypsum	11	5	25	0.00	0.0000	0.0000
PABCO Gypsum	11	9	25	0.10	0.0003	0.0003
PABCO Gypsum	11	10	25	0.10	0.0003	0.0003
PABCO Gypsum	11	11	25	0.10	0.0003	0.0003
PABCO Gypsum	11	12	25	0.05	0.0001	0.0001
PABCO Gypsum	11	13	25	0.05	0.0001	0.0001
PABCO Gypsum	11	14	25	0.04	0.0001	0.0001
PABCO Gypsum	11	18	25	1.99	0.0055	0.0055
PABCO Gypsum	11	18a	25	0.05	0.0001	0.0001
PABCO Gypsum	11	19	25	2.32	0.0064	0.0064
PABCO Gypsum	11	19a	25	0.06	0.0002	0.0002
PABCO Gypsum	11	20	25	1.33	0.0036	0.0036
PABCO Gypsum	11	20a	25	0.03	0.0001	0.0001
PABCO Gypsum	11	21	25	0.53	0.0015	0.0015
PABCO Gypsum	11	21a	25	0.01	0.0000	0.0000
PABCO Gypsum	11	22	25	0.46	0.0013	0.0013
PABCO Gypsum	11	22a	25	0.01	0.0000	0.0000
PABCO Gypsum	11	25	25	0.12	0.0003	0.0003
PABCO Gypsum	11	26	25	0.12	0.0003	0.0003
PABCO Gypsum	11	30	25	0.24	0.0007	0.0007

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
PABCO Gypsum	11	31	25	0.18	0.0005	0.0005
PABCO Gypsum	11	32	25	0.11	0.0003	0.0003
PABCO Gypsum	11	36	25	0.30	0.0008	0.0008
PABCO Gypsum	11	45	25	0.12	0.0003	0.0003
PABCO Gypsum	11	46	25	0.12	0.0003	0.0003
PABCO Gypsum	11	48	25	0.00	0.0000	0.0000
PABCO Gypsum	11	50	25	0.24	0.0007	0.0007
PABCO Gypsum	11	51	25	0.18	0.0005	0.0005
PABCO Gypsum	11	52	25	0.11	0.0003	0.0003
Wells Cargo	12	1	25	5.85	0.0160	0.0160
Wells Cargo	12	2	25	0.00	0.0000	0.0000
Wells Cargo	12	3	25	2.98	0.0082	0.0082
Kinder Morgan	13	1	25	1.17	0.0032	0.0032
Kinder Morgan	13	2	25	1.03	0.0028	0.0028
Kinder Morgan	13	3	25	0.92	0.0025	0.0025
Kinder Morgan	13	4	25	1.09	0.0030	0.0030
Kinder Morgan	13	5	25	0.59	0.0016	0.0016
Kinder Morgan	13	6	25	0.91	0.0025	0.0025
Kinder Morgan	13	7	25	1.30	0.0036	0.0036
Kinder Morgan	13	8	25	1.45	0.0040	0.0040
Kinder Morgan	13	9	25	1.05	0.0029	0.0029
Kinder Morgan	13	10	25	1.06	0.0029	0.0029
Kinder Morgan	13	11	25	0.34	0.0009	0.0009
Kinder Morgan	13	12	25	1.30	0.0036	0.0036
Kinder Morgan	13	13	25	0.35	0.0010	0.0010
Kinder Morgan	13	14	25	0.07	0.0002	0.0002
Kinder Morgan	13	15	25	0.09	0.0002	0.0002
Kinder Morgan	13	16	25	1.77	0.0048	0.0048
Kinder Morgan	13	17	25	1.95	0.0053	0.0053
Kinder Morgan	13	18	25	0.20	0.0005	0.0005
Kinder Morgan	13	19	25	1.33	0.0036	0.0036
Kinder Morgan	13	20	25	1.18	0.0032	0.0032
Kinder Morgan	13	21	25	1.89	0.0052	0.0052
Kinder Morgan	13	22	25	0.68	0.0019	0.0019
Kinder Morgan	13	23	25	0.08	0.0002	0.0002

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Kinder Morgan	13	24	25	0.08	0.0002	0.0002
Kinder Morgan	13	26	25	0.01	0.0000	0.0000
Kinder Morgan	13	27	25	0.22	0.0006	0.0006
Kinder Morgan	13	28	25	0.73	0.0020	0.0020
Kinder Morgan	13	29	25	0.31	0.0008	0.0008
Kinder Morgan	13	30	25	0.00	0.0000	0.0000
Kinder Morgan	13	31	25	0.01	0.0000	0.0000
Kinder Morgan	13	32	25	0.01	0.0000	0.0000
Kinder Morgan	13	33	25	0.02	0.0001	0.0001
Kinder Morgan	13	34	25	0.01	0.0000	0.0000
Kinder Morgan	13	36	25	0.00	0.0000	0.0000
Kinder Morgan	13	37	25	0.00	0.0000	0.0000
Kinder Morgan	13	38	25	0.00	0.0000	0.0000
Kinder Morgan	13	39	25	0.00	0.0000	0.0000
Kinder Morgan	13	42	25	0.02	0.0001	0.0001
Kinder Morgan	13	45	25	0.81	0.0022	0.0022
Kinder Morgan	13	46	25	0.85	0.0023	0.0023
Kinder Morgan	13	47	25	1.05	0.0029	0.0029
Kinder Morgan	13	48	25	0.60	0.0016	0.0016
Kinder Morgan	13	53	25	0.00	0.0000	0.0000
Kinder Morgan	13	54	25	0.00	0.0000	0.0000
Kinder Morgan	13	56	25	0.08	0.0002	0.0002
Kinder Morgan	13	57	25	0.07	0.0002	0.0002
Kinder Morgan	13	58	25	3.24	0.0089	0.0089
Kinder Morgan	13	59	25	0.17	0.0005	0.0005
Kinder Morgan	13	60	25	3.23	0.0088	0.0088
Kinder Morgan	13	61	25	1.64	0.0045	0.0045
Kinder Morgan	13	B01	25	46.62	0.1277	0.1277
Kinder Morgan	13	B02	25	2.10	0.0058	0.0058
Kinder Morgan	13	B04	25	0.65	0.0018	0.0018
Kinder Morgan	13	B05	25	0.81	0.0022	0.0022
Kinder Morgan	13	B06	25	5.07	0.0139	0.0139
Kinder Morgan	13	B10	25	0.38	0.0010	0.0010
Kinder Morgan	13	D02	25	0.00	0.0000	0.0000
Kinder Morgan	13	SR04	25	0.32	0.0009	0.0009

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Titanium Metals Corp.	19	A01	25	2.42	0.0066	0.0066
Titanium Metals Corp.	19	B06	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	B09	25	0.17	0.0005	0.0005
Titanium Metals Corp.	19	B10	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	C05	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	D02E	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	D02W	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	E03	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	G02	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	G10	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	M11	25	0.00	0.0000	0.0000
Planet Hollywood	26	1	25	0.19	0.0005	0.0005
Circus Circus Hotel & Casino	47	1	25	1.01	0.0028	0.0028
Flamingo Las Vegas	73	1	25	0.71	0.0019	0.0019
Monte Carlo Hotel & Casino	74	1	25	0.39	0.0011	0.0011
LASCO Bathware	75	1	25	10.04	0.0275	0.0275
Four Queens Hotel & Casino	76	1	25	0.03	0.0001	0.0001
Fremont Hotel	77	1	25	0.19	0.0005	0.0005
Golden Nugget Hotel & Casino	81	1	25	2.29	0.0063	0.0063
Horseshoe Club	85	1	25	0.69	0.0019	0.0019
Riviera Hotel and Casino	86	1	25	5.52	0.0151	0.0151
Tronox	95	A01	25	0.00	0.0000	0.0000
Tronox	95	A02	25	0.01	0.0000	0.0000
Tronox	95	A03	25	0.01	0.0000	0.0000
Tronox	95	A04	25	0.02	0.0001	0.0001
Tronox	95	A05	25	0.88	0.0024	0.0024
Tronox	95	A07	25	0.11	0.0003	0.0003
Tronox	95	A10	25	0.00	0.0000	0.0000
Tronox	95	A15	25	0.00	0.0000	0.0000
Tronox	95	A17	25	0.70	0.0019	0.0019
Sahara Hotel and Casino	133	1	25	0.36	0.0010	0.0010
J R Simplot Company	138	2	25	0.38	0.0010	0.0010
Laughlin Landfill	149	1	25	4.97	0.0136	0.0136
Tropicana Hotel and Casino	153	1	25	0.83	0.0023	0.0023
Plaza Hotel and Casino	155	1	25	0.76	0.0021	0.0021

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Bally's Hotel and Casino	256	1	25	0.58	0.0016	0.0016
Harrah's Las Vegas	257	1	25	0.35	0.0010	0.0010
Caesars Palace	276	1	25	0.77	0.0021	0.0021
Mirage/Treasure Island	282	1	25	3.83	0.0105	0.0105
Catalina Plastic and Coating	323	1	25	6.40	0.0175	0.0175
Las Vegas Cogeneration	329	1	51	4.29	0.0118	0.0240
Las Vegas Cogeneration	329	3	51	4.76	0.0130	0.0266
Las Vegas Cogeneration	329	4	51	4.69	0.0128	0.0262
Las Vegas Cogeneration	329	5	51	4.23	0.0116	0.0236
Las Vegas Cogeneration	329	6	51	4.29	0.0118	0.0240
Las Vegas Cogeneration	329	8	51	0.05	0.0001	0.0003
Las Vegas Cogeneration	329	9	51	0.05	0.0001	0.0003
Las Vegas Cogeneration	329	10	51	0.00	0.0000	0.0000
Las Vegas Cogeneration	329	11	51	0.00	0.0000	0.0000
NCA #1	360	1	27	0.20	0.0005	0.0006
NCA #1	360	2	27	3.85	0.0105	0.0114
NCA #1	360	3	27	4.21	0.0115	0.0125
NCA #1	360	4	27	0.00	0.0000	0.0000
NCA #1	360	6	27	0.00	0.0000	0.0000
NCA #1	360	8	27	0.00	0.0000	0.0000
Aggregate Industries	372	1	25	0.12	0.0003	0.0003
Aggregate Industries	372	2	25	4.24	0.0116	0.0116
Aggregate Industries	372	3	25	0.08	0.0002	0.0002
Aggregate Industries	372	4	25	0.13	0.0004	0.0004
Aggregate Industries	372	5	25	0.07	0.0002	0.0002
Aggregate Industries	372	6	25	0.00	0.0000	0.0000
Aggregate Industries	372	7	25	0.04	0.0001	0.0001
Aggregate Industries	372	8	25	0.00	0.0000	0.0000
Aggregate Industries	372	9	25	0.00	0.0000	0.0000
Aggregate Industries	372	10	25	0.00	0.0000	0.0000
Aggregate Industries	372	12	25	0.00	0.0000	0.0000
Aggregate Industries	372	13	25	0.02	0.0001	0.0001
NCA #2	391	1	27	4.23	0.0116	0.0125
NCA #2	391	2	27	7.69	0.0211	0.0228
NCA #2	391	3	27	4.12	0.0113	0.0122

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
NCA #2	391	4	27	0.00	0.0000	0.0000
NCA #2	391	5	27	0.02	0.0001	0.0001
NCA #2	391	7	27	0.00	0.0000	0.0000
Saguaro Power Company	393	1	27	1.54	0.0042	0.0046
Saguaro Power Company	393	2	27	1.60	0.0044	0.0047
Saguaro Power Company	393	3	27	0.01	0.0000	0.0000
Saguaro Power Company	393	4	27	0.01	0.0000	0.0000
Saguaro Power Company	393	5	27	1.80	0.0049	0.0053
Saguaro Power Company	393	6	27	0.59	0.0016	0.0017
Saguaro Power Company	393	7	27	0.20	0.0005	0.0006
Saguaro Power Company	393	9	27	0.00	0.0000	0.0000
Republic DUMPCO (Apex)	395	2	25	0.00	0.0000	0.0000
Republic DUMPCO (Apex)	395	3	25	2.89	0.0079	0.0079
Republic DUMPCO (Apex)	395	4	25	0.36	0.0010	0.0010
Republic DUMPCO (Apex)	395	5	25	0.00	0.0000	0.0000
Republic DUMPCO (Apex)	395	6	25	3.77	0.0103	0.0103
Republic DUMPCO (Apex)	395	7	25	0.01	0.0000	0.0000
City of Las Vegas WPCF	402	1	25	0.00	0.0000	0.0000
City of Las Vegas WPCF	402	2	25	0.00	0.0000	0.0000
City of Las Vegas WPCF	402	3	25	0.00	0.0000	0.0000
City of Las Vegas WPCF	402	4	25	0.00	0.0000	0.0000
City of Las Vegas WPCF	402	5	25	0.00	0.0000	0.0000
City of Las Vegas WPCF	402	6	25	0.00	0.0000	0.0000
City of Las Vegas WPCF	402	7	25	0.00	0.0000	0.0000
City of Las Vegas WPCF	402	8	25	11.20	0.0307	0.0307
Nevada Sun Peak Partnerships	423	1	37	0.07	0.0002	0.0003
Nevada Sun Peak Partnerships	423	2	37	0.10	0.0003	0.0004
Nevada Sun Peak Partnerships	423	3	37	0.06	0.0002	0.0002
Fitzgeralds	434	1	25	0.23	0.0006	0.0006
Kern River (Goodsprings)	468	1	25	7.93	0.0217	0.0217
Capital Cabinets	482	1	25	3.82	0.0105	0.0105
Nevada Ready Mix	512	1	25	0.12	0.0003	0.0003
Boulder City Landfill	527	1	25	4.87	0.0133	0.0133
NV Energy (Harry Allen)	533	1	80	0.01	0.0000	0.0001
NV Energy (Harry Allen)	533	2	80	0.02	0.0001	0.0002

