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Emissions Inventory Report Summary:
Reporting Requirements
for the New Mexico Administrative Code,
Title 20, Chapter 2, Part 73 (20.2.73 NMAC)
for Calendar Year 2003





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Meteorology and Air Quality Group (ENV-MAQ)



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by

Meteorology and Air Quality Group (ENV-MAQ)

ABSTRACT

Los Alamos National Laboratory is subject to annual emissionsreporting requirements for regulated air pollutants under Title 20 of the New Mexico Administrative Code, Chapter 2, Part 73 (20.2.73 NMAC), Notice of Intent and Emissions Inventory Requirements. The applicability of the requirements is based on the Laboratory's potential to emit 100 tons per year of suspended particulate matter, nitrogen oxides, carbon monoxide, sulfur oxides, or volatile organic compounds. For calendar year 2003, the Technical Area 3 steam plant and the air curtain destructors were the primary sources of criteria air pollutants from the Laboratory, while the air curtain destructors and chemical use associated with research and development activities were the primary sources of volatile organic compounds and hazardous air pollutants. Emissions of beryllium and aluminum were reported for activities permitted under 20.2.72 NMAC. Hazardous air pollutant emissions were reported from chemical use as well as from all combustion sources. In addition, estimates of particulate matter with diameter less than 2.5 micrometers and ammonia were provided as requested by the New Mexico Environment Department, Air Quality Bureau.

1.0 INTRODUCTION

1.1 REGULATORY BASIS

Los Alamos National Laboratory (LANL or the Laboratory) has reported on air pollutants generated from its operations since the 1970s when Air Quality Control Regulation 703, *Registration of Air Contaminant Sources*, was promulgated. According to the regulation, the Laboratory was required to register air pollutant sources that emitted more than

2,000 lb per year of any air contaminant. This regulatory requirement later evolved into Title 20 of the New Mexico Administrative Code, Chapter 2, Part 73 (20.2.73 NMAC), *Notice of Intent and Emissions Inventory Requirements*. The objective of the reporting requirement is to provide emissions data to the New Mexico Environment Department (NMED), Air Quality Bureau (AQB) so its staff can determine whether LANL meets state and federal air pollutant standards.

Annual emissions inventory reporting requirements under 20.2.73 NMAC apply to any stationary source which

- has been issued a construction permit under 20.2.72 NMAC;
- has been required to file a Notice of Intent under 20.2.73.200 NMAC; or
- emits in excess of
 - o 1 ton per year of lead or
 - o 10 tons per year of
 - total suspended particulates;
 - particulate matter (PM) with diameter less than 10 micrometers (PM_{10}) ;
 - particulate matter with diameter less than 2.5 micrometers (PM_{2.5});
 - sulfur dioxide;
 - nitrogen oxides (NO_x);
 - carbon monoxide (CO); or
 - volatile organic compounds (VOC).

The annual emissions inventory must be submitted to NMED/AQB by April 1 of each year.

The NMED/AQB enters the data in the Aerometric Information Retrieval System (AIRS).¹ This nationwide system, administered by the U.S. Environmental Protection Agency (EPA), is used to help ensure ambient air quality standards are maintained and to track the state's air pollutant emissions. AIRS is a large air pollution database that contains information, requirements, and data on air pollution and air quality in the United States and various World Health Organization member countries. The program is operated by the EPA and state/local air pollution control agencies. The AIRS database tracks each state's progress towards achieving and maintaining National Ambient Air Quality Standards (NAAQS) for criteria pollutants. The database is also used as a tool to help improve each state's air quality programs by enabling program members to access and compare past data and view data from other states. For 2003 emissions inventory reporting, NMED imported existing facility data from the AIRS database into spreadsheets and requested facilities update the sheets with 2003 facility emissions information.

1.2 CONTENTS OF EMISSIONS INVENTORY SUBMITTAL

NMED requested that LANL submit emissions data for 2003 via electronic format for entry into AIRS. The information required for submittal includes the following:

- company name, address, and physical location for the facility;
- facility contact information;
- signed certification statement by a responsible facility official; and
- specific information for each emission unit such as stack and exhaust parameters, type and efficiency of control equipment, schedule of operation, annual process or fuel combustion rates, and estimated actual emissions for 2003.

This annual emissions inventory submittal includes air pollutant data for PM, PM_{10} , CO, NO_x , sulfur oxides (SO_x) , VOCs, beryllium, and aluminum. Additionally, at the request of NMED, the 2003 report provides data on emissions from hazardous air pollutants (HAPs), $PM_{2.5}$, and ammonia.

The new requirement to provide $PM_{2.5}$ and ammonia emissions data stems from recent developments by EPA on a NAAQS for $PM_{2.5}$. States are developing a baseline for $PM_{2.5}$. As such, for the 2003 emissions inventory, NMED requested emissions information on $PM_{2.5}$. Further, ammonia is a precursor to $PM_{2.5}$ formation. It contributes to the secondary aerosol formation of $PM_{2.5}$ by combining with NO_x and SO_x to form ammonium nitrate and fine sulfate particles. Therefore, NMED also requested emissions information on ammonia.

In the 2003 emissions inventory submittal, LANL provided PM_{2.5} emissions data for all combustion sources and other emission sources where PM_{2.5} emission factors were readily available. In the absence of PM_{2.5} emission factors, PM or PM₁₀ emissions were assumed to be equivalent to PM_{2.5}. The Laboratory does not operate any emission units that are large sources of ammonia emissions. Ammonia was included in the facility-wide emission estimates for chemical use.

2.0 REPORTED EMISSION SOURCES

The Laboratory's 2003 Emissions Inventory Submittal to NMED² includes estimates of actual air emissions for regulated pollutants from the following sources:

- steam plants;
- miscellaneous small boilers;
- asphalt plant;
- paper shredder;
- rock crusher;
- degreasers;
- air curtain destructors (ACDs);
- carpenter shop;
- oil storage tanks;

- permitted beryllium sources; and
- facility-wide chemical use.

The following subsections describe emission sources included in the 2003 emissions inventory and emission calculation methodology for each source type. A summary table of actual reported emissions by source is included at the end of this section (Section 2.12). Attachment A includes worksheets showing detailed emission calculations for individual emissions sources. A copy of the 2003 Emissions Inventory as submitted to NMED is presented in Attachment B.

2.1 STEAM PLANTS

The Laboratory operates two steam plants, one located at Technical Area (TA) 3 and the other at TA-21. The TA-3 steam plant produces steam for heating and electricity for much of the Laboratory when sufficient power from outside sources is not available. The steam plant at TA-21 provides steam for heating of buildings at this technical area. The heat produced from both steam plants is used for comfort heat and hot water and to support facility processes. Each steam plant has three boilers that are fueled primarily with natural gas and with diesel fuel as a backup. The TA-3 steam plant was originally included in LANL's emissions inventory as AIRS ID No. 002. When a modification to the plant was made in 2001, the TA-3 steam plant was separated in to three AIRS ID numbers (032, 033, and 034) for emissions reporting purposes. The three boilers at the TA-21 steam plant are included in the emissions inventory as one AIRS ID number (004).

Actual emissions are calculated on the basis of metered fuel consumption and emission factors. The primary source of emission factors is AP-42, the U.S. Environmental Protection Agency's *Compilation of Air Pollutant Emission Factors*.³ However, emission factors from stack tests conducted at the TA-3 steam plant when burning natural gas were also used, as appropriate.

The TA-3 steam plant has historically been the largest source of NO_x emissions at the Laboratory. In 2002 a voluntary project to install pollution control equipment on the three boilers at the TA-3 steam plant was completed. The three boilers were fitted with flue gas recirculation (FGR) equipment to reduce NO_x emissions. Stack testing for NO_x and CO was conducted before FGR equipment was installed and again after it was operational. Based on these stack test results, FGR reduced NO_x emissions by approximately 64 percent. The FGR equipment was operational for all of 2003. Figure 2-1 shows a picture of the TA-3 steam plant building and stacks.



Figure 2-1. Main Steam Plant at LANL TA-3.

2.2 NONEXEMPT BOILERS

The Laboratory operates approximately 200 small boilers, used primarily for seasonal comfort heat. Most of the boilers are exempt from permitting requirements because of their small size and use as comfort boilers and are not included in the emissions inventory. The exemption analysis applied to boilers is discussed in Section 3.1 of this report.

The nonexempt boilers reported in the 2003 emissions inventory include the following:

- four boilers at TA-16 (AIRS ID Nos. 024 and 025);
- three boilers at TA-48 (AIRS ID Nos. 015, 016, and 017);
- two boilers at TA-53 (AIRS ID Nos. 018 and 019);
- two boilers at TA-59 (AIRS ID Nos. 020 and 021);
- two boilers at TA-55 (AIRS ID Nos. 037 and 038); and
- one process-related boiler at TA-50 (reported for the first time in 2003, AIRS ID not yet assigned).

The TA-50 boiler is associated with an evaporation system at the Laboratory's Radioactive Liquid Waste Treatment Facility. The boiler is owned and operated by a contractor and has been on-site since 2000. Initial plans were for this to be a temporary unit; however, current plans are to keep the unit operating at LANL for several more years. This boiler is included in the Laboratory's Title V Operating Permit (Permit No P-100); therefore we have included it in the emissions inventory submittal for 2003.

All of the reported boilers burn natural gas. The TA-16 boilers are equipped with meters to track fuel consumption. Operating logs for the TA-50 boiler were used to quantify fuel use for this unit. Fuel use for all other boilers was estimated based on the total amount of natural gas used by the Laboratory minus the amount supplied to metered sources. The amount of natural gas left after subtracting out metered sources was apportioned to the various boilers based on their size. Since they are all seasonal boilers used for building heating, it was assumed they would all operate approximately the same amount of time. Some emission factors were available from stack tests (TA-55), some were provided by the boiler manufacturer (Sellers Engineering Company), and the rest were taken from AP-42. Copies of spreadsheets showing fuel use and emission factors for each boiler are included in Attachment A.

2.3 ASPHALT PLANT

The TA-3 asphalt plant produces small amounts of asphalt for road repairs in and around the Laboratory. This unit is included in LANL's emissions inventory as AIRS ID No. 013. The asphalt plant operated during the first half of 2003. In mid-June the plant was shut down in anticipation of a new asphalt plant being built. In September 2003 the old asphalt plant was dismantled and removed. The new asphalt plant will be located at TA-60; however, construction of the new plant has been delayed due to nesting of spotted owls. The new asphalt plant is anticipated to be operational sometime in late 2004. For the 2003 emissions inventory, emissions from the TA-3 asphalt plant are based on the amount of asphalt produced for the year. The PM emissions from the asphalt plant were calculated with an emission factor obtained from a source test. Otherwise, emission factors from AP-42 were used.⁴

2.4 Paper Shredder

Shredding operations from the paper shredder at TA-52 are a source of PM emissions. This unit is included in LANL's emissions inventory as AIRS ID No. 027. Estimates of actual emissions are based on the number of boxes of material shredded and engineering estimates for controlled emissions. The unit is equipped with a cyclone separator and baghouse for abatement. The emission factor, which is the amount of particulate estimated to enter into the exhaust, was provided by the shredder equipment manufacturer. The air abatement system efficiencies were estimated based on information from EPA on cyclone and baghouse efficiencies and are documented in LANL's Title V Operating Permit application submitted to NMED in November 2002.⁵

2.5 ROCK CRUSHER

In June 1999, NMED issued a 20.2.72 NMAC construction permit (Permit No. 2195) to LANL to operate an impact rock crusher to crush potentially radioactive contaminated concrete removed from buildings as part of the Laboratory's decontamination and decommissioning efforts. This unit is included in LANL's emissions inventory as AIRS ID No. 026. The rock crusher was not operated in 2003.