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
NV Energy (Harry Allen)	533	3	80	0.00	0.0000	0.0000
NV Energy (Harry Allen)	533	4	80	0.00	0.0000	0.0000
NV Energy (Harry Allen)	533	7	80	0.00	0.0000	0.0000
NV Energy (Harry Allen)	533	8	80	0.00	0.0000	0.0000
NV Energy (Harry Allen)	533	9	80	0.01	0.0000	0.0001
NV Energy (Harry Allen)	533	10	80	0.00	0.0000	0.0000
Stratosphere Hotel & Casino	564	1	25	0.74	0.0020	0.0020
Georgia Pacific	593	C01	25	0.16	0.0004	0.0004
Georgia Pacific	593	C02	25	0.16	0.0004	0.0004
Georgia Pacific	593	C03	25	0.16	0.0004	0.0004
Georgia Pacific	593	C04	25	0.16	0.0004	0.0004
Georgia Pacific	593	C05	25	0.16	0.0004	0.0004
Georgia Pacific	593	E03	25	4.45	0.0122	0.0122
Georgia Pacific	593	E105	25	0.01	0.0000	0.0000
Georgia Pacific	593	E106	25	0.01	0.0000	0.0000
Georgia Pacific	593	E110	25	0.16	0.0004	0.0004
Georgia Pacific	593	E111	25	0.14	0.0004	0.0004
Georgia Pacific	593	E145	25	0.11	0.0003	0.0003
Georgia Pacific	593	E146	25	0.02	0.0001	0.0001
Georgia Pacific	593	E147	25	0.01	0.0000	0.0000
Georgia Pacific	593	E148	25	0.01	0.0000	0.0000
Georgia Pacific	593	E153	25	0.00	0.0000	0.0000
Georgia Pacific	593	E154	25	0.00	0.0000	0.0000
Georgia Pacific	593	G33	25	0.00	0.0000	0.0000
Georgia Pacific	593	G34	25	0.01	0.0000	0.0000
Georgia Pacific	593	Z01	25	0.00	0.0000	0.0000
Las Vegas Club	603	1	25	0.28	0.0008	0.0008
Excalibur Hotel and Casino	609	1	25	0.91	0.0025	0.0025
Bill's Gambling Hall	611	1	25	0.11	0.0003	0.0003
Imperial Palace Hotel & Casino	613	1	25	0.71	0.0019	0.0019
El Dorado Energy	652	A01	27	3.69	0.0101	0.0109
El Dorado Energy	652	A02	27	3.33	0.0091	0.0099
El Dorado Energy	652	A03	27	0.01	0.0000	0.0000
El Dorado Energy	652	A07	27	0.23	0.0006	0.0007
Venetian Hotel and Casino	697	1	25	1.99	0.0055	0.0055

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
Mandalay Bay/Four Seasons	737	1	25	2.48	0.0068	0.0068
Paris Hotel and Casino	749	1	25	0.52	0.0014	0.0014
Bellagio/Boardwalk	756	1	25	5.40	0.0148	0.0148
MGM Grand/NY New York	825	1	25	2.90	0.0079	0.0079
Las Vegas Valley Water Dist.	837	1	25	0.06	0.0002	0.0002
Luxor Hotel and Casino	856	1	25	1.35	0.0037	0.0037
Universal Urethane	859	1	25	21.90	0.0600	0.0600
NV Energy (Chuck Lenzie)	1513	1	25	4.41	0.0121	0.0121
NV Energy (Chuck Lenzie)	1513	3	25	1.91	0.0052	0.0052
NV Energy (Chuck Lenzie)	1513	5	25	0.10	0.0003	0.0003
NV Energy (Chuck Lenzie)	1513	7	25	0.10	0.0003	0.0003
NV Energy (Chuck Lenzie)	1513	9	25	0.10	0.0003	0.0003
NV Energy (Chuck Lenzie)	1513	10	25	0.05	0.0001	0.0001
NV Energy (Chuck Lenzie)	1513	12	25	0.01	0.0000	0.0000
NV Energy (Chuck Lenzie)	1513	13	25	0.01	0.0000	0.0000
NV Energy (Chuck Lenzie)	1513	14	25	0.01	0.0000	0.0000
NV Energy (Chuck Lenzie)	1513	15	25	0.00	0.0000	0.0000
NV Energy (Chuck Lenzie)	1513	16	25	0.07	0.0002	0.0002
Las Vegas Power Company	1520	A01,2	45	4.40	0.0121	0.0217
Las Vegas Power Company	1520	A03,4	45	4.10	0.0112	0.0202
Las Vegas Power Company	1520	A05	45	0.20	0.0005	0.0010
Las Vegas Power Company	1520	A06	45	0.01	0.0000	0.0000
Las Vegas Power Company	1520	A07	45	0.01	0.0000	0.0000
NV Energy (Walter Higgins)	1550	A01,2	31	0.01	0.0000	0.0000
NV Energy (Walter Higgins)	1550	A03,4	31	0.18	0.0005	0.0006
NV Energy (Walter Higgins)	1550	A05	31	0.01	0.0000	0.0000
NV Energy (Walter Higgins)	1550	A06	31	0.05	0.0001	0.0002
NV Energy (Silverhawk)	1584	A01	30	0.15	0.0004	0.0005
NV Energy (Silverhawk)	1584	A03	30	0.15	0.0004	0.0005
NV Energy (Silverhawk)	1584	A05	30	0.01	0.0000	0.0000
NV Energy (Silverhawk)	1584	A06	30	0.00	0.0000	0.0000
Kern River (Dry Lake-Apex)	1590	1	25	0.04	0.0001	0.0001
Republic Services (Sunrise)	15033	1	25	3.73	0.0102	0.0102
NV Energy (State-Clark Station)	AP398	1	25	0.00	0.0000	0.0000
NV Energy (State-Clark Station)	AP398	2	25	0.00	0.0000	0.0000

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2008 NO_x Emissions (tons/year)	2008 NO_x Emissions (tons/day)	2008 NO_x Summer Emissions (tons/day)
NV Energy (State-Clark Station)	AP398	3	25	0.00	0.0000	0.0000
NV Energy (State-Sunrise Stn)	AP399	1	51	3.79	0.0104	0.0212
NV Energy (Reid-Gardner)	AP400	1	27	8.22	0.0225	0.0243
NV Energy (Reid-Gardner)	AP400	2	27	9.55	0.0262	0.0283
NV Energy (Reid-Gardner)	AP400	3	27	9.32	0.0255	0.0276
NV Energy (Reid-Gardner)	AP400	4	27	21.86	0.0599	0.0647
NV Energy (Reid-Gardner)	AP400	5	27	0.54	0.0015	0.0016
Las Vegas Paving (Lone Mtn.)	105	All	25	14.33	0.0393	0.0393
Aggregate Industries (5th Street)	587	All	25	5.72	0.0157	0.0157
Primm Valley Resorts	617	All	25	17.39	0.0476	0.0476
University of Nevada, Las Vegas	634	All	25	0.00	0.0000	0.0000
Clearwater Paper	807	All	25	24.37	0.0668	0.0668
World Market Center	15541	All	25	0.48	0.0013	0.0013
Switch Communications	16304	All	25	0.05	0.0001	0.0001
CC Landfill Energy LLC	16539	All	25	0.00	0.0000	0.0000
Geneva Polymer Products	16948	All	25	0.00	0.0000	0.0000
TOTAL				496.86	1.3613	1.4967

Table A3: 2015 Actual NO_x Emissions

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
Chemical Lime (Apex)	3	1	25	0.00	0.00	0.00
Chemical Lime (Apex)	3	2	25	309.29	0.85	0.85
Chemical Lime (Apex)	3	3	25	42.38	0.12	0.12
Chemical Lime (Apex)	3	4	25	218.77	0.60	0.60
Chemical Lime (Apex)	3	5	25	700.39	1.92	1.92
Chemical Lime (Apex)	3	7	25	0.00	0.00	0.00
Chemical Lime (Apex)	3	10	25	0.48	0.00	0.00
Chemical Lime (Apex)	3	28	25	9.21	0.03	0.03
Certain Teed Gypsum	4	4-E11	25	6.88	0.02	0.02
Certain Teed Gypsum	4	4-F1	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-F2	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-F3	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-F4	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-G1	25	5.81	0.02	0.02
Certain Teed Gypsum	4	4-G1a	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-G1b	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-G1c	25	0.00	0.00	0.00
Certain Teed Gypsum	4	4-J3	25	10.68	0.03	0.03
Certain Teed Gypsum	4	4-L4	25	0.68	0.00	0.00
Certain Teed Gypsum	4	B8	25	0.10	0.00	0.00
Certain Teed Gypsum	4	J2	25	0.00	0.00	0.00
Chemical Lime (Henderson)	5	1	25	0.15	0.00	0.00
NV Energy (Clark Station)	7	4	27	4.88	0.01	0.01
NV Energy (Clark Station)	7	5	27	12.38	0.03	0.04
NV Energy (Clark Station)	7	6	27	11.8	0.03	0.03
NV Energy (Clark Station)	7	7	27	12.89	0.04	0.04
NV Energy (Clark Station)	7	8	27	14.8	0.04	0.04
NV Energy (Clark Station)	7	21	27	0.02	0.00	0.00
NV Energy (Clark Station)	7	22	27	0	0.00	0.00
NV Energy (Clark Station)	7	27	27	4.03	0.01	0.01
NV Energy (Clark Station)	7	28	27	2.68	0.01	0.01
NV Energy (Clark Station)	7	29	27	2.13	0.01	0.01
NV Energy (Clark Station)	7	30	27	3.19	0.01	0.01
NV Energy (Clark Station)	7	31	27	3.22	0.01	0.01
NV Energy (Clark Station)	7	32	27	3.89	0.01	0.01
NV Energy (Clark Station)	7	33	27	3.38	0.01	0.01

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
NV Energy (Clark Station)	7	34	27	3.79	0.01	0.01
NV Energy (Clark Station)	7	35	27	3.51	0.01	0.01
NV Energy (Clark Station)	7	36	27	4.55	0.01	0.01
NV Energy (Clark Station)	7	37	27	4.3	0.01	0.01
NV Energy (Clark Station)	7	38	27	3.93	0.01	0.01
NV Energy (Clark Station)	7	45	27	0.01	0.00	0.00
NV Energy (Clark Station)	7	46	27	0	0.00	0.00
NV Energy (Sunrise Station)	8	8_01	100	0.00	0.00	0.00
NV Energy (Sunrise Station)	8	8_02	100	0.00	0.00	0.00
PABCO Gypsum	11	1	25	0.00	0.00	0.00
PABCO Gypsum	11	01a	25	18.40	0.05	0.05
PABCO Gypsum	11	5	25	0.00	0.00	0.00
PABCO Gypsum	11	9	25	0.92	0.00	0.00
PABCO Gypsum	11	10	25	0.92	0.00	0.00
PABCO Gypsum	11	11	25	0.92	0.00	0.00
PABCO Gypsum	11	12	25	0.46	0.00	0.00
PABCO Gypsum	11	13	25	0.46	0.00	0.00
PABCO Gypsum	11	14	25	0.46	0.00	0.00
PABCO Gypsum	11	18	25	20.524	0.06	0.06
PABCO Gypsum	11	18a	25	1.95	0.01	0.01
PABCO Gypsum	11	19	25	23.12	0.06	0.06
PABCO Gypsum	11	19a	25	2.19	0.01	0.01
PABCO Gypsum	11	20	25	15.89	0.04	0.04
PABCO Gypsum	11	20a	25	1.51	0.00	0.00
PABCO Gypsum	11	21	25	6.15	0.02	0.02
PABCO Gypsum	11	21a	25	0.58	0.00	0.00
PABCO Gypsum	11	22	25	5.56	0.02	0.02
PABCO Gypsum	11	22a	25	0.53	0.00	0.00
PABCO Gypsum	11	25	25	4.95	0.01	0.01
PABCO Gypsum	11	26	25	4.95	0.01	0.01
PABCO Gypsum	11	30	25	13.15	0.04	0.04
PABCO Gypsum	11	31	25	13.15	0.04	0.04
PABCO Gypsum	11	32	25	13.15	0.04	0.04
PABCO Gypsum	11	36	25	6.91	0.02	0.02
PABCO Gypsum	11	45	25	6.93	0.02	0.02
PABCO Gypsum	11	46	25	6.93	0.02	0.02
PABCO Gypsum	11	48	25	0	0.00	0.00

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
PABCO Gypsum	11	50	25	13.15	0.04	0.04
PABCO Gypsum	11	51	25	13.15	0.04	0.04
PABCO Gypsum	11	52	25	13.15	0.04	0.04
Wells Cargo	12	1	25	5.98	0.02	0.02
Wells Cargo	12	2	25	0.45	0.00	0.00
Wells Cargo	12	3	25	8.19	0.02	0.02
Kinder Morgan	13	B10	25	0.00	0.00	0.00
Kinder Morgan	13	D02	25	0.06	0.00	0.00
Kinder Morgan	13	SR04	25	0.00	0.00	0.00
Titanium Metals Corp.	19	A01	25	0.23	0.00	0.00
Titanium Metals Corp.	19	B06	25	8.83	0.02	0.02
Titanium Metals Corp.	19	B09	25	1.30	0.00	0.00
Titanium Metals Corp.	19	B10	25	0.08	0.00	0.00
Titanium Metals Corp.	19	C05	25	0.42	0.00	0.00
Titanium Metals Corp.	19	D02E	25	0.00	0.00	0.00
Titanium Metals Corp.	19	D02W	25	0.00	0.00	0.00
Titanium Metals Corp.	19	E03	25	0.05	0.00	0.00
Titanium Metals Corp.	19	G02	25	0.00	0.00	0.00
Titanium Metals Corp.	19	G10	25	0.01	0.00	0.00
Titanium Metals Corp.	19	M11	25	0.00	0.00	0.00
Planet Hollywood	26	1	25	0.03	0.00	0.00
Circus Circus Hotel & Casino	47	1	25	4.50	0.01	0.01
Flamingo Las Vegas	73	1	25	4.76	0.01	0.01
Monte Carlo Hotel & Casino	74	1	25	2.89	0.01	0.01
LASCO Bathware	75	1	25	1.08	0.00	0.00
Four Queens Hotel & Casino	76	1	25	1.50	0.00	0.00
Fremont Hotel	77	1	25	2.02	0.01	0.01
Golden Nugget Hotel & Casino	81	1	25	2.81	0.01	0.01
Horseshoe Club	85	1	25	9.21	0.03	0.03
Riviera Hotel & Casino	86	1	25	0.00	0.00	0.00
Tronox	95	A01	25	0.03	0.00	0.00
Tronox	95	A02	25	0.05	0.00	0.00
Tronox	95	A03	25	0.05	0.00	0.00
Tronox	95	A04	25	0.15	0.00	0.00
Tronox	95	A05	25	4.08	0.01	0.01
Tronox	95	A07	25	0.79	0.00	0.00
Tronox	95	A10	25	0.08	0.00	0.00

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
Tronox	95	A15	25	1.65	0.00	0.00
Sahara Hotel & Casino	133	1	25	3.15	0.01	0.01
J R Simplot Company	138	1	25	0.52	0.00	0.00
J R Simplot Company	138	2	25	129.27	0.35	0.35
Laughlin Landfill	149	1	25	1.60	0.00	0.00
Tropicana Hotel and Casino	153	1	25	3.81	0.01	0.01
Plaza Hotel and Casino	155	1	25	0.72	0.00	0.00
Bally's Hotel and Casino	256	1	25	2.25	0.01	0.01
Harrah's Las Vegas	257	1	25	2.22	0.01	0.01
Caesars Palace	276	1	25	3.63	0.01	0.01
Mirage/Treasure Island	282	1	25	5.03	0.01	0.01
Catalina Plastic and Coating	323	1	25	2.24	0.01	0.01
Las Vegas Cogeneration	329	1	51	4.11	0.01	0.02
Las Vegas Cogeneration	329	3	51	4.06	0.01	0.02
Las Vegas Cogeneration	329	4	51	3.69	0.01	0.02
Las Vegas Cogeneration	329	5	51	3.80	0.01	0.02
Las Vegas Cogeneration	329	6	51	3.51	0.01	0.02
Las Vegas Cogeneration	329	8	51	0.00	0.00	0.00
Las Vegas Cogeneration	329	9	51	0.00	0.00	0.00
Las Vegas Cogeneration	329	10	51	0.04	0.00	0.00
Las Vegas Cogeneration	329	11	51	0.01	0.00	0.00
NCA #1	360	1	27	38.26	0.10	0.11
NCA #1	360	2	27	37.90	0.10	0.11
NCA #1	360	3	27	35.31	0.10	0.10
NCA #1	360	4	27	0.19	0.00	0.00
NCA #1	360	6	27	0.02	0.00	0.00
NCA #1	360	8	27	0.75	0.00	0.00
Aggregate Industries	372	1	25	2.93	0.01	0.01
Aggregate Industries	372	2	25	0.26	0.00	0.00
Aggregate Industries	372	3	25	0.26	0.00	0.00
Aggregate Industries	372	4	25	0.00	0.00	0.00
Aggregate Industries	372	5	25	0.01	0.00	0.00
Aggregate Industries	372	6	25	1.79	0.00	0.00
Aggregate Industries	372	7	25	0.00	0.00	0.00
Aggregate Industries	372	8	25	0.00	0.00	0.00
Aggregate Industries	372	9	25	0.00	0.00	0.00
Aggregate Industries	372	10	25	0.79	0.00	0.00

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
Aggregate Industries	372	11	25	0.22	0.00	0.00
Aggregate Industries	372	12	25	0.00	0.00	0.00
Aggregate Industries	372	13	25	0.00	0.00	0.00
NCA #2	391	1	27	32.90	0.09	0.10
NCA #2	391	2	27	34.50	0.09	0.10
NCA #2	391	3	27	35.50	0.10	0.11
NCA #2	391	4	27	0.17	0.00	0.00
NCA #2	391	5	27	0.10	0.00	0.00
NCA #2	391	7	27	0.03	0.00	0.00
Saguaro Power Company	393	1	27	54.00	0.15	0.16
Saguaro Power Company	393	2	27	53.13	0.15	0.16
Saguaro Power Company	393	3	27	0.06	0.00	0.00
Saguaro Power Company	393	4	27	0.07	0.00	0.00
Saguaro Power Company	393	5	27	0.68	0.00	0.00
Saguaro Power Company	393	6	27	1.21	0.00	0.00
Saguaro Power Company	393	7	27	0.00	0.00	0.00
Republic DUMPCO (Apex)	395	2	25	0.00	0.00	0.00
Republic DUMPCO (Apex)	395	3	25	29.93	0.08	0.08
Republic DUMPCO (Apex)	395	4	25	0.75	0.00	0.00
Republic DUMPCO (Apex)	395	5	25	0.00	0.00	0.00
Republic DUMPCO (Apex)	395	6	25	2.12	0.01	0.01
Republic DUMPCO (Apex)	395	7	25	0.10	0.00	0.00
City of Las Vegas WPCF	402	1	25	0.00	0.00	0.00
City of Las Vegas WPCF	402	2	25	0.70	0.00	0.00
City of Las Vegas WPCF	402	3	25	0.15	0.00	0.00
City of Las Vegas WPCF	402	4	25	0.00	0.00	0.00
City of Las Vegas WPCF	402	5	25	4.35	0.01	0.01
City of Las Vegas WPCF	402	6	25	17.16	0.05	0.05
City of Las Vegas WPCF	402	7	25	0.89	0.00	0.00
City of Las Vegas WPCF	402	8	25	0.00	0.00	0.00
Nevada Sun Peak Partnerships	423	1	37	6.97	0.02	0.03
Nevada Sun Peak Partnerships	423	2	37	4.89	0.01	0.02
Nevada Sun Peak Partnerships	423	3	37	5.48	0.02	0.02
Fitzgeralds	434	1	25	0.00	0.00	0.00
Kern River (Goodsprings)	468	1	25	62.78	0.17	0.17
Capital Cabinets	482	1	25	0.00	0.00	0.00
Nevada Ready Mix	512	1	25	0.05	0.00	0.00

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
NV Energy (Harry Allen)	533	1	80	4.30	0.01	0.04
NV Energy (Harry Allen)	533	2	80	0.21	0.00	0.00
NV Energy (Harry Allen)	533	3	80	34.73	0.10	0.30
NV Energy (Harry Allen)	533	4	80	35.14	0.10	0.31
NV Energy (Harry Allen)	533	7	80	0.02	0.00	0.00
NV Energy (Harry Allen)	533	8	80	0.14	0.00	0.00
NV Energy (Harry Allen)	533	9	80	2.40	0.01	0.02
NV Energy (Harry Allen)	533	10	80	0.02	0.00	0.00
Stratosphere Hotel & Casino	564	1	25	4.61	0.01	0.01
Georgia Pacific	593	C01	25	1.32	0.00	0.00
Georgia Pacific	593	C02	25	1.19	0.00	0.00
Georgia Pacific	593	C03	25	2.71	0.01	0.01
Georgia Pacific	593	C04	25	2.41	0.01	0.01
Georgia Pacific	593	C05	25	1.85	0.01	0.01
Georgia Pacific	593	E03	25	25.12	0.07	0.07
Georgia Pacific	593	E105	25	4.18	0.01	0.01
Georgia Pacific	593	E106	25	0.00	0.00	0.00
Georgia Pacific	593	E110	25	0.00	0.00	0.00
Georgia Pacific	593	E111	25	0.00	0.00	0.00
Georgia Pacific	593	E145	25	0.00	0.00	0.00
Georgia Pacific	593	E146	25	0.00	0.00	0.00
Georgia Pacific	593	E147	25	0.00	0.00	0.00
Georgia Pacific	593	E148	25	0.00	0.00	0.00
Georgia Pacific	593	E153	25	0.00	0.00	0.00
Georgia Pacific	593	E154	25	0.00	0.00	0.00
Georgia Pacific	593	G33	25	0.00	0.00	0.00
Georgia Pacific	593	G34	25	0.08	0.00	0.00
Georgia Pacific	593	Z01	25	0.00	0.00	0.00
Las Vegas Club	603	1	25	0.00	0.00	0.00
Excalibur Hotel and Casino	609	1	25	7.03	0.02	0.02
Bill's Gambling Hall	611	1	25	0.47	0.00	0.00
Imperial Palace Hotel & Casino	613	1	25	1.16	0.00	0.00
El Dorado Energy	652	A01	27	50.88	0.14	0.15
El Dorado Energy	652	A02	27	50.07	0.14	0.15
El Dorado Energy	652	A03	27	0.31	0.00	0.00
Venetian Hotel and Casino	697	1	25	13.03	0.04	0.04
Mandalay Bay/Four Seasons	737	1	25	16.83	0.05	0.05

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
Paris Hotel and Casino	749	1	25	3.32	0.01	0.01
Bellagio/Boardwalk	756	1	25	4.99	0.01	0.01
MGM Grand/NY New York	825	1	25	22.24	0.06	0.06
Las Vegas Valley Water Dist.	837	1	25	1.66	0.00	0.00
Luxor Hotel and Casino	856	1	25	7.21	0.02	0.02
NV Energy (Chuck Lenzie)	1513	1	25	54.27	0.15	0.15
NV Energy (Chuck Lenzie)	1513	3	25	63.57	0.17	0.17
NV Energy (Chuck Lenzie)	1513	5	25	53.62	0.15	0.15
NV Energy (Chuck Lenzie)	1513	7	25	62.54	0.17	0.17
NV Energy (Chuck Lenzie)	1513	9	25	0.01	0.00	0.00
NV Energy (Chuck Lenzie)	1513	10	25	0.21	0.00	0.00
NV Energy (Chuck Lenzie)	1513	12	25	0.15	0.00	0.00
NV Energy (Chuck Lenzie)	1513	13	25	0.15	0.00	0.00
NV Energy (Chuck Lenzie)	1513	14	25	0.05	0.00	0.00
NV Energy (Chuck Lenzie)	1513	15	25	0.00	0.00	0.00
NV Energy (Chuck Lenzie)	1513	16	25	0.00	0.00	0.00
Las Vegas Power Company	1520	A01,2	45	46.80	0.13	0.23
Las Vegas Power Company	1520	A03,4	45	45.80	0.13	0.23
Las Vegas Power Company	1520	A05	45	2.10	0.01	0.01
Las Vegas Power Company	1520	A06	45	0.03	0.00	0.00
Las Vegas Power Company	1520	A07	45	0.12	0.00	0.00
NV Energy (Walter Higgins)	1550	A01,2	31	35.71	0.10	0.12
NV Energy (Walter Higgins)	1550	A03,4	31	43.61	0.12	0.15
NV Energy (Walter Higgins)	1550	A05	31	0.40	0.00	0.00
NV Energy (Walter Higgins)	1550	A06	31	0.06	0.00	0.00
NV Energy (Silverhawk)	1584	A01	30	43.92	0.12	0.14
NV Energy (Silverhawk)	1584	A03	30	42.01	0.12	0.14
NV Energy (Silverhawk)	1584	A05	30	0.58	0.00	0.00
NV Energy (Silverhawk)	1584	A06	30	0.01	0.00	0.00
Kern River (Dry Lake-Apex)	1590	1	25	36.82	0.10	0.10
Republic Services (Sunrise)	15033	1	25	4.31	0.01	0.01
NV Energy (State-Clark Station)	AP398	1	25	0.00	0.00	0.00
NV Energy (State-Clark Station)	AP398	2	25	0.00	0.00	0.00
NV Energy (State-Clark Station)	AP398	3	25	0.00	0.00	0.00
NV Energy (State-Sunrise Stn)	AP399	1	51	0.00	0.00	0.00
NV Energy (Reid-Gardner)	AP400	1	27	0.00	0.00	0.00
NV Energy (Reid-Gardner)	AP400	2	27	0.00	0.00	0.00

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
NV Energy (Reid-Gardner)	AP400	3	27	0.00	0.00	0.00
NV Energy (Reid-Gardner)	AP400	4	27	522.28	1.43	1.55
Las Vegas Paving (Lone Mtn.)	105	All	25	50.14	0.14	0.14
Aggregate Industries (5th Street)	587	All	25	3.29	0.01	0.01
Primm Valley Resorts	617	All	25	15.59	0.04	0.04
University of Nevada, Las Vegas	634	All	25	7.91	0.02	0.02
Clearwater Paper	807	All	25	36.86	0.10	0.10
World Market Center	15541	All	25	4.48	0.01	0.01
Switch Communications	16304	All	25	20.50	0.06	0.06
CC Landfill Energy LLC	16539	All	25	26.14	0.07	0.07
Geneva Polymer Products	16948	All	25	0.10	0.00	0.00
TOTAL				**3840.38**	**10.52**	**11.60**