2.6 DEGREASER

The halogenated solvent cleaning machine at TA-55 has a capacity of 18 liters and is registered with NMED/AQB as required under the *National Emissions Standards for Hazardous Air Pollutants*, 40 CFR 63 Subpart T, "Halogenated Solvent Cleaning." The solvent used in the machine, trichloroethylene (Chemical Abstracts Service [CAS] No. 79-01-6), is a VOC and a HAP. LANL uses a mass balance approach to estimate emissions. Logbooks are kept on the amount of solvent added and removed from the machine. Additionally, monthly tracking of solvent levels in the machine are logged. Using a mass balance approach, emissions are estimated. LANL has two additional halogenated solvent cleaning machines registered with NMED; however, these two machines did not operate in 2003.

2.7 AIR CURTAIN DESTRUCTORS

Three ACDs were used extensively during most of 2003 for controlled open burning of wood and brush generated from tree thinning activities at LANL. These units are included in LANL's emissions inventory as AIRS ID Nos. 039, 040, and 041. The ACDs work by blowing a curtain of air over materials as they burn within a semi-enclosed environment. The fan-driven curtain of air introduces a steady oxygen supply into the combustion chamber and helps ensure nearly all fuel and gasses are consumed. Each unit can burn up to 10 tons of wood per hour. In 2003 a total of 18,671 tons of wood and brush generated from forest thinning activities were burned in the ACDs. A picture of an ACD operating at LANL's TA-16 is included as Figure 2-2.



Figure 2-2. ACD Operating at LANL TA-16.

Both wood burning and engine operation emissions were estimated. Wood burning emissions were estimated based on the total tons of wood burned in 2003 and emission factors presented in the Title V Operating Permit application submitted to NMED in November 2002. Engine emissions were estimated based on total diesel fuel consumed and horsepower hours operated. The units were operated through September 2003. In October 2003 the ACDs were shut down and dismantled.

2.8 CARPENTER SHOP

LANL operates a carpenter shop at TA-3-38. This carpenter shop was built before 1960 and is not subject to 20.2.72 NMAC construction permitting. However, LANL included this source in its updated Title V Operating Permit application submitted to NMED in November 2002. Therefore, this carpenter shop is included in the annual emissions inventory as AIRS ID No. 042.

PM emissions from the carpenter shop are estimated based on number of hours the exhaust system operated and an estimated control efficiency of the cyclone. Emission factors from AP-42, Section 10.4, "Woodworking Waste Collection Operations," were used to estimate PM, PM₁₀, and PM_{2.5} emissions.⁶

2.9 OIL STORAGE TANKS

Two diesel storage tanks are located at the TA-3 steam plant for backup fuel to the boilers. These tanks are included in the emissions inventory under AIRS ID Nos. 035 and 036. Emissions from these tanks are estimated using software developed by EPA for estimating emissions from storage tanks. The TANKS 4.0 software requires inputs for tank parameters, site-specific meteorological conditions, and actual fuel throughputs.

The Laboratory included oil storage tanks in the November 2002 updated Title V Operating Permit application because they were subject to *New Source Performance Standards*, 40 CFR 60, Subpart Kb. These tanks are used to store mineral oil, scintillation oil, or dielectric oil, which all have vapor pressures less than 0.01 mmHg. In 2003 EPA modified the applicability of Subpart Kb and these tanks are no longer subject to this regulation. Subsequently they were not included in the Laboratory's Title V Operating Permit (Permit No. P-100).

Emissions from these oil storage tanks were included for the first time in the 2002 emissions inventory. With the agreement of NMED, emissions from the 14 tanks were summed and listed as one stack entry in the emissions inventory report due to the small quantity of emissions (email correspondence with Jim Shively, NMED/AQB, dated February 3, 2003). This "composite" mineral oil tank was assigned AIRS ID No. 043. Because an AIRS ID number is now assigned, emissions from these tanks will continue to be included in the annual emissions inventory submittal. Based on the most conservative tank parameters and actual throughput from chemical inventory records, a unit emission rate was calculated. The TANKS 4.0 software was used to estimate emissions for both vertical and fixed roof tanks. These unit emission rates in lb/yr were

multiplied by the number of horizontal and vertical tanks to provide an estimate of total annual emissions from all of the tanks.

2.10 PERMITTED BERYLLIUM-MACHINING OPERATIONS

The Laboratory operates under five 20.2.72 NMAC construction permits** for beryllium-machining operations that are subject to 40 CFR 61, Subpart C, "National Emission Standards for Beryllium." Emissions from these sources were reported at permitted emission levels; however, actual emissions monitored during initial compliance stack tests were below permitted levels. Beryllium-machining operations are reported in the emissions inventory under AIRS ID Nos. 006, 007, 008, 010, and 011.

2.11 Emissions from Chemical Use Activities

The majority of the Laboratory's work is devoted to research and development (R&D) activities. Varying operating parameters, as well as amounts and types of chemicals, are used in these activities. R&D activities occur at virtually all technical areas within the Laboratory, typically in small quantities in laboratory settings. Figure 2-3 shows a typical laboratory at LANL where chemicals are used.

For the purposes of annual emissions inventory reporting, one AIRS ID has been assigned for all R&D chemical use (AIRS ID No. 031). The methods used to quantify emissions of VOC and HAPs from R&D activities are discussed below.



Figure 2-3. Example of Chemical Use in Laboratory Hood at LANL.

^{**} Permit No. 632, issued December 26, 1985; Permit No. 632-M2, issued October 30, 1998; Permit No. 635, issued March 19, 1986; Permit No. 636, issued March 19, 1986; Permit No. 1080-M1-R2, issued March 11, 1998.

2.11.1 VOC Emissions

The Laboratory tracks chemical purchases through a facility-wide chemical tracking system called ChemLog. A download from the ChemLog inventory system was created that included all chemical containers added to LANL's inventory between January 1, 2003, and December 31, 2003. This dataset included 43,702 separate line items of chemicals purchased. The dataset was reviewed electronically to identify all VOCs purchased and received at LANL in 2003. With the exception of specific listed chemicals, VOCs are any compounds of carbon that participate in atmospheric photochemical reactions. VOCs include commonly used chemicals such as ethanol, methanol, trichloroethylene, and isopropanol. The general assumption used in estimating VOC emissions from chemical use is:

Purchasing = Use = Emissions

From the dataset of chemicals purchased in 2003, certain categories of chemicals were separated and eliminated from the analysis. The classifications assigned and corresponding reasons (noted in parentheses) for exclusion of chemicals from inventory records are noted below.

- Solid materials (solids are not a significant source of air emissions based on their low vapor pressure);
- Non-VOC materials as defined by 40 CFR 51.100 (specific chemicals in 40 CFR 51.100 are listed as having negligible photochemical reactivity and are exempt from the definition of VOC);
- Paints (paints were evaluated separately—see Section 3.4);
- Inorganic chemicals (inorganics are not compounds of carbon);
- Oils (not a significant source of air emissions based on low vapor pressure and primarily used for maintenance);
- Fuels used for combustion purposes (emissions from fuel combustion are reported for each combustion unit).

Furthermore, the following categories of chemicals were eliminated based on guidance from NMED (letter from Mary Uhl, NMED/AQB, dated January 30, 2001):

- Container sizes of 1 lb or less;
- Chemicals with vapor pressures less than 10 mmHg;
- Chemicals used to calibrate equipment;
- Maintenance chemicals;
- Use of office equipment and products;
- Chemicals used for boiler water treatment operations;
- Chemicals used for oxygen scavenging (deaeration) of water; and
- Chemicals used in bench-scale chemical analysis.*

After elimination of chemicals and categories of chemicals listed above, the remaining chemical inventory records were matched with a list of known VOCs by CAS number. For mixtures, material safety data sheets (MSDS) were reviewed to determine if any

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^{*} This exemption was applied only to biological research solutions. Otherwise, this exemption was not applied. See Table 3.1.

VOCs were present and, if so, to determine the associated percent volatile. As a conservative estimate, VOCs identified in ChemLog records were assumed to be 100% emitted to air. Estimated emissions of VOCs from chemical use in 2003 totaled 11.2 tons.

2.11.2 HAP Emissions

Section 112(b) of the 1990 Clean Air Act Amendments listed 189 unique HAPs identified for potential regulation by EPA. In 1995, caprolactam was delisted as a HAP. Of the remaining 188 listed HAPs, 17 are classes of compounds (e.g., nickel compounds). Use of the 188 listed chemicals in activities at the Laboratory was evaluated and quantified for the annual emissions inventory submittal to NMED.

The ChemLog inventory system CY 2003 data set was analyzed to identify HAPs. The identification process was similar to that used for VOCs. Pure chemicals (i.e., chemicals with CAS numbers), classes of compounds, and mixtures were evaluated to determine if the chemicals themselves were HAPs or if they contained HAP constituents. For mixtures, MSDS were reviewed to determine if any HAPs were present and, if so, to determine the associated HAP percentages. Listed below are certain chemical types or categories that were identified and removed from this analysis (refer to Section 2.11.1 and Table 3.1 for explanations on removal of these chemicals):

- Paints.
- Oils.
- Maintenance chemicals,
- Chemicals used to calibrate equipment,
- Container sizes of 1 lb or less,
- Chemicals used in bench-scale chemical analysis,
- Use of office equipment and products,
- Chemicals used for boiler water treatment operations, and
- Chemicals used for oxygen scavenging (deaeration) of water.

Total HAP emissions were estimated by summing (1) pure HAP chemicals, (2) classes of compounds that are HAPs, and (3) the HAP constituents from mixtures. The resulting total amount of HAPs from chemical use reported for 2003 was 7.3 tons.

The HAP emissions reported generally reflect quantities procured in the calendar year. In a few cases procurement values and operational processes were further evaluated so that actual air emissions could be reported instead of procurement quantities. Additional analyses for certain metals and acids were performed and are described below.

HAP Metals

Purchases of chromium, lead, manganese, mercury, and nickel compounds were evaluated to determine usage and potential air emissions. Several of the purchases were identified as laboratory calibration standards containing only parts per million quantities of the metals. These were exempt from emissions inventory requirements because of their use as standards for calibrating laboratory equipment. Other purchasers of relatively large

quantities of metal compounds that were contacted confirmed that the material was still in use or in storage and had not resulted in air emissions.

Hydrochloric Acid

Facility and Waste Operations Division purchased multiple 14-gallon carboys of hydrochloric acid (HCl) totaling approximately 2,535 lb. This HCl was used for heat exchanger scale cleaning and for cleaning of electrodialysis reversal membranes. Emissions from these particular activities were estimated to be 0.24 lb based on specific process information and engineering calculations. This is also considered a routine maintenance activity and exempt from emissions inventory reporting. The remaining procurements consisted of numerous small purchases from a variety of operating groups. Additional analysis of these numerous small purchases was not done. As a conservative assumption all of this HCl was assumed to be emitted resulting in a reported total of 2.05 tons of HCl emissions.

2.12 Emissions Summary by Source

Table 2-1 provides a summary of LANL's 2003 actual emissions, as submitted for the annual emissions inventory. The table presents emissions by pollutant and by source, with a facility total at the bottom of the table. Attachment A provides detailed information on how emissions were calculated for each emission unit.

Table 2-1. Summary of LANL 2003 Reported Emissions

	NO_X	SO _x	PM_{10}	PM _{2.5}	CO	VOC	HAPs
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)
TA-3 Steam Plant	16.94	0.27	2.25	2.24	11.67	1.6	0.53
Boilers							
TA-21 Steam Plant	1.6	0.02	0.12	0.12	1.34	0.09	0.03
Boilers							
Small Boilers	6.44	0.04	0.59	0.59	4.41	0.37	0.12
Asphalt Plant	0.02	0.003	0.03	0.03	0.24	0.005	0.005
Paper Shredder	NA*	NA	0.001	0.001	NA	NA	NA
Rock Crusher	NA	NA	NA	NA	NA	NA	NA
Degreaser	NA	NA	NA	NA	NA	0.01	0.01
Air Curtain	24.6	1.3	14.4	13.5	14.3	36.0	3.3
Destructors							
Carpenter Shop	NA	NA	0.009	0.008	NA	NA	NA
Oil Storage Tanks	NA	NA	NA	NA	NA	0.04	NA
R&D	NA	NA	NA	NA	NA	11.2	7.3
TOTAL	49.6	1.63	17.4	16.5	31.96	49.3	11.3

^{*}Not applicable.

3.0 REPORTING EXEMPTIONS

Specific activities that are determined to be insignificant under NMED's Operating Permit program (20.2.70 NMAC) are exempt from reporting under the emissions inventory requirements (20.2.73.300 NMAC). NMED has designated exempt sources, activities, or thresholds in the following lists:

- "List of Insignificant Activities," September 29, 1995, and
- "List of Trivial Activities," January 10, 1996.

Laboratory sources and activities that qualify as insignificant or trivial as specified in these lists are not included in the annual emissions inventory. The following subsections of this report provide information and examples of the Laboratory's exempt activities as well as analyses performed to determine exempt status.

3.1 Boilers

The Laboratory's boiler inventory was evaluated against the "List of Insignificant Activities." Specifically, boilers were exempted from the emissions inventory reporting requirements if they met one of the following requirements:

- Fuel burning equipment which uses gaseous fuel, has a design rate less than or equal to five (5) million BTU per hour, and is used solely for heating buildings for personal comfort or for producing hot water for personal use, or
- Any emissions unit...that has the potential to emit no more than **one** (1) **ton per year** of any regulated pollutant...

Any boiler that was not used exclusively for comfort heating or hot water was evaluated for the **one** (1) **ton per year** exemption. For purposes of determining exemptions, boiler design ratings were used to estimate potential to emit. Any boiler not qualifying for one of these two exemptions is included in the emissions inventory.

3.2 VOC EMISSIONS

A number of insignificant and trivial activities were applicable for exempting materials from the VOC chemical use total in the emissions inventory. The basis of the exemptions and corresponding insignificant or trivial activities are explained in Table 3-1.

Fuels such as propane, kerosene, and acetylene were analyzed separately and are not listed in Table 3-1. When fuels are burned in an open flame, almost all of the fuels are consumed and emissions are minimal. Emissions from fuel combustion are accounted for using emission factors for each fuel-burning unit.

Table 3-1. Exemptions Applied for Chemical Use Activities

Basis of Exemption	Activity Type	Activity
Container sizes of 1 pound or less	Trivial	Paint or nonpaint materials dispensed from prepackaged aerosol cans of 16-oz. capacity or less.
Chemicals with vapor pressures less than 10 mmHg	Insignificant	Any emissions unit, operation, or activity that handles or stores a liquid with vapor pressure less than 10 mmHg or in quantities less than 500 gal.
Calibration chemicals	Trivial	Routine calibration and maintenance of laboratory equipment or other analytical instruments, including gases used as part of those processes.
Maintenance chemicals and oils	Trivial	Activities that occur strictly for maintenance of grounds or buildings, including lawn care; pest control; grinding; cutting; welding; painting; woodworking; sweeping; general repairs; janitorial activities; plumbing; re-tarring roofs; installing insulation; steam-cleaning and waterwashing activities; and paving of roads, parking lots, and other areas.
		Activities for maintenance and repair of equipment, pollution-control equipment, or motor vehicles either inside or outside of a building.
Use of office equipment and products	Trivial	Use of office equipment and products, not including printers or businesses primarily involved in photographic reproduction.
Chemicals used for boiler water treatment	Trivial	Boiler water treatment operations, not including cooling towers.
Chemicals used for oxygen scavenging	Trivial	Oxygen scavenging (deaeration of water).
Chemicals used in bench-scale	Trivial	Bench-scale laboratory equipment used for physical or chemical analysis but not lab fume hoods or vents.
chemical analysis		Note: This exemption was applied only to biological research solutions. Otherwise, this exemption was not applied.

3.3 HAP EMISSIONS

A HAP chemical use exemption analysis, similar to the VOC chemical use exemption analysis, resulted in application of several of the same exemptions from NMED/AQB "List of Trivial Activities" and "List of Insignificant Activities" (refer to Table 3.1).

3.4 PAINTS

An analysis of VOC and HAP emissions resulting from painting activities conducted at the Laboratory was performed to determine if certain exemptions apply. Paint information for 2003 was gathered from work control databases and the ChemLog chemical inventory system. These records were evaluated for applicability of exemptions for trivial and insignificant activities.

The following exemptions from NMED/AQB Operating Permit Program "List of Trivial Activities" were used in the paint analysis:

- Activities that occur strictly for maintenance of grounds or buildings, including the
 following: lawn care; pest control; grinding; cutting; welding; painting;
 woodworking; sweeping; general repairs; janitorial activities; plumbing; re-tarring
 roofs; installing insulation; steam-cleaning and water-washing activities; and paving
 of roads, parking lots, and other areas.
- Activities for maintenance and repair of equipment, pollution control equipment, or motor vehicles either inside or outside of a building.
- Paint or nonpaint materials dispensed from prepackaged aerosol cans of 16 oz. or less capacity.

The corresponding amounts of paint were totaled for painting activities that did not qualify for one of the trivial activity exemptions listed above. The paint total for 2003 was determined to be 2,938 lb (1.47 tons), which further qualified for the following insignificant activity:

Surface coating of equipment, including spray painting and roll coating, for sources with facility-wide total cleanup solvent and coating actual emissions of less than two (2) tons per year.

All emissions from paints and painting activities were exempt as insignificant or trivial activities and therefore were not included in the 2003 emissions inventory.

3.5 GENERATORS

The Laboratory maintains an inventory of approximately 125 portable generators. Portable generators are used at the Laboratory for temporary operations requiring remote power or to provide emergency backup power during power outages at various sites. The portable generators are fueled by gasoline and/or diesel fuel.

In addition to portable generators, the Laboratory maintains and operates approximately 45 stationary standby generators. Stationary generators are used on standby (emergency) status to provide power to critical systems at the Laboratory during power outages. The stationary generators are fueled by natural gas, gasoline, or diesel.

The insignificant activity exemptions applicable to the Laboratory's generators are the following:

- Portable engines and portable turbines that have a design capacity...less than or equal to
 - o 200-Horsepower engine if fueled by diesel or natural gas, and
 - o 500-Horsepower engine if fueled by gasoline,
- Emergency generators that comply with the definition of standby equipment.

Standby equipment is defined in NMED/AQB "List of Insignificant Activities" as

"an emissions unit which on a temporary basis replaces equipment used in normal operation, and which either has an allowable emission rate or potential to emit for each fee pollutant that is equal to or less than the equipment replaced, or which does not operate for a period exceeding 500 hours per calendar year."

On the basis of size, portable generators used for temporary power at remote locations are exempt from emissions inventory reporting requirements. Since all stationary generators are designated as standby equipment under the Operating Permit Program and are used solely to provide emergency backup power for less than 500 hours per year, they are insignificant sources and are also exempt from emissions inventory reporting requirements.

The Laboratory is installing a process-related generator at TA-33 to support research activities. NMED issued a construction permit in October 2002 for installation of this generator (Permit No. 2195-F), and this unit is included in LANL's Title V Operating Permit. However, installation is not yet complete and the generator did not operate in 2003. Therefore, this unit is not included in the 2003 emissions inventory.

4.0 EMISSIONS SUMMARY

4.1. 2003 Emissions Summary

Table 4-1 presents facility-wide actual emissions of criteria pollutants for 2003 as reported in the annual emissions inventory. Table 4-2 presents facility-wide actual emissions for HAPs. Emission unit information and detailed emissions calculations are included in Attachment A. The 2003 Emissions Inventory Report as submitted to NMED is presented in Attachment B. As mentioned, it is formatted to be compatible with AIRS.

As requested by NMED, HAP emissions from all combustion sources and chemical use, PM_{2.5} emission estimates, and ammonia were reported. As discussed with NMED on February 21, 2002, the voluntary reporting of New Mexico toxic air pollutants was not included due to time and resource constraints.

Figure 4-1 shows air pollutant emissions by source for 2003, excluding beryllium, aluminum, and HAPs. As the figure shows, the ACDs were the largest source of VOC,

CO, PM₁₀, and NO_x emissions in 2003. The TA-3 boilers were the second largest source of CO and NO_x emissions, and R&D chemical use was the second largest source of VOC emissions.

Table 4-1. LANL Facility-Wide Criteria Pollutant Emissions for 2003

Pollutant	Actual Emissions (tons/yr)
NO_x	49.6
SO_x	1.6
СО	32.0
PM	22.2
PM_{10}	17.4
PM _{2.5}	16.5
VOC	49.3

Table 4-2. LANL Facility-Wide HAP Emissions for 2003

Pollutant	Chemical Use Emissions (tons/yr)	Combustion/ Other Source Emissions (tons/yr)	Total HAPs (tons/yr)
Total HAPs	7.3	3.99	11.3
Top 6 HAPs			
Hydrochloric Acid	2.05	1.6	3.65
Manganese Compounds	1.15	0.13	1.28
Hexane	0.06	1.18	1.24
Methylene Chloride	0.95	0.03	0.98
Methanol	0.73	0	0.73
Acetonitrile	0.63	0	0.63

There are two notable differences in reported emissions from 2002 to 2003.