Table A4: 2015 Actual VOC Emissions

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
Chemical Lime (Apex)	3	1	25	0.00	0.0000	0.0000
Chemical Lime (Apex)	3	2	25	0.56	0.0015	0.0015
Chemical Lime (Apex)	3	3	25	0.09	0.0002	0.0002
Chemical Lime (Apex)	3	4	25	0.38	0.0010	0.0010
Chemical Lime (Apex)	3	5	25	2.28	0.0062	0.0062
Chemical Lime (Apex)	3	7	25	0.00	0.0000	0.0000
Chemical Lime (Apex)	3	10	25	0.03	0.0001	0.0001
Chemical Lime (Apex)	3	28	25	1.31	0.0036	0.0036
Certain Teed Gypsum	4	1	25	0.26	0.0007	0.0007
Certain Teed Gypsum	4	4-E11	25	0.27	0.0007	0.0007
Certain Teed Gypsum	4	4-F1	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-F2	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-F3	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-F4	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-G1	25	0.31	0.0008	0.0008
Certain Teed Gypsum	4	4-G1a	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-G1b	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-G1c	25	0.00	0.0000	0.0000
Certain Teed Gypsum	4	4-J3	25	0.65	0.0018	0.0018
Certain Teed Gypsum	4	4-L4	25	0.05	0.0001	0.0001
Certain Teed Gypsum	4	B8	25	0.03	0.0001	0.0001

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
Certain Teed Gypsum	4	J2	25	0.00	0.0000	0.0000
Chemical Lime (Henderson)	5	1	25	0.15	0.0004	0.0004
NV Energy (Clark Station)	7	4	27	0.29	0.0008	0.0009
NV Energy (Clark Station)	7	5	27	3.01	0.0082	0.0089
NV Energy (Clark Station)	7	6	27	2.76	0.0076	0.0082
NV Energy (Clark Station)	7	7	27	3.36	0.0092	0.0099
NV Energy (Clark Station)	7	8	27	3.22	0.0088	0.0095
NV Energy (Clark Station)	7	21	27	0.01	0.0000	0.0000
NV Energy (Clark Station)	7	22	27	0.00	0.0000	0.0000
NV Energy (Clark Station)	7	27	27	0.34	0.0009	0.0010
NV Energy (Clark Station)	7	28	27	0.28	0.0008	0.0008
NV Energy (Clark Station)	7	29	27	0.21	0.0006	0.0006
NV Energy (Clark Station)	7	30	27	0.29	0.0008	0.0009
NV Energy (Clark Station)	7	31	27	0.34	0.0009	0.0010
NV Energy (Clark Station)	7	32	27	0.39	0.0011	0.0012
NV Energy (Clark Station)	7	33	27	0.36	0.0010	0.0011
NV Energy (Clark Station)	7	34	27	0.39	0.0011	0.0012
NV Energy (Clark Station)	7	35	27	0.36	0.0010	0.0011
NV Energy (Clark Station)	7	36	27	0.48	0.0013	0.0014
NV Energy (Clark Station)	7	37	27	0.41	0.0011	0.0012
NV Energy (Clark Station)	7	38	27	0.36	0.0010	0.0011
NV Energy (Clark Station)	7	45	27	0.01	0.0000	0.0000
NV Energy (Clark Station)	7	46	27	0.00	0.0000	0.0000
NV Energy (Sunrise Station)	8	8_01	100	0.00	0.0000	0.0000
NV Energy (Sunrise Station)	8	8_02	100	0.00	0.0000	0.0000
PABCO Gypsum	11	1	25	24.70	0.0677	0.0677
PABCO Gypsum	11	01a	25	1.51	0.0041	0.0041
PABCO Gypsum	11	5	25	0.00	0.0000	0.0000
PABCO Gypsum	11	9	25	0.08	0.0002	0.0002
PABCO Gypsum	11	10	25	0.08	0.0002	0.0002
PABCO Gypsum	11	11	25	0.08	0.0002	0.0002
PABCO Gypsum	11	12	25	0.04	0.0001	0.0001
PABCO Gypsum	11	13	25	0.04	0.0001	0.0001
PABCO Gypsum	11	14	25	0.04	0.0001	0.0001
PABCO Gypsum	11	18	25	2.01	0.0055	0.0055
PABCO Gypsum	11	18a	25	0.04	0.0001	0.0001
PABCO Gypsum	11	19	25	2.26	0.0062	0.0062

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
PABCO Gypsum	11	19a	25	0.04	0.0001	0.0001
PABCO Gypsum	11	20	25	1.55	0.0043	0.0043
PABCO Gypsum	11	20a	25	0.03	0.0001	0.0001
PABCO Gypsum	11	21	25	0.60	0.0016	0.0016
PABCO Gypsum	11	21a	25	0.01	0.0000	0.0000
PABCO Gypsum	11	22	25	0.54	0.0015	0.0015
PABCO Gypsum	11	22a	25	0.01	0.0000	0.0000
PABCO Gypsum	11	25	25	0.26	0.0007	0.0007
PABCO Gypsum	11	26	25	0.26	0.0007	0.0007
PABCO Gypsum	11	30	25	0.26	0.0007	0.0007
PABCO Gypsum	11	31	25	0.26	0.0007	0.0007
PABCO Gypsum	11	32	25	0.26	0.0007	0.0007
PABCO Gypsum	11	36	25	0.48	0.0013	0.0013
PABCO Gypsum	11	45	25	0.27	0.0007	0.0007
PABCO Gypsum	11	46	25	0.27	0.0007	0.0007
PABCO Gypsum	11	48	25	0.00	0.0000	0.0000
PABCO Gypsum	11	50	25	0.52	0.0014	0.0014
PABCO Gypsum	11	51	25	0.52	0.0014	0.0014
PABCO Gypsum	11	52	25	0.52	0.0014	0.0014
Wells Cargo	12	1	25	7.36	0.0202	0.0202
Wells Cargo	12	2	25	0.03	0.0001	0.0001
Wells Cargo	12	3	25	8.39	0.0230	0.0230
Kinder Morgan	13	1	25	1.24	0.0034	0.0034
Kinder Morgan	13	2	25	1.24	0.0034	0.0034
Kinder Morgan	13	3	25	1.24	0.0034	0.0034
Kinder Morgan	13	4	25	1.24	0.0034	0.0034
Kinder Morgan	13	5	25	1.24	0.0034	0.0034
Kinder Morgan	13	6	25	1.24	0.0034	0.0034
Kinder Morgan	13	7	25	1.24	0.0034	0.0034
Kinder Morgan	13	8	25	1.24	0.0034	0.0034
Kinder Morgan	13	9	25	1.24	0.0034	0.0034
Kinder Morgan	13	10	25	1.24	0.0034	0.0034
Kinder Morgan	13	11	25	1.24	0.0034	0.0034
Kinder Morgan	13	12	25	1.24	0.0034	0.0034
Kinder Morgan	13	13	25	1.24	0.0034	0.0034
Kinder Morgan	13	14	25	1.24	0.0034	0.0034
Kinder Morgan	13	15	25	1.24	0.0034	0.0034

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
Kinder Morgan	13	16	25	1.24	0.0034	0.0034
Kinder Morgan	13	17	25	1.24	0.0034	0.0034
Kinder Morgan	13	18	25	1.24	0.0034	0.0034
Kinder Morgan	13	19	25	1.24	0.0034	0.0034
Kinder Morgan	13	20	25	1.24	0.0034	0.0034
Kinder Morgan	13	21	25	1.24	0.0034	0.0034
Kinder Morgan	13	22	25	1.24	0.0034	0.0034
Kinder Morgan	13	23	25	1.24	0.0034	0.0034
Kinder Morgan	13	24	25	1.24	0.0034	0.0034
Kinder Morgan	13	26	25	1.24	0.0034	0.0034
Kinder Morgan	13	27	25	1.24	0.0034	0.0034
Kinder Morgan	13	28	25	1.24	0.0034	0.0034
Kinder Morgan	13	29	25	1.24	0.0034	0.0034
Kinder Morgan	13	30	25	1.24	0.0034	0.0034
Kinder Morgan	13	31	25	1.24	0.0034	0.0034
Kinder Morgan	13	32	25	1.24	0.0034	0.0034
Kinder Morgan	13	33	25	1.24	0.0034	0.0034
Kinder Morgan	13	34	25	1.24	0.0034	0.0034
Kinder Morgan	13	36	25	1.24	0.0034	0.0034
Kinder Morgan	13	37	25	1.24	0.0034	0.0034
Kinder Morgan	13	38	25	1.24	0.0034	0.0034
Kinder Morgan	13	39	25	1.24	0.0034	0.0034
Kinder Morgan	13	42	25	1.24	0.0034	0.0034
Kinder Morgan	13	45	25	1.24	0.0034	0.0034
Kinder Morgan	13	46	25	1.24	0.0034	0.0034
Kinder Morgan	13	47	25	1.24	0.0034	0.0034
Kinder Morgan	13	48	25	1.24	0.0034	0.0034
Kinder Morgan	13	53	25	1.24	0.0034	0.0034
Kinder Morgan	13	54	25	1.24	0.0034	0.0034
Kinder Morgan	13	56	25	1.24	0.0034	0.0034
Kinder Morgan	13	57	25	1.24	0.0034	0.0034
Kinder Morgan	13	58	25	1.24	0.0034	0.0034
Kinder Morgan	13	59	25	1.24	0.0034	0.0034
Kinder Morgan	13	60	25	1.24	0.0034	0.0034
Kinder Morgan	13	61	25	1.24	0.0034	0.0034
Kinder Morgan	13	B01	25	0.00	0.0000	0.0000
Kinder Morgan	13	B02	25	0.00	0.0000	0.0000

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
Kinder Morgan	13	B04	25	0.00	0.0000	0.0000
Kinder Morgan	13	B05	25	0.00	0.0000	0.0000
Kinder Morgan	13	B06	25	0.00	0.0000	0.0000
Kinder Morgan	13	B10	25	0.01	0.0000	0.0000
Kinder Morgan	13	D02	25	0.01	0.0000	0.0000
Kinder Morgan	13	SR04	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	A01	25	0.74	0.0020	0.0020
Titanium Metals Corp.	19	B06	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	B09	25	0.18	0.0005	0.0005
Titanium Metals Corp.	19	B10	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	C05	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	D02E	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	D02W	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	E03	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	G02	25	0.00	0.0000	0.0000
Titanium Metals Corp.	19	G10	25	0.01	0.0000	0.0000
Titanium Metals Corp.	19	M11	25	0.00	0.0000	0.0000
Planet Hollywood	26	1	25	0.04	0.0001	0.0001
Circus Circus Hotel & Casino	47	1	25	0.67	0.0018	0.0018
Flamingo Las Vegas	73	1	25	0.50	0.0014	0.0014
Monte Carlo Hotel & Casino	74	1	25	0.42	0.0012	0.0012
LASCO Bathware	75	1	25	6.18	0.0169	0.0169
Four Queens Hotel & Casino	76	1	25	0.19	0.0005	0.0005
Fremont Hotel	77	1	25	0.21	0.0006	0.0006
Golden Nugget Hotel & Casino	81	1	25	0.23	0.0006	0.0006
Horseshoe Club	85	1	25	0.52	0.0014	0.0014
Riviera Hotel and Casino	86	1	25	0.00	0.0000	0.0000
Tronox	95	A01	25	0.00	0.0000	0.0000
Tronox	95	A02	25	0.00	0.0000	0.0000
Tronox	95	A03	25	0.00	0.0000	0.0000
Tronox	95	A04	25	0.01	0.0000	0.0000
Tronox	95	A05	25	0.73	0.0020	0.0020
Tronox	95	A07	25	0.04	0.0001	0.0001
Tronox	95	A10	25	0.00	0.0000	0.0000
Tronox	95	A15	25	0.01	0.0000	0.0000
Tronox	95	A17	25	0.00	0.0000	0.0000
Sahara Hotel and Casino	133	1	25	0.25	0.0007	0.0007