- Emissions of NO_x have decreased from 2002 levels due to the operation of the FGR system on the TA-3 steam plant boilers for the entire year.
- CO, PM, and VOC emissions were higher in 2003 due to increased use of the ACDs for forest thinning and fire mitigation efforts. The ACDs were shut down at the end of September 2003 and are not anticipated to be used in the near future.

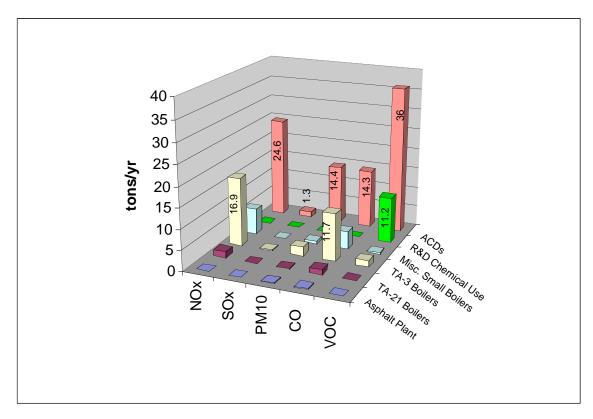


Figure 4-1. Emissions of Criteria Pollutants by Source in 2003.

4.2. EMISSION TRENDS AND TITLE V PERMIT LIMITS

In May 2004, a facility-wide Title V Operating Permit (Permit No. P-100) was issued to LANL. This permit includes facility-wide emission limits that keep the Laboratory under the major source thresholds for Prevention of Significant Deterioration permitting. The Title V Operating Permit also includes facility-wide emission limits on HAPs that keep the Laboratory under major source classification for HAPs. A copy of the permit can be accessed at the LANL Meteorology and Air Quality web site at: http://www.airquality.lanl.gov/.

Although the permit was not in effect until spring 2004, a comparison of historical emissions to the facility-wide emission limits in the Title V Operating Permit is provided in the sections below. It should be noted that the facility-wide emission limits in the Operating Permit include emissions from some sources that are not included in the annual emissions inventory, most notably small (insignificant) boilers and generators. In future years, semi-annual emissions reporting for all sources included in the Title V Operating Permit is required to demonstrate compliance with the permitted emission limits. These semi-annual emission reports are due by March 30 and September 30 of each year.

Figure 4-2 provides a comparison of the past six years' facility-wide emissions for criteria air pollutants as reported to NMED. The facility-wide emission limits included in LANL's Title V Operating Permit are also shown on the graph.

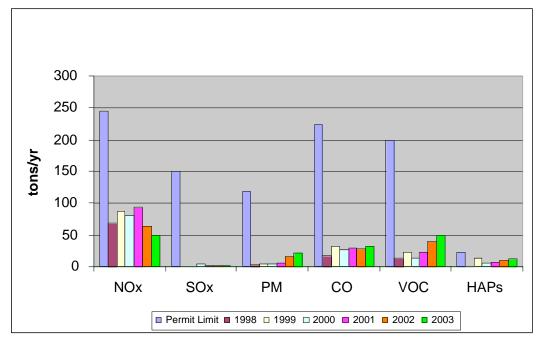


Figure 4-2. Comparison of Facility-Wide Emissions from 1998–2003.

Figure 4-3 represents VOC and HAP emissions from chemical use activities. As shown, the HAP emissions from chemical use have remained relatively constant, and VOC emissions declined slightly in recent years. The continued fluctuation in both VOC and HAP emissions is due to both variations in actual chemical purchases and improvements the Laboratory has made to the chemical tracking system.

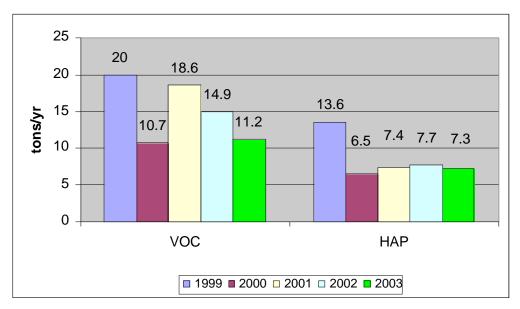


Figure 4-3. VOC and HAP Emissions from Chemical Use, 1999–2003.

REFERENCES

- 1. U.S. Environmental Protection Agency, Aerometric Information Retrieval System (AIRS), http://www.epa.gov/ttn/chief.
- Los Alamos National Laboratory, "2003 Annual Emissions Inventory Report Submittal to the New Mexico Environment Department," LA-UR-04-2016, March 2004.
- 3. U.S. Environmental Protection Agency, "Compilation of Air Pollutant Emission Factors," AP-42, Fifth Edition, Section 1.4 Natural Gas Combustion, July 1998, and Section 1.3 Fuel Oil Combustion, September 1998.
- 4. U.S. Environmental Protection Agency, "Compilation of Air Pollutant Emission Factors," AP-42, Fifth Edition, Section 11.1 Hot Mix Asphalt Plants, December 2000.
- Los Alamos National Laboratory, "20.2.70 NMAC Operating Permit Application for Los Alamos National Laboratory," Chapters 1 & 2, LA-UR-02-6717; Chapter 3, LA-UR-02-6258; Chapter 4, LA-UR-02-6601; Maps, LA-UR-02-7202; Application Forms, LA-UR-02-7286; November 2002.
- 6. U.S. Environmental Protection Agency, "Compilation of Air Pollutant Emission Factors," AP-42, Fifth Edition, Section 10.4 Woodworking Waste Collection Operations, February 1980.
- 7. U.S. Environmental Protection Agency, TANKS Emission Estimation Software, http://www.epa.gov/ttn/chief/software/TANKS.
- 8. New Mexico Environment Department, Air Quality Bureau, "List of Insignificant Activities under Title V Operating Permits," September 29, 1995.
- 9. New Mexico Environment Department, Air Quality Bureau, "List of Trivial Activities under Title V Operating Permits," January 10, 1996.

ATTACHMENT A. EMISSION CALCULATION WORKSHEETS FOR INDIVIDUAL EMISSION UNITS

2003 Air Curtain Destructors Burn Emissions

	Total Wood Burned					**			•
	(ton) ²	NOX	CO	SOx	TSP	PM-10	00C	HAPs	PM 2.5
		•	,		•	7	c	30.0	7
Emissions Factors (Burn) (lb/ton)		7	1.4	0.7	7	C./	3.0	0.33	
	0503								
S-12/ Surface Air Curtain Destructor	CECO	17 186	12 030	850	17 186	12 890	32 653	3.008	12,030
	-10	001,71		7	1		16 33		
Emissions lotal (ton/yr)		60.0	0.02	0.43	0.03	1	10.33	3:-	
T-350 Trench Burner # 1		×ON	8	SOx	TSP	PM-10	VOC	HAPs	PM 2.5 ³
Fmissions Factors (Burn) (lb/ton)	251	2	1.4	0.1	2	1.5	3.8	0.35	1.4
Emissions (lb/vr)		502	351	25	505	377	954	88	351
Emissions Total (ton/yr)		0.25	0.18	0.01	0.25	0.19	0.48	0.04	0.18
					:				
T-350 Trench Burner # 2	9827								
Emissions (lb/yr)		19,654	13,758	983	19,654	14,741	37,343	3	₩ ¥
Emissions Total (ton/yr)		9.83	6.88	0.49	9.83	7.37	18.67	1.72	6.88

¹ Emissions Factors from Title V application submitted to NMED on 11/27/02

² Wood totals obtained from air curtain destructor operating logs maintained by FWO. ³ PM2.5 is 70% of total PM based on AP-42, Table 13.1-3, October 1996. Emission Factor for Fire stage for short needle conifers.

Air curtain Destructors - Entresions nom Dieser Engine	IOIII Diesei Liigiile									
S-127 Air Curtain Destructor	Hours Unit Operated	×ON	8	SOx	TSP	PM-10	Aldehydes	voc	HAPs	PM 2.5
Emission Factors (Engine) lb/hp-hr ¹		0.031	0.0067	0.0021	0.0022	0.0022	0.00046	0.0025	0.000046	0.0022
Surface Unit S-127 John Deere	1,894									
Engine Size (hp)	92						•			
Emissions (lb/vear) ²		4462	964	302	317	317	99	360	7	317
Emissions Total Ton/Year		2.23	0.48	0.15	0.16	0.16	0.03	0.18	0.00	0.16
								•		
T-350 Air Curtain Destructors		NOX	္ပ	SOx	TSP	PM-10	Aldehydes	voc	HAPs	PM 2.5
Emission Factors (Engine) lb/hp-hr ¹		0.031	0.0067	0.0021	0.0022	0.0022	0.00046	0.0025	0.000046	0.0022
Trench Unit # 1 T-350 John Deere	45									
Engine Size (hp)	125									
Emissions (lb/year) ²		174	38	12	12	12	က	14	0	12
Emissions Total Ton/Year		60.0	0.02	0.01	0.01	0.01	0.00	0.01	0.00	0.01

Trench Unit # 2 T-350 John Deere	1850									
Engine Size (hp)	125									
Emissions (lb/vear) ²		7169	1549	486	509	209	106	578	11	509
Emissions Total Ton/Year		3.58	0.77	0.24	0.25	0.25	0.05	0.29	0.01	0.25

¹ Emissions Factors from Title V application submitted to NMED on 11/27/02 ² Sample Calculation: 0.031 lb/hp-hr x 76 hp x 2060 hr = 4853 lb/yr Operating Hours obtained from Michael Dennis.