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
J R Simplot Company	138	2	25	0.44	0.0012	0.0012
Laughlin Landfill	149	1	25	3.06	0.0084	0.0084
Tropicana Hotel and Casino	153	1	25	0.26	0.0007	0.0007
Plaza Hotel and Casino	155	1	25	0.19	0.0005	0.0005
Bally's Hotel and Casino	256	1	25	0.32	0.0009	0.0009
Harrah's Las Vegas	257	1	25	0.32	0.0009	0.0009
Caesars Palace	276	1	25	0.49	0.0013	0.0013
Mirage/Treasure Island	282	1	25	0.94	0.0026	0.0026
Catalina Plastic and Coating	323	1	25	11.53	0.0316	0.0316
Las Vegas Cogeneration	329	1	51	0.77	0.0021	0.0043
Las Vegas Cogeneration	329	3	51	1.82	0.0050	0.0102
Las Vegas Cogeneration	329	4	51	1.75	0.0048	0.0098
Las Vegas Cogeneration	329	5	51	1.88	0.0052	0.0105
Las Vegas Cogeneration	329	6	51	1.68	0.0046	0.0094
Las Vegas Cogeneration	329	8	51	0.00	0.0000	0.0000
Las Vegas Cogeneration	329	9	51	0.00	0.0000	0.0000
Las Vegas Cogeneration	329	10	51	0.01	0.0000	0.0001
Las Vegas Cogeneration	329	11	51	0.00	0.0000	0.0000
NCA #1	360	1	27	8.52	0.0233	0.0252
NCA #1	360	2	27	8.41	0.0230	0.0249
NCA #1	360	3	27	8.53	0.0234	0.0252
NCA #1	360	4	27	0.00	0.0000	0.0000
NCA #1	360	6	27	0.01	0.0000	0.0000
NCA #1	360	8	27	0.13	0.0004	0.0004
Aggregate Industries	372	1	25	0.28	0.0008	0.0008
Aggregate Industries	372	2	25	0.01	0.0000	0.0000
Aggregate Industries	372	3	25	0.00	0.0000	0.0000
Aggregate Industries	372	4	25	0.00	0.0000	0.0000
Aggregate Industries	372	5	25	0.01	0.0000	0.0000
Aggregate Industries	372	6	25	0.00	0.0000	0.0000
Aggregate Industries	372	7	25	0.00	0.0000	0.0000
Aggregate Industries	372	8	25	0.00	0.0000	0.0000
Aggregate Industries	372	9	25	0.18	0.0005	0.0005
Aggregate Industries	372	10	25	0.00	0.0000	0.0000
Aggregate Industries	372	12	25	0.00	0.0000	0.0000
Aggregate Industries	372	13	25	0.02	0.0001	0.0001
NCA #2	391	1	27	8.56	0.0235	0.0253

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
NCA #2	391	2	27	8.47	0.0232	0.0251
NCA #2	391	3	27	8.54	0.0234	0.0253
NCA #2	391	4	27	0.00	0.0000	0.0000
NCA #2	391	5	27	0.01	0.0000	0.0000
NCA #2	391	7	27	0.01	0.0000	0.0000
Saguaro Power Company	393	1	27	3.88	0.0106	0.0115
Saguaro Power Company	393	2	27	3.88	0.0106	0.0115
Saguaro Power Company	393	3	27	0.01	0.0000	0.0000
Saguaro Power Company	393	4	27	0.01	0.0000	0.0000
Saguaro Power Company	393	5	27	0.28	0.0008	0.0008
Saguaro Power Company	393	6	27	0.18	0.0005	0.0005
Saguaro Power Company	393	7	27	0.00	0.0000	0.0000
Saguaro Power Company	393	9	27	0.05	0.0001	0.0001
Republic DUMPCO (Apex)	395	2	25	0.00	0.0000	0.0000
Republic DUMPCO (Apex)	395	3	25	1.90	0.0052	0.0052
Republic DUMPCO (Apex)	395	4	25	0.35	0.0010	0.0010
Republic DUMPCO (Apex)	395	5	25	5.20	0.0142	0.0142
Republic DUMPCO (Apex)	395	6	25	26.64	0.0730	0.0730
Republic DUMPCO (Apex)	395	7	25	0.04	0.0001	0.0001
City of Las Vegas WPCF	402	1	25	0.00	0.0000	0.0000
City of Las Vegas WPCF	402	2	25	0.04	0.0001	0.0001
City of Las Vegas WPCF	402	3	25	0.01	0.0000	0.0000
City of Las Vegas WPCF	402	4	25	0.00	0.0000	0.0000
City of Las Vegas WPCF	402	5	25	0.25	0.0007	0.0007
City of Las Vegas WPCF	402	6	25	6.04	0.0165	0.0165
City of Las Vegas WPCF	402	7	25	0.01	0.0000	0.0000
City of Las Vegas WPCF	402	8	25	0.39	0.0011	0.0011
Nevada Sun Peak Partnerships	423	1	37	0.11	0.0003	0.0004
Nevada Sun Peak Partnerships	423	2	37	0.08	0.0002	0.0003
Nevada Sun Peak Partnerships	423	3	37	0.09	0.0002	0.0004
Fitzgeralds	434	1	25	0.00	0.0000	0.0000
Kern River (Goodsprings)	468	1	25	8.16	0.0224	0.0224
Capital Cabinets	482	1	25	0.00	0.0000	0.0000
Nevada Ready Mix	512	1	25	0.04	0.0001	0.0001
Boulder City Landfill	527	1	25	8.43	0.0231	0.0231
NV Energy (Harry Allen)	533	1	80	0.24	0.0007	0.0021
NV Energy (Harry Allen)	533	2	80	0.01	0.0000	0.0001

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
NV Energy (Harry Allen)	533	3	80	23.51	0.0644	0.2061
NV Energy (Harry Allen)	533	4	80	23.73	0.0650	0.2080
NV Energy (Harry Allen)	533	7	80	0.00	0.0000	0.0000
NV Energy (Harry Allen)	533	8	80	0.01	0.0000	0.0001
NV Energy (Harry Allen)	533	9	80	0.26	0.0007	0.0023
NV Energy (Harry Allen)	533	10	80	0.00	0.0000	0.0000
Stratosphere Hotel & Casino	564	1	25	0.44	0.0012	0.0012
Georgia Pacific	593	C01	25	0.09	0.0002	0.0002
Georgia Pacific	593	C02	25	0.08	0.0002	0.0002
Georgia Pacific	593	C03	25	0.19	0.0005	0.0005
Georgia Pacific	593	C04	25	0.17	0.0005	0.0005
Georgia Pacific	593	C05	25	0.13	0.0004	0.0004
Georgia Pacific	593	E03	25	2.10	0.0058	0.0058
Georgia Pacific	593	E105	25	0.26	0.0007	0.0007
Georgia Pacific	593	E106	25	0.00	0.0000	0.0000
Georgia Pacific	593	E110	25	0.00	0.0000	0.0000
Georgia Pacific	593	E111	25	0.00	0.0000	0.0000
Georgia Pacific	593	E145	25	0.00	0.0000	0.0000
Georgia Pacific	593	E146	25	0.00	0.0000	0.0000
Georgia Pacific	593	E147	25	0.00	0.0000	0.0000
Georgia Pacific	593	E148	25	0.00	0.0000	0.0000
Georgia Pacific	593	E153	25	0.00	0.0000	0.0000
Georgia Pacific	593	E154	25	0.00	0.0000	0.0000
Georgia Pacific	593	G33	25	0.00	0.0000	0.0000
Georgia Pacific	593	G34	25	0.00	0.0000	0.0000
Georgia Pacific	593	Z01	25	11.82	0.0324	0.0324
Las Vegas Club	603	1	25	0.00	0.0000	0.0000
Excalibur Hotel and Casino	609	1	25	0.92	0.0025	0.0025
Bill's Gambling Hall	611	1	25	0.15	0.0004	0.0004
Imperial Palace Hotel & Casino	613	1	25	0.10	0.0003	0.0003
El Dorado Energy	652	A01	27	12.97	0.0355	0.0384
El Dorado Energy	652	A02	27	12.76	0.0350	0.0378
El Dorado Energy	652	A03	27	0.01	0.0000	0.0000
El Dorado Energy	652	A07	27	0.00	0.0000	0.0000
Venetian Hotel and Casino	697	1	25	2.82	0.0077	0.0077
Mandalay Bay/Four Seasons	737	1	25	2.84	0.0078	0.0078
Paris Hotel and Casino	749	1	25	0.51	0.0014	0.0014

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
Bellagio/Boardwalk	756	1	25	1.37	0.0038	0.0038
MGM Grand/NY New York	825	1	25	4.05	0.0111	0.0111
Las Vegas Valley Water Dist.	837	1	25	0.07	0.0002	0.0002
Luxor Hotel and Casino	856	1	25	1.09	0.0030	0.0030
Universal Urethane	859	1	25	18.63	0.0510	0.0510
NV Energy (Chuck Lenzie)	1513	1	25	21.19	0.0581	0.0581
NV Energy (Chuck Lenzie)	1513	3	25	21.38	0.0586	0.0586
NV Energy (Chuck Lenzie)	1513	5	25	20.89	0.0572	0.0572
NV Energy (Chuck Lenzie)	1513	7	25	21.05	0.0577	0.0577
NV Energy (Chuck Lenzie)	1513	9	25	0.00	0.0000	0.0000
NV Energy (Chuck Lenzie)	1513	10	25	0.03	0.0001	0.0001
NV Energy (Chuck Lenzie)	1513	12	25	0.01	0.0000	0.0000
NV Energy (Chuck Lenzie)	1513	13	25	0.01	0.0000	0.0000
NV Energy (Chuck Lenzie)	1513	14	25	0.01	0.0000	0.0000
NV Energy (Chuck Lenzie)	1513	15	25	0.00	0.0000	0.0000
NV Energy (Chuck Lenzie)	1513	16	25	0.00	0.0000	0.0000
Las Vegas Power Company	1520	A01,2	45	27.60	0.0756	0.1361
Las Vegas Power Company	1520	A03,4	45	28.20	0.0773	0.1391
Las Vegas Power Company	1520	A05	45	0.10	0.0003	0.0005
Las Vegas Power Company	1520	A06	45	0.01	0.0000	0.0000
Las Vegas Power Company	1520	A07	45	0.15	0.0004	0.0007
NV Energy (Walter Higgins)	1550	A01,2	31	10.73	0.0294	0.0365
NV Energy (Walter Higgins)	1550	A03,4	31	13.15	0.0360	0.0447
NV Energy (Walter Higgins)	1550	A05	31	0.01	0.0000	0.0000
NV Energy (Walter Higgins)	1550	A06	31	0.01	0.0000	0.0000
NV Energy (Silverhawk)	1584	A01	30	24.23	0.0664	0.0797
NV Energy (Silverhawk)	1584	A03	30	24.87	0.0681	0.0818
NV Energy (Silverhawk)	1584	A05	30	0.12	0.0003	0.0004
NV Energy (Silverhawk)	1584	A06	30	0.00	0.0000	0.0000
Kern River (Dry Lake-Apex)	1590	1	25	6.07	0.0166	0.0166
Republic Services (Sunrise)	15033	1	25	2.44	0.0067	0.0067
NV Energy (State-Clark Station)	AP398	1	25	0.00	0.0000	0.0000
NV Energy (State-Clark Station)	AP398	2	25	0.00	0.0000	0.0000
NV Energy (State-Clark Station)	AP398	3	25	0.00	0.0000	0.0000
NV Energy (State-Sunrise Stn)	AP399	1	51	0.00	0.0000	0.0000
NV Energy (Reid-Gardner)	AP400	1	27	0.00	0.0000	0.0000
NV Energy (Reid-Gardner)	AP400	2	27	0.00	0.0000	0.0000

Facility Name	Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	2015 NO_x Emissions (tons/day)	2015 NO_x Summer Emissions (tons/day)
NV Energy (Reid-Gardner)	AP400	3	27	0.00	0.0000	0.0000
NV Energy (Reid-Gardner)	AP400	4	27	0.00	0.0000	0.0000
NV Energy (Reid-Gardner)	AP400	5	27	0.00	0.0000	0.0000
Las Vegas Paving (Lone Mtn.)	105	All	25	6.50	0.0178	0.0178
Aggregate Industries (5th Street)	587	All	25	3.98	0.0109	0.0109
Primm Valley Resorts	617	All	25	14.67	0.0402	0.0402
University of Nevada, Las Vegas	634	All	25	1.30	0.0036	0.0036
Clearwater Paper	807	All	25	25.69	0.0704	0.0704
World Market Center	15541	All	25	0.12	0.0003	0.0003
Switch Communications	16304	All	25	0.30	0.0008	0.0008
CC Landfill Energy LLC	16539	All	25	8.09	0.0222	0.0222
Geneva Polymer Products	16948	All	25	4.90	0.0134	0.0134
				701.81	**1.9228**	**2.4215**

Table A5: 2022 Projected NO_x Emissions

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	Growth Factor	2022 NO_x Emissions (tons/year)	2022 NO_x Emissions (tons/day)	2022 NO_x Summer Emissions (tons/day)
3	1	25	0.00	1.00	0.00	0.00	0.00
3	2	25	309.29	1.39	429.91	1.18	1.18
3	3	25	42.38	1.39	58.91	0.16	0.16
3	4	25	218.77	1.39	304.09	0.83	0.83
3	5	25	700.39	1.39	973.54	2.67	2.67
3	7	25	0.00	1.00	0.00	0.00	0.00
3	10	25	0.48	1.39	0.67	0.00	0.00
3	28	25	9.21	1.39	12.80	0.04	0.04
4	4-E11	25	6.88	1.26	8.67	0.02	0.02
4	4-F1	25	0.00	1.26	0.00	0.00	0.00
4	4-F2	25	0.00	1.26	0.00	0.00	0.00
4	4-F3	25	0.00	1.26	0.00	0.00	0.00
4	4-F4	25	0.00	1.26	0.00	0.00	0.00
4	4-G1	25	5.81	1.26	7.32	0.02	0.02
4	4-G1a	25	0.00	1.26	0.00	0.00	0.00
4	4-G1b	25	0.00	1.26	0.00	0.00	0.00
4	4-G1c	25	0.00	1.26	0.00	0.00	0.00
4	4-J3	25	10.68	1.26	13.46	0.04	0.04
4	4-L4	25	0.68	1.08	0.73	0.00	0.00
4	B8	25	0.10	1.08	0.11	0.00	0.00
4	J2	25	0.00	1.26	0.00	0.00	0.00
5	1	25	0.15	1.41	0.21	0.00	0.00
7	4	27	4.88	0.56	2.73	0.01	0.01
7	5	27	12.38	0.56	6.93	0.02	0.02
7	6	27	11.8	0.56	6.61	0.02	0.02
7	7	27	12.89	0.56	7.22	0.02	0.02
7	8	27	14.8	0.56	8.29	0.02	0.02
7	21	27	0.02	1.20	0.02	0.00	0.00
7	22	27	0	1.20	0.00	0.00	0.00
7	27	27	4.03	1.20	4.84	0.01	0.01
7	28	27	2.68	1.20	3.22	0.01	0.01
7	29	27	2.13	1.20	2.56	0.01	0.01
7	30	27	3.19	1.20	3.83	0.01	0.01
7	31	27	3.22	1.20	3.86	0.01	0.01
7	32	27	3.89	1.20	4.67	0.01	0.01

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	Growth Factor	2022 NO_x Emissions (tons/year)	2022 NO_x Emissions (tons/day)	2022 NO_x Summer Emissions (tons/day)
7	33	27	3.38	1.20	4.06	0.01	0.01
7	34	27	3.79	1.20	4.55	0.01	0.01
7	35	27	3.51	1.20	4.21	0.01	0.01
7	36	27	4.55	1.20	5.46	0.01	0.02
7	37	27	4.3	1.20	5.16	0.01	0.02
7	38	27	3.93	1.20	4.72	0.01	0.01
7	45	27	0.01	1.20	0.01	0.00	0.00
7	46	27	0	1.20	0.00	0.00	0.00
8	8_01	100	0.00	0.56	0.00	0.00	0.00
8	8_02	100	0.00	1.20	0.00	0.00	0.00
11	1	25	0.00	1.18	0.00	0.00	0.00
11	01a	25	18.40	1.18	21.71	0.06	0.06
11	5	25	0.00	1.39	0.00	0.00	0.00
11	9	25	0.92	1.39	1.28	0.00	0.00
11	10	25	0.92	1.39	1.28	0.00	0.00
11	11	25	0.92	1.39	1.28	0.00	0.00
11	12	25	0.46	1.39	0.64	0.00	0.00
11	13	25	0.46	1.39	0.64	0.00	0.00
11	14	25	0.46	1.39	0.64	0.00	0.00
11	18	25	20.524	1.39	28.53	0.08	0.08
11	18a	25	1.95	1.39	2.70	0.01	0.01
11	19	25	23.12	1.39	32.13	0.09	0.09
11	19a	25	2.19	1.39	3.04	0.01	0.01
11	20	25	15.89	1.39	22.09	0.06	0.06
11	20a	25	1.51	1.39	2.09	0.01	0.01
11	21	25	6.15	1.39	8.55	0.02	0.02
11	21a	25	0.58	1.39	0.81	0.00	0.00
11	22	25	5.56	1.39	7.72	0.02	0.02
11	22a	25	0.53	1.39	0.73	0.00	0.00
11	25	25	4.95	1.39	6.88	0.02	0.02
11	26	25	4.95	1.39	6.88	0.02	0.02
11	30	25	13.15	1.39	18.28	0.05	0.05
11	31	25	13.15	1.39	18.28	0.05	0.05
11	32	25	13.15	1.39	18.28	0.05	0.05
11	36	25	6.91	1.39	9.60	0.03	0.03
11	45	25	6.93	1.39	9.63	0.03	0.03
11	46	25	6.93	1.39	9.63	0.03	0.03

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	Growth Factor	2022 NO_x Emissions (tons/year)	2022 NO_x Emissions (tons/day)	2022 NO_x Summer Emissions (tons/day)
11	48	25	0	1.39	0.00	0.00	0.00
11	50	25	13.15	1.39	18.28	0.05	0.05
11	51	25	13.15	1.39	18.28	0.05	0.05
11	52	25	13.15	1.39	18.28	0.05	0.05
12	1	25	5.98	1.40	8.37	0.02	0.02
12	2	25	0.45	1.37	0.62	0.00	0.00
12	3	25	8.19	1.37	11.22	0.03	0.03
13	B10	25	0.00	0.96	0.00	0.00	0.00
13	D02	25	0.06	1.00	0.06	0.00	0.00
13	SR04	25	0.00	1.25	0.00	0.00	0.00
19	A01	25	0.23	1.49	0.35	0.00	0.00
19	B06	25	8.83	1.33	11.74	0.03	0.03
19	B09	25	1.30	0.90	1.17	0.00	0.00
19	B10	25	0.08	1.49	0.12	0.00	0.00
19	C05	25	0.42	1.49	0.63	0.00	0.00
19	D02E	25	0.00	1.49	0.00	0.00	0.00
19	D02W	25	0.00	1.49	0.00	0.00	0.00
19	E03	25	0.05	1.49	0.07	0.00	0.00
19	G02	25	0.00	1.20	0.00	0.00	0.00
19	G10	25	0.01	1.20	0.01	0.00	0.00
19	M11	25	0.00	1.20	0.00	0.00	0.00
26	1	25	0.03	1.39	0.04	0.00	0.00
47	1	25	4.50	1.39	6.26	0.02	0.02
73	1	25	4.76	1.39	6.62	0.02	0.02
74	1	25	2.89	1.39	4.02	0.01	0.01
75	1	25	1.08	1.61	1.74	0.00	0.00
76	1	25	1.50	1.39	2.09	0.01	0.01
77	1	25	2.02	1.39	2.81	0.01	0.01
81	1	25	2.81	1.39	3.91	0.01	0.01
85	1	25	9.21	1.39	12.80	0.04	0.04
86	1	25	0.00	1.39	0.00	0.00	0.00
95	A01	25	0.03	1.09	0.03	0.00	0.00
95	A02	25	0.05	1.09	0.06	0.00	0.00
95	A03	25	0.05	1.09	0.06	0.00	0.00
95	A04	25	0.15	1.09	0.16	0.00	0.00
95	A05	25	4.08	1.39	5.67	0.02	0.02
95	A07	25	0.79	1.39	1.10	0.00	0.00

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	Growth Factor	2022 NO_x Emissions (tons/year)	2022 NO_x Emissions (tons/day)	2022 NO_x Summer Emissions (tons/day)
95	A10	25	0.08	1.45	0.12	0.00	0.00
95	A15	25	1.65	1.45	2.39	0.01	0.01
133	1	25	3.15	1.39	4.38	0.01	0.01
138	1	25	0.52	1.18	0.61	0.00	0.00
138	2	25	129.27	1.18	152.54	0.42	0.42
149	1	25	1.60	1.00	1.60	0.00	0.00
153	1	25	3.81	1.39	5.30	0.01	0.01
155	1	25	0.72	1.39	1.00	0.00	0.00
256	1	25	2.25	1.39	3.13	0.01	0.01
257	1	25	2.22	1.39	3.09	0.01	0.01
276	1	25	3.63	1.39	5.05	0.01	0.01
282	1	25	5.03	1.39	6.99	0.02	0.02
323	1	25	2.24	1.58	3.54	0.01	0.01
329	1	51	4.11	0.59	2.42	0.01	0.01
329	3	51	4.06	1.04	4.22	0.01	0.02
329	4	51	3.69	1.04	3.84	0.01	0.02
329	5	51	3.80	1.04	3.95	0.01	0.02
329	6	51	3.51	1.04	3.65	0.01	0.02
329	8	51	0.00	0.81	0.00	0.00	0.00
329	9	51	0.00	0.81	0.00	0.00	0.00
329	10	51	0.04	1.00	0.04	0.00	0.00
329	11	51	0.01	1.00	0.01	0.00	0.00
360	1	27	38.26	1.39	53.18	0.15	0.16
360	2	27	37.90	1.39	52.68	0.14	0.16
360	3	27	35.31	1.39	49.08	0.13	0.15
360	4	27	0.19	1.20	0.23	0.00	0.00
360	6	27	0.02	1.20	0.02	0.00	0.00
360	8	27	0.75	1.20	0.90	0.00	0.00
372	1	25	2.93	1.20	3.52	0.01	0.01
372	2	25	0.26	1.21	0.32	0.00	0.00
372	3	25	0.26	1.00	0.26	0.00	0.00
372	4	25	0.00	1.00	0.00	0.00	0.00
372	5	25	0.01	1.00	0.01	0.00	0.00
372	6	25	1.79	1.39	2.49	0.01	0.01
372	7	25	0.00	1.20	0.00	0.00	0.00
372	8	25	0.00	1.39	0.00	0.00	0.00
372	9	25	0.00	1.20	0.00	0.00	0.00

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	Growth Factor	2022 NO_x Emissions (tons/year)	2022 NO_x Emissions (tons/day)	2022 NO_x Summer Emissions (tons/day)
372	10	25	0.79	1.39	1.10	0.00	0.00
372	11	25	0.22	1.41	0.31	0.00	0.00
372	12	25	0.00	1.41	0.00	0.00	0.00
372	13	25	0.00	1.41	0.00	0.00	0.00
391	1	27	32.90	1.39	45.73	0.13	0.14
391	2	27	34.50	1.39	47.96	0.13	0.14
391	3	27	35.50	1.39	49.35	0.14	0.15
391	4	27	0.17	0.86	0.15	0.00	0.00
391	5	27	0.10	1.20	0.12	0.00	0.00
391	7	27	0.03	1.04	0.03	0.00	0.00
393	1	27	54.00	0.56	30.24	0.08	0.09
393	2	27	53.13	0.56	29.75	0.08	0.09
393	3	27	0.06	1.00	0.06	0.00	0.00
393	4	27	0.07	1.00	0.07	0.00	0.00
393	5	27	0.68	0.78	0.53	0.00	0.00
393	6	27	1.21	0.78	0.95	0.00	0.00
393	7	27	0.00	1.00	0.00	0.00	0.00
395	2	25	0.00	1.00	0.00	0.00	0.00
395	3	25	29.93	1.20	35.92	0.10	0.10
395	4	25	0.75	1.20	0.90	0.00	0.00
395	5	25	0.00	1.20	0.00	0.00	0.00
395	6	25	2.12	1.18	2.50	0.01	0.01
395	7	25	0.10	1.00	0.10	0.00	0.00
402	1	25	0.00	1.20	0.00	0.00	0.00
402	2	25	0.70	1.20	0.84	0.00	0.00
402	3	25	0.15	0.55	0.08	0.00	0.00
402	4	25	0.00	1.00	0.00	0.00	0.00
402	5	25	4.35	1.42	6.18	0.02	0.02
402	6	25	17.16	1.42	24.37	0.07	0.07
402	7	25	0.89	1.00	0.89	0.00	0.00
402	8	25	0.00	1.42	0.00	0.00	0.00
423	1	37	6.97	0.56	3.90	0.01	0.02
423	2	37	4.89	0.56	2.74	0.01	0.01
423	3	37	5.48	0.56	3.07	0.01	0.01
434	1	25	0.00	1.39	0.00	0.00	0.00
468	1	25	62.78	1.39	87.27	0.24	0.24
482	1	25	0.00	1.45	0.00	0.00	0.00

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	Growth Factor	2022 NO_x Emissions (tons/year)	2022 NO_x Emissions (tons/day)	2022 NO_x Summer Emissions (tons/day)
512	1	25	0.05	1.41	0.07	0.00	0.00
533	1	80	4.30	1.00	4.30	0.01	0.04
533	2	80	0.21	1.00	0.21	0.00	0.00
533	3	80	34.73	1.04	36.12	0.10	0.32
533	4	80	35.14	1.04	36.55	0.10	0.32
533	7	80	0.02	1.00	0.02	0.00	0.00
533	8	80	0.14	1.00	0.14	0.00	0.00
533	9	80	2.40	1.04	2.50	0.01	0.02
533	10	80	0.02	1.00	0.02	0.00	0.00
564	1	25	4.61	1.39	6.41	0.02	0.02
593	C01	25	1.32	1.39	1.83	0.01	0.01
593	C02	25	1.19	1.39	1.65	0.00	0.00
593	C03	25	2.71	1.39	3.77	0.01	0.01
593	C04	25	2.41	1.39	3.35	0.01	0.01
593	C05	25	1.85	1.39	2.57	0.01	0.01
593	E03	25	25.12	1.39	34.92	0.10	0.10
593	E105	25	4.18	1.39	5.81	0.02	0.02
593	E106	25	0.00	1.39	0.00	0.00	0.00
593	E110	25	0.00	1.39	0.00	0.00	0.00
593	E111	25	0.00	1.39	0.00	0.00	0.00
593	E145	25	0.00	0.55	0.00	0.00	0.00
593	E146	25	0.00	0.55	0.00	0.00	0.00
593	E147	25	0.00	0.55	0.00	0.00	0.00
593	E148	25	0.00	0.55	0.00	0.00	0.00
593	E153	25	0.00	0.55	0.00	0.00	0.00
593	E154	25	0.00	1.39	0.00	0.00	0.00
593	G33	25	0.00	1.00	0.00	0.00	0.00
593	G34	25	0.08	1.00	0.08	0.00	0.00
593	Z01	25	0.00	1.39	0.00	0.00	0.00
603	1	25	0.00	1.39	0.00	0.00	0.00
609	1	25	7.03	1.39	9.77	0.03	0.03
611	1	25	0.47	1.39	0.65	0.00	0.00
613	1	25	1.16	1.39	1.61	0.00	0.00
652	A01	27	50.88	1.00	50.88	0.14	0.15
652	A02	27	50.07	1.00	50.07	0.14	0.15
652	A03	27	0.31	1.20	0.37	0.00	0.00
697	1	25	13.03	1.39	18.11	0.05	0.05