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S-127 Surface Air Curtain Destructor		NOX	00	SOx	TSP	PM-10	Aldehydes	VOC	HAPs	PM 2.5
Wood Burning Emissions Factors		2	1.4	0.1	2	1.5		3.8	0.35	1.4
Engine Emission Factors lb/hp-hr		0.031	0.0067	0.0021	0.0022	0.0022	0.00046	0.0025	0.000046	0.0022
Wood Burning Emissions (Tons/year)		8.6	6.0	0.4	8.6	6.4		16.3	1.5	6.0
Engine Burning Emissions (Tons/vear)		2.2	0.5	0.2	0.2	0.2	0.0	0.2	00.00	0.16
Total S-127 Emissions		10.8	6.5	9.0	8.8	6.6	0.0	16.5	1.5	6.2
Trench # 1 T-350 Air Curtain Destructor										
Wood Burning Emissions (Tons/year)		0.3	0.2	0.01	0.3	0.2		0.5	0.0	0.2
Engine Burning Emissions (Tons/vear)		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.01
Total T-350-1 Emissions		0.3	0.2	0.0	0.3	0.2	0.0	0.5	0.0	0.2
Trench # 2 T-350 Air Curtain Destructor		•								
Wood Burning Emissions (Tons/year)	*	9.6	6.9	0.49	9.8	7.4		18.7	1.7	6.9
Engine Burning Emissions (Tons/year)		3.6	0.8	0.2	0.3	0.3	0.1	0.3	0.01	0.25
Total T-350-2 Emissions		13.4	7.7	0.7	10.1	7.6	0.1	19.0	1.7	7.1
2003 Total for 3 ACDs (Tons/year)		24.6	14.3	1.3	19.1	14.4	0.1	36.0	3.3	13.5

Max. Emissions(from Title V app)38.223.7

¹ Emissions Factors from Title V application submitted to NMED on 11/27/02

9.6

61.3

24.4

32.4

2.0

Asphalt Plant Operational Data - 2003

2003 TA-3 Asphalt Plant	ınt			Data Review	Data Reviewed By / Date:	
	Data Entry			Data Entry		
	Asphalt	12-Month		Asphalt	12-Month	
Month	Produced (Tons)	Rolling Total	Month	Produced (Tons)	Rolling Total	
January	69	6069	July	0	2542	
February	02		August	0	1697	
March	182	9989	6866 September	0	1611	
April	175	5394	October	0	1379	
May	454	5524	5524 November	0	1261	
June	254	4377	December	0	1204	
6 mo. Total	1,204		6 mo. Total:	0		
Tons/Asphalt Produced (2003):	1,204	•	2-Month Rolli	12-Month Rolling Permit Limit is 13,000 Tons	13,000 Tons	
Emission Calculations						
		Annual	Emissions	Emissions		
	(Ib/ton)	Emissions	(tons)	(tons)	Reference	
Pollutant	(110/1011)	(tons)	Jan-June	July-Dec		
NOx	0.025	0.015	0.015	0.000	(a)	
SOx	0.0046	0.003	0.003		(a)	
PM	0.07	0.042	0.042	000'0	(q)	
PM-10	90.0	0.030	0:030	000'0	(c)	
PM-2.5	0.05	0.030	0:030		(c)	
03	0.4	0.241	0.241	000'0	(a)	
VOC	0.0082	0.005	0.005	000.0	(a)	
HAPs						
Acetaldehyde	0.00032	1.93E-04	1.93E-04	0.00E+00	(þ)	
Benzene	0.00028	1.69E-04	1.69E-04	0.00E+00	(d)	
EthylBenzene	0.0022	1.32E-03	1.32E-03	0.00E+00	(þ)	
Formaldehyde	0.00074	4.45E-04	4.45E-04		(p)	
Napthalene	0.000036	2.17E-05	2.17E-05		(p)	
POM	0.00011	6.62E-05	6.62E-05	0.00E+00	(p)	
				0000		

© (p)

0.00E+00 0.00E+00 0.00E+00

1.63E-04 6.02E-04 1.63E-03 4.61E-03

1.63E-04 6.02E-04 1.63E-03 4.61E-03

0.0027 0.001

TOTAL HAPS

Quinone Toluene Xylene

0.00011 0.00027

Reference	(a) AP-42, 12/2000, Section 11.1, Hot Mix Asphalt Plants, Table 11.1-5 and 11.1-6	(b) Source Test, 8/25/93 (Title V Application, December 1995)	(c) PM-10 emission factor is calcualted as 64% of the PM emission factor, using the	same ratio of PM to PM-10 as provided in AP 42 Table 11.1-1. No data provided for PM-2.5, assume same as PM-10.	(d) AP-42, Table 11.1-9, December 2000, Hot Mix Asphalt Plants	(e) AP-42, Table 11.1-11, December 2000, Hot Mix Asphalt Plants	(f) Assume all SOx is converted to sulfuric acid	(g) EPCRA PAC Guidance Document, EPA- 260-B-01-03, June 2001, Table 2-3
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2003 TA-3 & TA-15 Carpenter Shops

TA-3	Data Entry			Data Entry	
	Hours of Operation ¹	12-Month		Hours of Operation	12-Month
Month	TA-3	Rolling Total	Month	TA-3	Rolling Total
January	11.0	11.0	July	2.3	59.9
February	11.0	22.0	August	7.4	67.3
March	11.0	33.0	September	8.2	75.5
April	11.0	44.0	October	0.0	75.5
May	11.0	55.0	November	17.4	92.8
June	2.6	57.6	December	17.4	110.2
6 mo. Total	57.6		6 mo. Total:	52.5	

TA-15	Data Entry			Data Entry	
	Hours of Operation ¹	12-Month		Hours of Operation ¹	12-Month
Month	TA-15	Rolling Total	Month	TA-15	Rolling Total
January	0	0	July	0	0
February	0	0	August	0	0
March	0	0	September	0	0
April	0	0	October	0	0
Мау	0	0	November	0	0
June	0	0	December	0	0
6 mo. Total	0		6 mo. Total:	0	

Permitted maximum operating limit is 4368 hours per 12-Month rolling total for each Carpenter Shop

Reference

1. Based on information provided

monthly by the shop foreman from each shop.

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Emissions Calculations for 2003
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ANNUAL EMISSIONS	SIONS				PM P	PM Post Cyclone Emissions	nissions	
	Operation Parameters	arameters	TSP Prior to Cyclone	TSP Post Cyclone		(tons/year)		
	Exhaust	Hours of			(Md)			
	Flow	Operation			(PM >	(PM 10)	(PM 2.5)	
	(ft3/min)	(hr/yr)	(tons/year)	tons/yr	40րm)	(PM 5-20 µm)	(PM <2.5 µm)	
TA-3-38	2706	110	0.105	0.038	0.003	0.018	0.017	
TA-15-563	2100	0	0.000	0.000	0.000	0.000	0.000	
January through June Emissions	gh June Em	issions		:	d Md	PM Post Cyclone Emissions	nissions	
	Operation Parameters	arameters	TSP Prior to Cyclone	TSP Post Cyclone		(tons)		
	Exhaust	Hours of			(PM)			
	Flow	Operation			(PM >	(PM 10)	(PM 2.5)	
	(ft3/min)	(hr/period)	tons	tons	40µm)	(PM 5-20 µm)	(PM <2.5 µm)	
TA-3-38	2706	58	0.055	0.020	0.001	0.010	600.0	
TA-15-563	2100	0	0.000	0.000	0.000	0.000	0.000	
July through December Emissions	Jecember Er	nissions			н М	PM Post Cyclone Er	Emissions	
	Operation Parameters	arameters	TSP Prior to Cyclone	TSP Post Cyclone		(tons)		
	Exhaust ⁽¹⁾	Hours of			(PM)			
	Flow	Operation			(PM >	(PM 10)	(PM 2.5)	
	(ft3/min)	(hr/period)	tons	tons	40µm)	(PM 5-20 µm)	(PM <2.5 µm)	
TA-3-38	2706	23	0.050	0.018	0.001	0.009	0.008	
TA-15-563	2100	0	0.000	0.000	0.000	0.000	0.000	
Conversions:				References:	1.) Exhaus	t Rate calculate	References: 1.) Exhaust Rate calculated by Victor Martinez	nez.
lb/ton	Ib/grain	min/hr	ton/lb		2.) Emissio	n Factor obtaine	2.) Emission Factor obtained from AP-42, Section 10.4	ection 10.4
2000	0.000142857	09	0.0005		Woodworki	ing Waste Collec	Woodworking Waste Collection Operations, post cyclone	, post cyclone
-					emissions,	emissions, Table 10.4.1, February 1980	ebruary 1980.	
Assumptions:					3.) Based c	on information pr	3.) Based on information provided monthly by the shop	oy the shop
	Cyclone ⁽⁴⁾	% PM & PN	% PM & PM10 in Wood ⁽⁵⁾		foreman.			
	Efficiencies	Dust Prio	Dust Prior to Cyclone		4.) K. Wark	& C.F. Warner,	4.) K. Wark & C.F. Warner, Air Pollution - Its Origin and	s Origin and
PM < 2.5	0.45)	0.30		Control, Ta	Control, Table 5-9, pg 186 (1976)	(1976).	
PM 5-20 microns)	0.50		5.) Emissio	ns Inventory Imp	5.) Emissions Inventory Improvement Program (EIIP)	am (EIIP)
PM > 40 microns	0.95)	0.50		Uncontrolle	d Emission Fact	Uncontrolled Emission Factor Listing for Criteria Air	teria Air
Post Cyclone Emission Factor:	ission Factor:				Pollutants,	Volume II: Chap	Pollutants, Volume II: Chapter 14, July 2001 And AP-42	1 And AP-42
grain/ft³ (²)					Appendix B	s, Section 10.5 V	Appendix B, Section 10.5 Woodworking Waste Collection	sste Collection
0.03					Operations	: Belt Sander по	Operations: Belt Sander Hood Exhaust Cyclone.	lone.

Shop Location Flow Rate TA-3-38 | 5000 cfm

Maximum permitted exhaust flow rate is:

2003 TA-52 Paper Shredder

	Data Entry		minute in the second	Data Entry	
		12-Month			12-Month
		Rolling		Boxes	Rolling
Month	Boxes Shredded	Total	Month	Shredded	Total
January	424	424	July	584	3212
February	364	788	August	402	3614
March	661	1449	September	457	4071
April	485	1934	October	499	4570
May	477	2411	November	7.1	4641
June	641	3052	December	0	4641
6 mo. Total	2,628		6 mo. Total:	2,013	

Permitted maximum operating limit is 300 pounds per hour (or 5 boxes assuming each box weighs 60 pounds). 4,641 Annual Boxes (2003):

Maximum Annual emission rate is 13 tons of Total Suspended Particulate (TSP) per year.

Emissions

						Control			
			Amount ³		Control ⁴	Efficiency	TSP		
	Boxes	Weight	Processed	Emission ²	Efficiency	(Bag	Emissions	PM-10	PM-2.5
	Shredded	per box	(spunod)	Factor	(Cyclone)	house)	(spunod)	(spunod)	(spunod)
Annual	4,641	09	278,460	1%	%06	%66	2.78	2.78	2.78
January - June	2,628	09	157,680	1%	%06	%66	1.58	1.58	1.58
July - December	2,013	09	120,780	1%	%06	%66	1.21	1.21	1.21

Reference			
1. Estimated box weight is 60 pounds.	30 pounds. 2. Emission Factor obtained 3. Information provided by 4. Information on control	3. Information provided by	4. Information on control
Information provided by shredding	from SEM, the shredder	the shredder operator	equipment efficiencies is
operations manager.	manufacturer.	(KSL).	based on engineering
			judgment.