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	Growth Factor	2022 NO_x Emissions (tons/year)	2022 NO_x Emissions (tons/day)	2022 NO_x Summer Emissions (tons/day)
737	1	25	16.83	1.39	23.39	0.06	0.06
749	1	25	3.32	1.39	4.61	0.01	0.01
756	1	25	4.99	1.39	6.94	0.02	0.02
825	1	25	22.24	1.39	30.91	0.08	0.08
837	1	25	1.66	0.55	0.91	0.00	0.00
856	1	25	7.21	1.39	10.02	0.03	0.03
1513	1	25	54.27	1.04	56.44	0.15	0.15
1513	3	25	63.57	1.04	66.11	0.18	0.18
1513	5	25	53.62	1.04	55.76	0.15	0.15
1513	7	25	62.54	1.04	65.04	0.18	0.18
1513	9	25	0.01	1.25	0.01	0.00	0.00
1513	10	25	0.21	1.25	0.26	0.00	0.00
1513	12	25	0.15	1.16	0.17	0.00	0.00
1513	13	25	0.15	1.16	0.17	0.00	0.00
1513	14	25	0.05	1.20	0.06	0.00	0.00
1513	15	25	0.00	1.20	0.00	0.00	0.00
1513	16	25	0.00	1.40	0.00	0.00	0.00
1520	A01,2	45	46.80	1.00	46.80	0.13	0.23
1520	A03,4	45	45.80	1.00	45.80	0.13	0.23
1520	A05	45	2.10	1.20	2.52	0.01	0.01
1520	A06	45	0.03	1.20	0.04	0.00	0.00
1520	A07	45	0.12	1.20	0.14	0.00	0.00
1550	A01,2	31	35.71	1.00	35.71	0.10	0.12
1550	A03,4	31	43.61	1.00	43.61	0.12	0.15
1550	A05	31	0.40	1.39	0.56	0.00	0.00
1550	A06	31	0.06	1.20	0.07	0.00	0.00
1584	A01	30	43.92	1.00	43.92	0.12	0.14
1584	A03	30	42.01	1.00	42.01	0.12	0.14
1584	A05	30	0.58	1.20	0.70	0.00	0.00
1584	A06	30	0.01	1.20	0.01	0.00	0.00
1590	1	25	36.82	1.39	51.18	0.14	0.14
15033	1	25	4.31	1.44	6.21	0.02	0.02
AP398	1	25	0.00	1.00	0.00	0.00	0.00
AP398	2	25	0.00	1.00	0.00	0.00	0.00
AP398	3	25	0.00	1.00	0.00	0.00	0.00
AP399	1	51	0.00	1.00	0.00	0.00	0.00
AP400	1	27	0.00	1.00	0.00	0.00	0.00

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 NO_x Emissions (tons/year)	Growth Factor	2022 NO_x Emissions (tons/year)	2022 NO_x Emissions (tons/day)	2022 NO_x Summer Emissions (tons/day)
AP400	2	27	0.00	1.00	0.00	0.00	0.00
AP400	3	27	0.00	1.00	0.00	0.00	0.00
AP400	4	27	522.28	0.00	0.00	0.00	0.00
105	All	25	50.14	1.20	60.17	0.16	0.16
587	All	25	3.29	1.20	3.95	0.01	0.01
617	All	25	15.59	1.20	18.71	0.05	0.05
634	All	25	7.91	1.20	9.49	0.03	0.03
807	All	25	36.86	1.20	44.23	0.12	0.12
15541	All	25	4.48	1.20	5.38	0.01	0.01
16304	All	25	20.50	1.20	24.60	0.07	0.07
16539	All	25	26.14	1.20	31.37	0.09	0.09
16948	All	25	0.10	1.20	0.12	0.00	0.00
TOTAL			**3840.38**		**4118.78**	**11.28**	**12.26**

Table A6: 2022 Projected VOC Emissions

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
3	1	25	0.00	1.00	0.00	0.0000	0.0000
3	2	25	0.56	1.18	0.66	0.0018	0.0018
3	3	25	0.09	1.18	0.11	0.0003	0.0003
3	4	25	0.38	1.18	0.45	0.0012	0.0012
3	5	25	2.28	1.18	2.69	0.0074	0.0074
3	7	25	0.00	1.00	0.00	0.0000	0.0000
3	10	25	0.03	1.18	0.04	0.0001	0.0001
3	28	25	1.31	1.18	1.55	0.0042	0.0042
4	1	25	0.26	1.18	0.31	0.0008	0.0008
4	4-E11	25	0.27	1.39	0.38	0.0010	0.0010
4	4-F1	25	0.00	1.00	0.00	0.0000	0.0000
4	4-F2	25	0.00	1.39	0.00	0.0000	0.0000
4	4-F3	25	0.00	1.39	0.00	0.0000	0.0000
4	4-F4	25	0.00	1.39	0.00	0.0000	0.0000
4	4-G1	25	0.31	1.00	0.31	0.0008	0.0008
4	4-G1a	25	0.00	1.39	0.00	0.0000	0.0000
4	4-G1b	25	0.00	1.39	0.00	0.0000	0.0000
4	4-G1c	25	0.00	1.39	0.00	0.0000	0.0000
4	4-J3	25	0.65	1.39	0.90	0.0025	0.0025

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
4	4-L4	25	0.05	1.20	0.06	0.0002	0.0002
4	B8	25	0.03	1.00	0.03	0.0001	0.0001
4	J2	25	0.00	1.39	0.00	0.0000	0.0000
5	1	25	0.15	1.41	0.21	0.0006	0.0006
7	4	27	0.29	0.83	0.24	0.0007	0.0007
7	5	27	3.01	0.83	2.50	0.0068	0.0074
7	6	27	2.76	0.83	2.29	0.0063	0.0068
7	7	27	3.36	0.83	2.79	0.0076	0.0083
7	8	27	3.22	0.83	2.67	0.0073	0.0079
7	21	27	0.01	1.20	0.01	0.0000	0.0000
7	22	27	0.00	1.20	0.00	0.0000	0.0000
7	27	27	0.34	1.20	0.41	0.0011	0.0012
7	28	27	0.28	1.20	0.34	0.0009	0.0010
7	29	27	0.21	1.20	0.25	0.0007	0.0007
7	30	27	0.29	1.20	0.35	0.0010	0.0010
7	31	27	0.34	1.20	0.41	0.0011	0.0012
7	32	27	0.39	1.20	0.47	0.0013	0.0014
7	33	27	0.36	1.20	0.43	0.0012	0.0013
7	34	27	0.39	1.20	0.47	0.0013	0.0014
7	35	27	0.36	1.20	0.43	0.0012	0.0013
7	36	27	0.48	1.20	0.58	0.0016	0.0017
7	37	27	0.41	1.20	0.49	0.0013	0.0015
7	38	27	0.36	1.20	0.43	0.0012	0.0013
7	45	27	0.01	1.20	0.01	0.0000	0.0000
7	46	27	0.00	1.20	0.00	0.0000	0.0000
8	8_01	100	0.00	0.89	0.00	0.0000	0.0000
8	8_02	100	0.00	1.28	0.00	0.0000	0.0000
11	1	25	24.70	1.18	29.15	0.0799	0.0799
11	01a	25	1.51	1.39	2.10	0.0058	0.0058
11	5	25	0.00	1.39	0.00	0.0000	0.0000
11	9	25	0.08	1.39	0.11	0.0003	0.0003
11	10	25	0.08	1.39	0.11	0.0003	0.0003
11	11	25	0.08	1.39	0.11	0.0003	0.0003
11	12	25	0.04	1.39	0.06	0.0002	0.0002
11	13	25	0.04	1.39	0.06	0.0002	0.0002
11	14	25	0.04	1.39	0.06	0.0002	0.0002
11	18	25	2.01	1.39	2.79	0.0076	0.0076

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
11	18a	25	0.04	1.39	0.05	0.0001	0.0001
11	19	25	2.26	1.39	3.14	0.0086	0.0086
11	19a	25	0.04	1.39	0.06	0.0002	0.0002
11	20	25	1.55	1.39	2.16	0.0059	0.0059
11	20a	25	0.03	1.39	0.04	0.0001	0.0001
11	21	25	0.60	1.39	0.84	0.0023	0.0023
11	21a	25	0.01	1.39	0.02	0.0000	0.0000
11	22	25	0.54	1.39	0.75	0.0021	0.0021
11	22a	25	0.01	1.39	0.01	0.0000	0.0000
11	25	25	0.26	1.39	0.36	0.0010	0.0010
11	26	25	0.26	1.39	0.36	0.0010	0.0010
11	30	25	0.26	1.39	0.36	0.0010	0.0010
11	31	25	0.26	1.39	0.36	0.0010	0.0010
11	32	25	0.26	1.39	0.36	0.0010	0.0010
11	36	25	0.48	1.39	0.67	0.0018	0.0018
11	45	25	0.27	1.00	0.27	0.0007	0.0007
11	46	25	0.27	1.00	0.27	0.0007	0.0007
11	48	25	0.00	1.00	0.00	0.0000	0.0000
11	50	25	0.52	1.00	0.52	0.0014	0.0014
11	51	25	0.52	1.00	0.52	0.0014	0.0014
11	52	25	0.52	1.00	0.52	0.0014	0.0014
12	1	25	7.36	1.40	10.30	0.0282	0.0282
12	2	25	0.03	1.00	0.03	0.0001	0.0001
12	3	25	8.39	1.40	11.75	0.0322	0.0322
13	1	25	1.24	1.23	1.52	0.0042	0.0042
13	2	25	1.24	1.23	1.52	0.0042	0.0042
13	3	25	1.24	1.23	1.52	0.0042	0.0042
13	4	25	1.24	1.23	1.52	0.0042	0.0042
13	5	25	1.24	1.23	1.52	0.0042	0.0042
13	6	25	1.24	1.23	1.52	0.0042	0.0042
13	7	25	1.24	1.23	1.52	0.0042	0.0042
13	8	25	1.24	1.23	1.52	0.0042	0.0042
13	9	25	1.24	1.23	1.52	0.0042	0.0042
13	10	25	1.24	1.23	1.52	0.0042	0.0042
13	11	25	1.24	1.23	1.52	0.0042	0.0042
13	12	25	1.24	1.23	1.52	0.0042	0.0042
13	13	25	1.24	1.23	1.52	0.0042	0.0042

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
13	14	25	1.24	1.23	1.52	0.0042	0.0042
13	15	25	1.24	1.23	1.52	0.0042	0.0042
13	16	25	1.24	1.23	1.52	0.0042	0.0042
13	17	25	1.24	1.23	1.52	0.0042	0.0042
13	18	25	1.24	1.23	1.52	0.0042	0.0042
13	19	25	1.24	1.23	1.52	0.0042	0.0042
13	20	25	1.24	1.23	1.52	0.0042	0.0042
13	21	25	1.24	1.23	1.52	0.0042	0.0042
13	22	25	1.24	1.23	1.52	0.0042	0.0042
13	23	25	1.24	1.23	1.52	0.0042	0.0042
13	24	25	1.24	1.23	1.52	0.0042	0.0042
13	26	25	1.24	1.23	1.52	0.0042	0.0042
13	27	25	1.24	1.23	1.52	0.0042	0.0042
13	28	25	1.24	1.23	1.52	0.0042	0.0042
13	29	25	1.24	1.23	1.52	0.0042	0.0042
13	30	25	1.24	1.23	1.52	0.0042	0.0042
13	31	25	1.24	1.23	1.52	0.0042	0.0042
13	32	25	1.24	1.23	1.52	0.0042	0.0042
13	33	25	1.24	1.23	1.52	0.0042	0.0042
13	34	25	1.24	1.23	1.52	0.0042	0.0042
13	36	25	1.24	1.23	1.52	0.0042	0.0042
13	37	25	1.24	1.23	1.52	0.0042	0.0042
13	38	25	1.24	1.23	1.52	0.0042	0.0042
13	39	25	1.24	1.23	1.52	0.0042	0.0042
13	42	25	1.24	1.23	1.52	0.0042	0.0042
13	45	25	1.24	1.23	1.52	0.0042	0.0042
13	46	25	1.24	1.23	1.52	0.0042	0.0042
13	47	25	1.24	1.23	1.52	0.0042	0.0042
13	48	25	1.24	1.23	1.52	0.0042	0.0042
13	53	25	1.24	1.23	1.52	0.0042	0.0042
13	54	25	1.24	1.23	1.52	0.0042	0.0042
13	56	25	1.24	1.23	1.52	0.0042	0.0042
13	57	25	1.24	1.23	1.52	0.0042	0.0042
13	58	25	1.24	1.23	1.52	0.0042	0.0042
13	59	25	1.24	1.23	1.52	0.0042	0.0042
13	60	25	1.24	1.23	1.52	0.0042	0.0042
13	61	25	1.24	1.23	1.52	0.0042	0.0042