2003 Small Boilers Data Entry / Gas Use

Use (MSCF) ⁽⁶⁾ (MSCF) ⁽⁶⁾ (MSCF) ⁽⁶⁾ (MSCF) ⁽⁶⁾ (MSCF) ⁽⁶⁾ 12-Month Rolling Average for all Small Boilers Plant-5 Plant-6 (B-602) (B-603) RLWTF (MSCF) (MMSCF) (MMSCF) 1 3569 18 65.378 65.38 68.97 (MMSCF) ⁽⁶⁾ 1 3562 18 65.159 65.16 137.70 (MMSCF) ⁽⁶⁾ 1 1653 18 65.159 65.16 137.70 (MMSCF) ⁽⁶⁾ 1 1653 18 58.18 58.18 197.56 137.70 1 1822 19 43.011 43.01 242.41 242.41 1 1536 42 29.26 29.26 273.66 273.66 2 2828 42 12,361 12.36 310.78 30.59 1 1293 40 18,472 18.47 330.59 379.70 1 1662 17 30.988 30.99 379.70 230.70 <t< th=""><th>Mete TA-16 Bo</th><th>letered Boiler Gas</th><th>Me TA-55 Boi</th><th>Metered TA-55 Boiler Gas Use</th><th>Metered TA- 50 Gas Use</th><th>Wetered TA- 50 Gas Use Non-Metered Boilers Gas</th><th>Boilers Gas</th><th></th></t<>	Mete TA-16 Bo	letered Boiler Gas	Me TA-55 Boi	Metered TA-55 Boiler Gas Use	Metered TA- 50 Gas Use	Wetered TA- 50 Gas Use Non-Metered Boilers Gas	Boilers Gas	
S Plant-6 (B-602) (B-603) RLWTF (MSCF) (MMSCF) 5 Plant-6 (B-602) (B-603) RLWTF (MSCF) (MMSCF) 2562 18 65,378 65.38 65.16 1653 18 65,159 65.16 65.16 1653 18 58,180 58.18 65.16 65.16 1822 19 43,011 43.01 43.01 43.01 43.01 12.36 12.34 12.36 12.36 <	Use (M	SCF) ^(b)	SM)	SCF) ^(c)	(MSCF) ^(d)	Use	(a)	12-Month Rolling Aver
3569 18 65,378 65.38 68.9 3562 18 65,159 65.18 68.18 1653 18 65,159 65.18 137.1 1653 18 58,180 58.18 197.1 1822 19 43,011 43.01 242.2 1535 43 20,309 20.31 295.6 2828 42 12,361 12.36 310.3 1293 40 18,472 18,47 330.3 1662 43 14,336 14.34 347.6 1668 645 61,135 61.14 443.7 2301 2301 495 72,633 72.63 518.6 1 0 25918 1440 5.06 491218 491.22		Plant-6	BHW-1B (B-602)	BHW-2B (B-603)	RLWTF	(MSCF)	(MMSCF)	for all Small Boiler (MMSCF) ⁽⁶⁾
3562 18 65,159 65,16 1653 18 58,180 58,18 1822 19 43,011 43.01 1959 42 29,256 29,26 1535 43 20,309 20,31 2828 42 12,361 12.36 1293 40 18,472 18,47 1662 17 30,988 30.99 1668 645 61,135 61,14 2301 495 72,633 72.63 1 0 25918 1440 5.06 49122			3569	18		65,378	65.38	68.97
1653 18 58,180 58.18 1822 19 43,011 43.01 1959 42 29,256 29.26 2828 42 20,309 20.31 1293 40 18,472 18,47 2066 43 14,336 14.34 1662 17 30,988 30.99 1668 645 61,135 61.14 2301 495 72,633 72.63 1 0 25918 1440 5.06 491218 491.22			3562	18		65,159	65.16	137.70
1822 19 43,011 43.01 1959 42 29,256 29.26 1535 43 20,309 20,31 2828 42 12,361 12.36 1293 40 18,472 18,47 1662 17 30,988 30.99 1668 645 61,135 61.14 2301 495 72,633 72.63 1 0 25918 1440 5.06 491218 491.22			1653	18		58,180	58.18	197.56
1959 42 29,256 29,26 1535 43 20,309 20,31 2828 42 12,361 12.36 1293 40 18,472 18,47 2066 43 14,336 14.34 1662 17 30,988 30.99 645 61,135 61.14 2301 495 72,633 72.63 1 0 25918 1440 5.06 491218 491.22			1822	19		43,011	43.01	242.41
1535 43 20,309 20.31 2828 42 12,361 12.36 1293 40 18,472 18,47 1662 17 30,988 30.99 1668 645 61,135 61,14 2301 495 72,633 72.63 1 0 25918 1440 5.06 491218 491.22			1959	42		29,256	29.26	273.66
2828 42 12,361 12.36 1293 40 18,472 18.47 2066 43 14,336 14.34 1662 17 30,988 30.99 1668 645 61,135 61.14 2301 495 72,633 72.63 1 0 25918 1440 5.06 491218 491.22			1535	43		20,309	20.31	295.55
1293 40 18,472 18.47 2066 43 14,336 14.34 1662 17 30,988 30.99 1668 645 61,135 61.14 2301 495 72,633 72.63 1 0 25918 1440 5.06 491218 491.22			2828	42		12,361	12.36	310.78
2066 43 14,336 14.34 1662 17 30,988 30.99 1668 645 61,135 61,14 2301 495 72,633 72.63 1 0 25918 1440 5.06 491218 491.22			1293	40		18,472	18.47	330.59
1662 17 30,988 30.99 1668 645 61,135 61.14 2301 495 72,633 72.63 0 25918 1440 5.06 491218 491.22			2066	43		14,336	14.34	347.03
1668 645 61,135 61.14 2301 495 72,633 72.63 1 0 25918 1440 5.06 491218 491.22			1662	17		30,988	30.99	379.70
2301 495 72.633 72.63 72.63 1			1668	645		61,135	61.14	443.15
1 0 25918 1440 5.06 491218			2301	495		72,633	72.63	518.58
	18861	0	25918	1440	5.06	491218	491.22	

MMBTU/hr^(f) 249.4 2003 Non Metered Boiler Pool Capacity:

0.84 Estimated Gas-Use per MMBtu rating Jan-June: Estimated Gas-Use per MMBtu rating July-Dec: Estimated Gas-Use per MMBtu - Annual

MMscf/MMBtu/hr MMscf/MMBtu/hr MMscf/MMBtu/hr

Definitions:

MMSCF= Million Standard Cubic Feet

MSCF = Thousand Standard Cubic Feet

Metered/Non-metered: Metered boilers are those units that have unit specific volumetric flow meters for the boiler(s) only.

			Gas	s Use Non-	Gas Use Non-Metered ⁽⁹⁾ (MMSCF)	MSCF)		
AIRS Stack #	015	016	017	018	019	020	021	Insignificant Units ^(h)
Location:	TA-48-1	TA-48-1	TA-48-1	TA-53-365	TA-53-365	TA-59-1	TA-59-1	Lab Wide
ID:	BS-1	BS-2	BS-6	BHW-1	BHW-2	BHW-1	BHW-2	Varions
Design Rate ⁽ⁱ⁾ (MMBTU/hr)	5.336	5:335	7.140	7.115	7.115	5.335	5.335	207
Calculated Gas Use-Jan-June	6.019	6.018	8.053	8.024	8.024	6.018	6.018	233.119
Calculated Gas Use-July-Dec	4.492	4.491	6.010	5.988	5.988	4.491	4.491	173.974
Calculated Gas Use-Annual	10.510	10.509	14.063	14.013	14.013	10.509	10.509	407.093

Emis	Emission Factors	(lb/MMscf)	
Criteria Pollutant	Small Uncontrolled Boilers ¹	TA-16 Low NOx Boilers ⁴	TA-55-6 Boilers³
NOX	100	37.08	138
SOx	0.6	0.6	0.6
PM ²	7.6	7.6	14.2
PM-10 ²	7.6	7.6	14.2
PM-2.5 ²	7.6	7.6	14.2
00	84	37.08	38.2
NOC	5.5	5.5	5.98
HAPs ⁵			
Arsenic	0.0002		
Benzene	0.0021		
BE	0.000012		
Cadmium	0.0011		
Chromium	0.0014		
Cobalt	0.000084		
Dichlorobenzene	0.0012		
Formaldehyde	0.0075		
Hexane	1.8		
Lead	0.0005		
Mangenese	0.00038		
Mercury	0.00026		
Naptnalene Nickel	0.00061		
POM	0.000088		
Selenium	0.000024		
Tolnene	0.0034		

References for Emission Factors

(1) AP-42, 7/98, Section 1.4, Natural Gas Combustion, Small Boilers.
(2) Emission factors for natural gas of PM-10 and PM-2.5 are roughly equal to those of PM, Natural Gas Combustion, Table 1.4-2
(3) AP-42, 7/98, Section 1.4, Natural Gas Combustion, Small Boilers for SOx. Stack test on 3/00 for NOx. Otherwise, Emission factors from Sellers Engineering

		Reporting	
	Aillinal Re		
	Tot	Total Emissions (tons	ns)
	Annual Emissions	Jan-June	July-Dec
Pollutant	(Includes	(Includes	(Includes
Criteria	Sources)	Sources)	Sources)
NOX	26.799	15.049	11.400
SOx	0.161	0.089	0.067
PM	2.133	1.170	0.891
PM-10	2.133	1.170	0.891
PM-2.5	2.133	1.170	0.891
00	21.504	12.087	9.067
VOC	1.485	0.816	0.616
HAPs	.÷		
Arsenic	4.91E-05	2.81E-05	2.10E-05
Benzene	5.16E-04	2.95E-04	2.20E-04
BE	2.95E-06	1.69E-06	1.26E-06
Cadmium	2.70E-04	1.55E-04	1.15E-04
Chromium	3.44E-04	1.97E-04	1.47E-04
Cobalt	2.06E-05	1.18E-05	8.82E-06
Dichlorobenzene	2.95E-04	1.69E-04	1.26E-04
Formaldehyde	1.84E-03	1.05E-03	7.87E-04
Hexane	4.42E-01	2.53E-01	1.89E-01
Lead	1.23E-04	7.03E-05	5.25E-05
Mangenese	. 9.33E-05	5.34E-05	3.99E-05
Mercury	6.39E-05	3.66E-05	2.73E-05
Napthalene	1.50E-04	8.58E-05	6.40E-05
Nickel	5.16E-04	2.95E-04	2.20E-04
POM	2.16E-05	1.24E-05	9.24E-06
Selenium	5.89E-06	3.38E-06	2.52E-06
Toluene	8.35E-04	4.78E-04	3.57E-04
TOTAL HAPS	0.447	0.256	0.191

REFERENCES

(a) Information on non-metered boilers is provided as a data deliverable from KSL and contains all gas use at LANL minus those non-LANL sources which feed from the LANL main line and LANL sources that are individiually metered

(b)TA-16 Boilers include 4 boilers in two "plants". Each plant has a separate AIRs number. Gas use is included in the KSL data deliverable. KSL does not hold the maintenance contract for the TA-16 boilers, but will work with the facility to gather the information. Plant 6 did not operate in 2003. (c) TA-55 has two boilers with separate AIRs numbers. Each boiler has a gas meter. The gas use information is provided monthly by the TA-55 facility personnel and is included in the (SL data deliverable. (d) TA-50-RLWTF boiler added to EI as a new source for 2003. This boiler is owned and operated by a contractor and has been operated at LANL since mid-2000. Originally planned monthly. Total fuel use since source began operated was assumed to be used equally over the 3 years of operation.
(e) The 12-month rolling average includes all gas use from all boilers listed in this spreadsheet. Boilers not included in this report due to their large size or design are TA-21 boilers & as a temporary source, but current plans are to keep operating for several more years. Therefore, decision was made to include in LANL's annual EI. Fuel use has not been tracked

powerplant boilers at TA-3. A gas use limit of 870 MMscf/yr, 12-month rolling average is a permit limit in Section 2.4 of the LANL operating permit.

(f) The non-metered boiler pool capacity is the sum of all active non-metered boilers design ratings in MMBTU. This number is used to estimate the gas use rate (total non-metered gas (g) The non-metered boilers gas use section provides estimates of gas use for each boiler. This is calculated using the non-metered gas rate, as discussed in reference (f). The use divided by the non-metered boiler pool capacity number).

h) NMED List of Insignificant Activities (9/95), Item (3.) exempts fuel burning equipment which uses gaseous fuel, has a design rate less than or equal to 5 MMBTU/hr, and is used for individual boiler design rating is mutiplied by the gas use rate to provide the estimated gas used per reporting period (in MMSCF). neating buildings for personal comfort or for producing hot water for personal use.

i) The design rate for boilers includes a correction for elevation. LANL is at approximately 7,500 feet above sea level. Corrections are made for atmospheric boilers using 4% reduction derated) for each 1,000 feet above sea level (4% x 7.5 = 30%). For forced draft and power burner boilers, the reduction is half that of atmospheric at 15%. The correction is made using the boiler plate input rating minus the appropriate percentage. 2003 Small Boilers Emissions by Boiler for Annual El Reporting (Tons/Year)

					,			1					
Pollutant	AIRS 015 TA-48-1	AIRS 016 TA-48-1	AIRS 017 TA-48-1	AIRS 018 TA-53-365	AIRS 019 TA-53-365	AIRS 020 TA-59-1	AIRS 021 TA-59-1	AIRS 024 TA-16	AIRS 025 TA-16	AIRS 037 TA-55-6	AIRS 038 TA-55-6	AIRS-NEW TA-50	Total for Small
Criteria	BS-1	BS-2	BS-6	BHW-1	BHW-2	BHW-1	BHW-2	Plant 5	Plant 6	BHW-1B	BHW-2B	RLWTF	Boilers
NOx	0.526	0.525	0.703	0.701	0.701	0.525	0.525	0.350	0.00	1.788	0.099	2.53E-04	6.444
SOx	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.000	0.00	0.008	0.000	1.52E-06	0.039
PM	0.040		0.053	0.053	0.053	0.040	0.040	0.072	00.0	0.184	0.010	1.92E-05	0.586
PM-10	0.040	0.040	0.053	0.053	0.053	0.040	0.040	0.072	00:00	0.184	0.010	1.92E-05	0.586
PM-2.5	0.040	0.040	0.053	0.053	0.053	0.040	0.040	0.072	00.0	0.184	0.010	1.92E-05	0.586
00	0.441	0.441	0.591	0.589	0.589	0.441	0.441	0.350	00:00	0.495	0.028	2.13E-04	4.406
voc	0.029	0.029	0.039	0.039	0.039	0.029	0.029	0.052	00:00	0.077	0.004	1.39E-05	0.365
HAPs													
Arsenic	1.05E-06	1.05E-06	1.41E-06	1.40E-06	1.40E-06	1.05E-06	1.05E-06	1.89E-06	0.00E+00	2.59E-06	1.44E-07	5.06E-10	1.30E-05
Benzene	1.10E-05	1.10E-05	1.48E-05	1.47E-05	1.47E-05	1.10E-05	1.10E-05	1.98E-05	0.00E+00	2.72E-05	1.51E-06	5.31E-09	1.37E-04
BE	6.31E-08	6.31E-08	8.44E-08	8.41E-08	8.41E-08	6.31E-08	6.31E-08	1.13E-07	0.00E+00	1.56E-07	8.64E-09	3.04E-11	7.82E-07
Cadmium	5.78E-06		7.73E-06	7.71E-06	7.71E-06	5.78E-06	5.78E-06	1.04E-05	0.00E+00	1.43E-05	7.92E-07	2.78E-09	7.17E-05
Chromium	7.36E-06		9.84E-06	9.81E-06	9.81E-06	7.36E-06	7.36E-06	1.32E-05	0.00E+00	1.81E-05	1.01E-06	3.54E-09	9.12E-05
Cobalt	4.41E-07	4.41E-07	5.91E-07	5.89E-07	5.89E-07	4.41E-07	4.41E-07	7.92E-07	0.00E+00	1.09E-06	6.05E-08	2.13E-10	5.47E-06
Dichlorobenzene	6.31E-06	6.31E-06	8.44E-06	8.41E-06	8.41E-06	6.31E-06	6.31E-06	1.13E-05	0.00E+00	1.56E-05	8.64E-07	3.04E-09	7.82E-05
Formaldehyde	3.94E-05	3.94E-05	5.27E-05	5.25E-05	5.25E-05	3.94E-05	3.94E-05	7.07E-05	0.00E+00	9.72E-05	5.40E-06	1.90E-08	4.89E-04
Hexane	9.46E-03	9.46E-03	1.27E-02	1.26E-02	1.26E-02	9.46E-03	9.46E-03	1.70E-02	0.00E+00	2.33E-02	1.30E-03	4.55E-06	1.17E-01
Lead	2.63E-06	2.63E-06	3.52E-06	3.50E-06	3.50E-06	2.63E-06	2.63E-06	4.72E-06	0.00E+00	6.48E-06	3.60E-07	1.27E-09	3.26E-05
Mangenese	2.00E-06	2.00E-06	2.67E-06	2.66E-06	2.66E-06	2.00E-06	2.00E-06	3.58E-06	0.00E+00	4.92E-06	2.74E-07	9.61E-10	2.48E-05
Mercury	1.37E-06	1.37E-06	1.83E-06	1.82E-06	1.82E-06	1.37E-06	1.37E-06	2.45E-06	0.00E+00	3.37E-06	1.87E-07	6.58E-10	1.69E-05
Napthalene	3.21E-06		4.29E-06	4.27E-06	4.27E-06	3.21E-06	3.21E-06	5.75E-06	0.00E+00	7.90E-06	4.39E-07	1.54E-09	3.98E-05
Nickel	1.10E-05		1.48E-05	1.47E-05	1.47E-05	1.10E-05	1.10E-05	1.98E-05	0.00E+00	2.72E-05	1.51E-06	5.31E-09	1.37E-04
POM	4.62E-07	4.62E-07	6.19E-07	6.17E-07	6.17E-07	4.62E-07	4.62E-07	8.30E-07	0.00E+00	1.14E-06	6.34E-08	2.23E-10	5.74E-06
Selenium	1.26E-07	1.26E-07	1.69E-07	1.68E-07	1.68E-07	1.26E-07	1.26E-07	2.26E-07	0.00E+00	3.11E-07	1.73E-08	6.07E-11	1.56E-06
Toluene	1.79E-05	1.79E-05	2.39E-05	2.38E-05	2.38E-05	1.79E-05	1.79E-05	3.21E-05	0.00E+00	4.41E-05	2.45E-06	8.60E-09	2.22E-04
TOTAL HAPS/Unit	9.57E-03	9.57E-03	1.28E-02	1.28E-02	1.28E-02	9.57E-03	9.57E-03	1.72E-02	0.00E+00	2.36E-02	1.31E-03	4.61E-06	0.12

TA-3 Steam Plant Fuel Use Totals (Data Entry)

			DATA ENTRY	ENTRY				
	TA-3-22 St	TA-3-22 Steam Plant ^b	TA-3-22 St	TA-3-22 Steam Plant ^b	TA-3-22 Steam Plant ^b	eam Plant ^b		
	Boiler # 1 (Edgemoor In Works, 210 MMBTU/h	dgemoor Iron MMBTU/hr)	Boiler # 2 (Edgemoor Iro Works, 210 MMBTU/hr)	Boiler # 2 (Edgemoor Iron Works, 210 MMBTU/hr)	Boiler # 3 (Union Iron Works, 210 MMBTU/hr)	on Iron Works, BTU/hr)	Monthly Totals	/ Totals
	Natural Gas	Fuel Oil	Natural Gas	Fuel Oil	Natural Gas	Fuel Oil	Natural Gas	Fuel Oil
January	(MCF)	(galloins)	(MICF) 205	(gallons) 3500	(MCF) 63085	(gailons)	(MMSCT)	(gallons)
February	248	0	635	0	59355	0	60.24	0
March	26223	0	4083	0	37088	2110	67.39	2110
April	46644	0	187	0	0	0	46.83	0
May	41486	0	199	0	0	0	41.69	0
June	18673	0	2230	1400	18338	0	39.24	1400
July	21598	0	0	0	4834	0	26.43	0
August	23290	0	0	0	1164	0	24.45	0
September	23678	10200	0	0	9875	0	33.55	10200
October	3963	400	0	0	40397	0	44.36	400
November	34265	240	544	6170	26043	0	60.85	6410
December	66466	830	606	488	4513	183	71.89	1501
Annual Totals:	306623	11670	2668	11558	264692	2293	580.31	25521
Jan June	133363	0	7539	4900	177866	2110	318.77	7010
July - Dec.	173260	11670	1453	6658	86826	183	261.54	18511

For References see "Emission Summary Sheet"

* NOTE: If 3400 MMscf of natural gas is exceeded (12 mo. rolling avg.), semiannual compliance stack tests shall be conducted.