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
13	B01	25	0.00	1.23	0.00	0.0000	0.0000
13	B02	25	0.00	1.23	0.00	0.0000	0.0000
13	B04	25	0.00	1.23	0.00	0.0000	0.0000
13	B05	25	0.00	1.23	0.00	0.0000	0.0000
13	B06	25	0.00	1.23	0.00	0.0000	0.0000
13	B10	25	0.01	0.96	0.01	0.0000	0.0000
13	D02	25	0.01	1.00	0.01	0.0000	0.0000
13	SR04	25	0.00	1.25	0.00	0.0000	0.0000
19	A01	25	0.74	1.49	1.10	0.0030	0.0030
19	B06	25	0.00	1.49	0.00	0.0000	0.0000
19	B09	25	0.18	1.23	0.22	0.0006	0.0006
19	B10	25	0.00	1.23	0.00	0.0000	0.0000
19	C05	25	0.00	1.23	0.00	0.0000	0.0000
19	D02E	25	0.00	1.23	0.00	0.0000	0.0000
19	D02W	25	0.00	1.23	0.00	0.0000	0.0000
19	E03	25	0.00	1.49	0.00	0.0000	0.0000
19	G02	25	0.00	1.20	0.00	0.0000	0.0000
19	G10	25	0.01	1.20	0.01	0.0000	0.0000
19	M11	25	0.00	1.20	0.00	0.0000	0.0000
26	1	25	0.04	1.39	0.06	0.0002	0.0002
47	1	25	0.67	1.39	0.93	0.0026	0.0026
73	1	25	0.50	1.39	0.70	0.0019	0.0019
74	1	25	0.42	1.39	0.58	0.0016	0.0016
75	1	25	6.18	1.61	9.95	0.0273	0.0273
76	1	25	0.19	1.39	0.26	0.0007	0.0007
77	1	25	0.21	1.39	0.29	0.0008	0.0008
81	1	25	0.23	1.39	0.32	0.0009	0.0009
85	1	25	0.52	1.39	0.72	0.0020	0.0020
86	1	25	0.00	1.39	0.00	0.0000	0.0000
95	A01	25	0.00	1.09	0.00	0.0000	0.0000
95	A02	25	0.00	1.09	0.00	0.0000	0.0000
95	A03	25	0.00	1.09	0.00	0.0000	0.0000
95	A04	25	0.01	1.09	0.01	0.0000	0.0000
95	A05	25	0.73	1.39	1.01	0.0028	0.0028
95	A07	25	0.04	1.39	0.06	0.0002	0.0002
95	A10	25	0.00	1.45	0.00	0.0000	0.0000
95	A15	25	0.01	1.45	0.01	0.0000	0.0000

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
95	A17	25	0.00	0.99	0.00	0.0000	0.0000
133	1	25	0.25	1.39	0.35	0.0010	0.0010
138	2	25	0.44	1.18	0.52	0.0014	0.0014
149	1	25	3.06	1.00	3.06	0.0084	0.0084
153	1	25	0.26	1.39	0.36	0.0010	0.0010
155	1	25	0.19	1.39	0.26	0.0007	0.0007
256	1	25	0.32	1.39	0.44	0.0012	0.0012
257	1	25	0.32	1.39	0.44	0.0012	0.0012
276	1	25	0.49	1.39	0.68	0.0019	0.0019
282	1	25	0.94	1.39	1.31	0.0036	0.0036
323	1	25	11.53	1.58	18.22	0.0499	0.0499
329	1	51	0.77	0.83	0.64	0.0018	0.0036
329	3	51	1.82	1.00	1.82	0.0050	0.0102
329	4	51	1.75	1.00	1.75	0.0048	0.0098
329	5	51	1.88	1.00	1.88	0.0052	0.0105
329	6	51	1.68	1.00	1.68	0.0046	0.0094
329	8	51	0.00	0.83	0.00	0.0000	0.0000
329	9	51	0.00	0.83	0.00	0.0000	0.0000
329	10	51	0.01	1.00	0.01	0.0000	0.0001
329	11	51	0.00	1.00	0.00	0.0000	0.0000
360	1	27	8.52	1.39	11.84	0.0324	0.0350
360	2	27	8.41	1.39	11.69	0.0320	0.0346
360	3	27	8.53	1.39	11.86	0.0325	0.0351
360	4	27	0.00	1.20	0.00	0.0000	0.0000
360	6	27	0.01	1.20	0.01	0.0000	0.0000
360	8	27	0.13	1.20	0.16	0.0004	0.0005
372	1	25	0.28	1.20	0.34	0.0009	0.0009
372	2	25	0.01	1.21	0.01	0.0000	0.0000
372	3	25	0.00	1.00	0.00	0.0000	0.0000
372	4	25	0.00	1.00	0.00	0.0000	0.0000
372	5	25	0.01	1.00	0.01	0.0000	0.0000
372	6	25	0.00	1.39	0.00	0.0000	0.0000
372	7	25	0.00	1.20	0.00	0.0000	0.0000
372	8	25	0.00	1.39	0.00	0.0000	0.0000
372	9	25	0.18	1.20	0.22	0.0006	0.0006
372	10	25	0.00	1.39	0.00	0.0000	0.0000
372	12	25	0.00	1.41	0.00	0.0000	0.0000

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
372	13	25	0.02	1.41	0.03	0.0001	0.0001
391	1	27	8.56	1.39	11.90	0.0326	0.0352
391	2	27	8.47	1.39	11.77	0.0323	0.0348
391	3	27	8.54	1.39	11.87	0.0325	0.0351
391	4	27	0.00	1.20	0.00	0.0000	0.0000
391	5	27	0.01	1.20	0.01	0.0000	0.0000
391	7	27	0.01	1.00	0.01	0.0000	0.0000
393	1	27	3.88	0.83	3.22	0.0088	0.0095
393	2	27	3.88	0.83	3.22	0.0088	0.0095
393	3	27	0.01	1.00	0.01	0.0000	0.0000
393	4	27	0.01	1.00	0.01	0.0000	0.0000
393	5	27	0.28	0.83	0.23	0.0006	0.0007
393	6	27	0.18	0.83	0.15	0.0004	0.0004
393	7	27	0.00	1.00	0.00	0.0000	0.0000
393	9	27	0.05	0.99	0.05	0.0001	0.0001
395	2	25	0.00	1.00	0.00	0.0000	0.0000
395	3	25	1.90	1.20	2.28	0.0062	0.0062
395	4	25	0.35	1.20	0.42	0.0012	0.0012
395	5	25	5.20	1.20	6.24	0.0171	0.0171
395	6	25	26.64	1.18	31.44	0.0861	0.0861
395	7	25	0.04	1.00	0.04	0.0001	0.0001
402	1	25	0.00	1.20	0.00	0.0000	0.0000
402	2	25	0.04	1.20	0.05	0.0001	0.0001
402	3	25	0.01	1.23	0.01	0.0000	0.0000
402	4	25	0.00	1.00	0.00	0.0000	0.0000
402	5	25	0.25	1.42	0.36	0.0010	0.0010
402	6	25	6.04	1.42	8.58	0.0235	0.0235
402	7	25	0.01	1.00	0.01	0.0000	0.0000
402	8	25	0.39	1.42	0.55	0.0015	0.0015
423	1	37	0.11	0.83	0.09	0.0003	0.0004
423	2	37	0.08	0.83	0.07	0.0002	0.0003
423	3	37	0.09	0.83	0.07	0.0002	0.0003
434	1	25	0.00	1.39	0.00	0.0000	0.0000
468	1	25	8.16	1.39	11.35	0.0311	0.0311
482	1	25	0.00	1.77	0.00	0.0000	0.0000
512	1	25	0.04	1.41	0.06	0.0002	0.0002
527	1	25	8.43	1.00	8.43	0.0231	0.0231

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
533	1	80	0.24	1.00	0.24	0.0007	0.0021
533	2	80	0.01	1.00	0.01	0.0000	0.0001
533	3	80	23.51	1.00	23.51	0.0644	0.2061
533	4	80	23.73	1.00	23.73	0.0650	0.2080
533	7	80	0.00	1.00	0.00	0.0000	0.0000
533	8	80	0.01	1.00	0.01	0.0000	0.0001
533	9	80	0.26	1.00	0.26	0.0007	0.0023
533	10	80	0.00	1.00	0.00	0.0000	0.0000
564	1	25	0.44	1.39	0.61	0.0017	0.0017
593	C01	25	0.09	1.39	0.13	0.0003	0.0003
593	C02	25	0.08	1.39	0.11	0.0003	0.0003
593	C03	25	0.19	1.39	0.26	0.0007	0.0007
593	C04	25	0.17	1.39	0.24	0.0006	0.0006
593	C05	25	0.13	1.39	0.18	0.0005	0.0005
593	E03	25	2.10	1.39	2.92	0.0080	0.0080
593	E105	25	0.26	1.39	0.36	0.0010	0.0010
593	E106	25	0.00	1.39	0.00	0.0000	0.0000
593	E110	25	0.00	1.39	0.00	0.0000	0.0000
593	E111	25	0.00	1.39	0.00	0.0000	0.0000
593	E145	25	0.00	1.23	0.00	0.0000	0.0000
593	E146	25	0.00	1.23	0.00	0.0000	0.0000
593	E147	25	0.00	1.23	0.00	0.0000	0.0000
593	E148	25	0.00	1.23	0.00	0.0000	0.0000
593	E153	25	0.00	1.23	0.00	0.0000	0.0000
593	E154	25	0.00	1.39	0.00	0.0000	0.0000
593	G33	25	0.00	1.00	0.00	0.0000	0.0000
593	G34	25	0.00	1.00	0.00	0.0000	0.0000
593	Z01	25	11.82	1.39	16.43	0.0450	0.0450
603	1	25	0.00	1.39	0.00	0.0000	0.0000
609	1	25	0.92	1.39	1.28	0.0035	0.0035
611	1	25	0.15	1.39	0.21	0.0006	0.0006
613	1	25	0.10	1.39	0.14	0.0004	0.0004
652	A01	27	12.97	1.00	12.97	0.0355	0.0384
652	A02	27	12.76	1.00	12.76	0.0350	0.0378
652	A03	27	0.01	1.20	0.01	0.0000	0.0000
652	A07	27	0.00	1.20	0.00	0.0000	0.0000
697	1	25	2.82	1.39	3.92	0.0107	0.0107

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
737	1	25	2.84	1.39	3.95	0.0108	0.0108
749	1	25	0.51	1.39	0.71	0.0019	0.0019
756	1	25	1.37	1.39	1.90	0.0052	0.0052
825	1	25	4.05	1.39	5.63	0.0154	0.0154
837	1	25	0.07	1.23	0.09	0.0002	0.0002
856	1	25	1.09	1.39	1.52	0.0042	0.0042
859	1	25	18.63	1.39	25.90	0.0709	0.0709
1513	1	25	21.19	1.00	21.19	0.0581	0.0581
1513	3	25	21.38	1.00	21.38	0.0586	0.0586
1513	5	25	20.89	1.00	20.89	0.0572	0.0572
1513	7	25	21.05	1.00	21.05	0.0577	0.0577
1513	9	25	0.00	1.25	0.00	0.0000	0.0000
1513	10	25	0.03	1.25	0.04	0.0001	0.0001
1513	12	25	0.01	1.16	0.01	0.0000	0.0000
1513	13	25	0.01	1.16	0.01	0.0000	0.0000
1513	14	25	0.01	1.20	0.01	0.0000	0.0000
1513	15	25	0.00	1.20	0.00	0.0000	0.0000
1513	16	25	0.00	1.40	0.00	0.0000	0.0000
1520	A01,2	45	27.60	1.00	27.60	0.0756	0.1361
1520	A03,4	45	28.20	1.00	28.20	0.0773	0.1391
1520	A05	45	0.10	1.20	0.12	0.0003	0.0006
1520	A06	45	0.01	1.20	0.01	0.0000	0.0001
1520	A07	45	0.15	1.20	0.18	0.0005	0.0009
1550	A01,2	31	10.73	1.00	10.73	0.0294	0.0365
1550	A03,4	31	13.15	1.00	13.15	0.0360	0.0447
1550	A05	31	0.01	1.39	0.01	0.0000	0.0000
1550	A06	31	0.01	1.00	0.01	0.0000	0.0000
1584	A01	30	24.23	1.00	24.23	0.0664	0.0797
1584	A03	30	24.87	1.00	24.87	0.0681	0.0818
1584	A05	30	0.12	1.20	0.14	0.0004	0.0005
1584	A06	30	0.00	1.20	0.00	0.0000	0.0000
1590	1	25	6.07	1.39	8.44	0.0231	0.0231
15033	1	25	2.44	1.44	3.51	0.0096	0.0096
AP398	1	25	0.00	0.83	0.00	0.0000	0.0000
AP398	2	25	0.00	0.83	0.00	0.0000	0.0000
AP398	3	25	0.00	0.83	0.00	0.0000	0.0000
AP399	1	51	0.00	0.83	0.00	0.0000	0.0000

Facility ID	Emission Unit ID	Summer Proportion (%)	2015 VOC Emissions (tons/year)	Growth Factor	2022 VOC Emissions (tons/year)	2022 VOC Emissions (tons/day)	2022 VOC Summer Emissions (tons/day)
AP400	1	27	0.00	1.00	0.00	0.0000	0.0000
AP400	2	27	0.00	1.00	0.00	0.0000	0.0000
AP400	3	27	0.00	1.00	0.00	0.0000	0.0000
AP400	4	27	0.00	1.00	0.00	0.0000	0.0000
AP400	5	27	0.00	1.78	0.00	0.0000	0.0000
105	All	25	6.50	1.20	7.80	0.0214	0.0214
587	All	25	3.98	1.20	4.78	0.0131	0.0131
617	All	25	14.67	1.20	17.60	0.0482	0.0482
634	All	25	1.30	1.20	1.56	0.0043	0.0043
807	All	25	25.69	1.20	30.83	0.0845	0.0845
15541	All	25	0.12	1.20	0.14	0.0004	0.0004
16304	All	25	0.30	1.20	0.36	0.0010	0.0010
16539	All	25	8.09	1.20	9.71	0.0266	0.0266
16948	All	25	4.90	1.20	5.88	0.0161	0.0161
TOTAL			**701.81**		**810.46**	**2.2204**	**2.7226**