	12-Mo. Rolling Avg.	12-Mo. Rolling Avg.
Month	Natural Gas (MMscf)	Fuel Oil (gallons)
January	63.4	3500
February	123.6	3500
March	191.0	5610
April	237.8	5610
May	279.5	5610
June	318.8	7010
July	345.2	7010
August	369.7	7010
September	403.2	17210
October	447.6	17610
November	508.4	24020
December	580.3	25521

Data Reviewed By:

TA-3 Steam Plant Emissions by Boiler

	Emission Factor	Factor	>	Unit Emissions	Su	בֿו ב	Unit Emissions	Su	5 	Unit Emissions	St
			a di ca	Boilor #1 Stock 022	032	1100	20 40049 C# xolio	655	0	- C+ -	
Dollintant	Natural	())!()		# 1, Stack	1032		# 2, 3tdCr	550.1		Dollei #3, Stack U34	034
	Gas	Pounds/	Annual	Jan-June	July-Dec	Annual	Jan-June	July-Dec	Annual	Jan-June	July-Dec
Criteria	(lb/MMscf) ^(a)	1000 gal	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
Nox ^(c)	58	8.64	8.942	3.868	5.075	0.311	0.240	0.071	7.686	5.167	2.519
Sox ^(g)	9.0	7.4	0.135	0.040	0.095	0.045	0.020	0.025	0.088	0.061	0.027
PM ^(d)	7.6	3.3	1.184	0.507	0.678	0.053	0.037	0.017	1.010	0.679	0.330
PM-10 ^(d)	7.6	2.3	1.179	0.507	0.672	0.047	0.034	0.013	1.008	0.678	0.330
PM-2.5 ^(d)	7.6	1.55	1.174	0.507	0.667	0.043	0.032	0.011	1.008	0.678	0.330
(CO ^(e)	40	5.0	6.162	2.667	3.494	0.209	0.163	0.046	5.300	3.563	1.737
VOC	5.2	0.2	0.844	0.367	0.478	0.026	0.021	0.005	0.728	0.489	0.239
HAPs ⁽ⁿ⁾											
Arsenic	0.0002	0.00055	3.39E-05	1.33E-05	2.05E-05	4.07E-06	2.10E-06	1.97E-06	2.71E-05	1.84E-05	8.73E-06
Benzene	0.0021	1	3.22E-04	1.40E-04	1.82E-04	9.44E-06	7.92E-06	1.53E-06	2.78E-04	1.87E-04	9.12E-05
Beryllium	0.000012	0.00041	4.24E-06	8.00E-07	3.44E-06	2.43E-06	1.05E-06	1.38E-06	2.06E-06	1.50E-06	5.59E-07
Cadmium	0.0011	0.00041	1.71E-04	7.33E-05	9.77E-05	7.32E-06	5.15E-06	2.17E-06	1.46E-04	9.83E-05	4.78E-05
Chromium	0.0014	0.00041	2.17E-04	9.34E-05	1.24E-04	8.67E-06	6.28E-06	2.39E-06	1.86E-04	1.25E-04	6.08E-05
Cobalt	0.000084		1.29E-05	5.60E-06	7.28E-06	3.78E-07	3.17E-07	6.10E-08	1.11E-05	7.47E-06	3.65E-06
Dichlorobenzene	0.0012	•	1.84E-04	8.00E-05	1.04E-04	5.40E-06	4.52E-06	8.72E-07	1.59E-04	1.07E-04	5.21E-05
Formaldehyde	0.0075	0.048	1.43E-03	5.00E-04	9.30E-04	3.11E-04	1.46E-04	1.65E-04	1.05E-03	7.18E-04	3.30E-04
Hexane	1.8	•	2.76E-01	1.20E-01	1.56E-01	8.09E-03	6.79E-03	1.31E-03	2.38E-01	1.60E-01	7.81E-02
Lead	0.0005	0.00123	8.39E-05	3.33E-05	5.05E-05	9.37E-06	4.91E-06	4.47E-06	6.76E-05	4.58E-05	2.18E-05
Mangenese	0.00038	0.00082	6.31E-05	2.53E-05	3.77E-05	6.46E-06	3.45E-06	3.01E-06	5.12E-05	3.47E-05	1.66E-05
Mercury ⁽¹⁾	0.00026	0.00041	4.23E-05	1.73E-05	2.49E-05	3.54E-06	1.99E-06	1.56E-06	3.49E-05	2.36E-05	1.13E-05
Napthalene	0.00061	•	9.35E-05	4.07E-05	5.28E-05	2.74E-06	2.30E-06	4.43E-07	8.07E-05	5.42E-05	2.65E-05
Nickel	0.0021	0.00041	3.24E-04	1.40E-04	1.84E-04	1.18E-05	8.92E-06	2.89E-06	2.78E-04	1.87E-04	9.12E-05
ЬОМ	0.000088	0.0033	3.27E-05	5.87E-06	2.69E-05	1.95E-05	8.42E-06	1.10E-05	1.54E-05	1.13E-05	4.12E-06
Selenium	0.000024	0.00206	1.57E-05	1.60E-06	1.41E-05	1.20E-05	5.13E-06	6.86E-06	5.53E-06	4.30E-06	1.23E-06
	0.0034	-	5.21E-04	2.27E-04	2.95E-04	1.53E-05	1.28E-05	2.47E-06	4.50E-04	3.02E-04	1.48E-04
TOTAL HAPS			2.80E-01	1.21E-01	1.58E-01	8.52E-03	7.01E-03	1.52E-03	2.41E-01	1.62E-01	7.91E-02

For References, see Emission Summary.

* TA-3 Steam Plant 12 Month Rolling Emissions (Tons)

		9	-			
Pollutant	TSP	PM10	Ň	္ပ	200	SO ₂
Permit Limit (tons/yr) 12-Month Rolling	46.7	4 1	ů,		7	o o
	2		2.5	?	-	200
January	0.247	0.245	1.853	1.276	0.175	0.032
February	0.476	0.474	3.600	2.481	0.340	0.050
March	0.735	0.732	5.564	3.834	0.526	0.078
April	0.913	0.910	6.922	4.771	0.655	0.092
Мау	1.071	1.069	8.131	5.605	0.769	0.105
June	1.223	1.219	9.275	6.393	0.877	0.122
July	1.323	1.320	10.041	6.922	036.0	0.129
August	1.416	1.413	10.750	7.411	1.017	0.137
September	1.561	1.552	11.767	8.107	1.111	0.185
October	1.730	1.721	13.056	8.995	1.233	0.199
November	1.972	1.960	14.848	10.228	1.401	0.241
December	2.247	2.235	16.939	11.670	1.598	0.268

* For 2003, the rolling total does not include 2002. This is only summing monthly emissions for 2003 (not true 12-month rolling avg.). Starting with 04', 03' will be included making it a true 12 mo. rolling avg.

Monthly Emission Totals (Tons)

Pollutant	TSP	PM10	NOX	03	200	50_2
January	0.247	0.245	1.853	1.276	0.175	0.032
February	0.229	0.229	1.747	1.205	0.166	0.018
March	0.260	0.259	1.964	1.353	0.186	0.028
April	0.178	0.178	1.358	0.937	0.129	0.014
May	0.158	0.158	1.209	0.834	0.115	0.013
June	0.151	0.151	1.144	0.788	0.108	0.017
July	0.100	0.100	0.767	0.529	0.073	0.008
August	0.093	0.093	0.709	0.489	0.067	0.007
September	0.144	0.139	1.017	0.697	0.093	0.048
October	0.169	0.169	1.288	0.888	0.122	0.015
November	0.242	0.239	1.792	1.233	0.168	0.042
December	0.276	0.275	2.091	1.442	0.198	0.027
Annual Totals	2.247	2.235	16.939	11.670	1.598	0.268

TA-3 Steam Plant 2003 Emission Summary

	Emission Factor	ו Factor		Jan-June	July-Dec	Reference	ence	Reference
\$ control	Notiro	jiiO rema	Annual Emissions (Natural Gas	Emissions (Natural Gas + Fuel	Emissions (Natural Gas + Fuel			(a) AP-42, 7/98, Section. 1.4, Natural Gas Combustion, Tables 1.4-1, 1.4-2
	Gas	(lb/1000	t ruel Oii) (tons)	Oil) (tons)	Oil)	ı	,	(b) Fuel usage obtained from Jerry Gonzales (FWO-UI). Values are provided in a monthly data
Criteria	(lb/MMscf)	gal.)		,	, <u>)</u>	Gas	ö	deliverable from KSL.
NOX	58	8.64	16.939	9.275	7.665	(c)	(၁)	(c) Average of source tests conducted on all 3 boilers
SOx	9.0	7.4		0.122	0.147	(a)(j)	(j)(b)	September 2002 burning natural gas atter FGR installed. Assumed FGR resulted in similar Nox
PM	7.6	3.3	2.247	1.223	1.024	(p)	(p)	reduction for oil.
PM-10	7.6	2.3	2.235	1.219	1.015	(p)	(p)	
PM-2.5	7.6	1.55	2.225	1.217	1.008	(p)	(p)	(d) Emission factors for natural gas of PM-10 and PM-
03	40	5.0		6.393	5.277	(q)	(b)	2.5 are roughly equal to those of PM, (AP-42, 9/98, Table 4.4-2). The DM EE for No. 2 find oil is the sum of
VOC	5.5	0.5	1.598	0.877	0.721	(q)	(E)	filterable and condensable PM (AP-42, 9/98, Tables 1.3-
_u sdYH						-		1 and 1.3-2).
Arsenic	0.0002	0.00055	6.50E-05	3.38E-05	3.12E-05	(a)	(k)	(e) AP-42, 1/95, Section. 1.4, Natural Gas Combustion,
Benzene	0.0021	•	6.09E-04	3.35E-04	2.75E-04	(c)		Table 1.4-2. Consistent with previous stack tests.
Beryllium	0.000012	0.00041	8.73E-06	3.35E-06	5.37E-06	(o)	(k)	
Cadmium	0.0011	0.00041	3.24E-04	1.77E-04	1.48E-04	(c)	(k)	(f) AP-42, 9/98, Section. 1.3, Fuel Oil Combustion,
Chromium	0.0014	0.00041	4.11E-04	2.25E-04	1.87E-04	(၁)	(k)	Table 1.3-1 with Errata, Table 1.3-3, and Table 1.3-6
Cobalt	0.000084	•	2.44E-05	1.34E-05	1.10E-05	(c)		
Dichlorobenzene	0.0012	•	3.48E-04	1.91E-04	1.57E-04	(c)		(g) Boilers>100 MMBtu/hr: SOx Emission Factor (SO ₂
Formaldehyde	0.0075	0.048	2.79E-03	1.36E-03	1.43E-03	(c)	(X	{142S} + SO ₃ (5.7S}) = 147.7 * S (from AP-42, Table
Hexane	1.8		5.22E-01	2.87E-01	2.35E-01	(c)		1.3-1 W/Errata) (S = weignt % suitur in oii)(Suitur content per analysis on oil in tanks in August 01', no
Lead	0.0005	0.00123	1.61E-04	8.40E-05	7.68E-05	(c)	(k)	new oil delivered in 02/03')
Mangenese	0.00038	0.00082	1.21E-04	6.34E-05	5.73E-05	(၁)	(k)	
Mercury	0.00026	0.00041	8.07E-05	4.29E-05	3.78E-05	(i)(c)	(i)(k)	90'0 =(%)S
Napthalene	0.00061		1.77E-04	9.72E-05	7.98E-05	(c)		(h) HAP emission factors for natural gas from AP-42,
Nickel	0.0021	0.00041	6.15E-04	3.36E-04	2.78E-04	(c)	(k)	Tables 1.4-3 an 1.4-4, for fuel oil from AP-42 Tables 1.3
POM	0.000088	0.0033	6.76E-05	2.56E-05	4.21E-05	(c)	(k)	o and 1.3-10.
Selenium	0.000024	0.00206	3.32E-05	1.10E-05	2.22E-05	(c)	(k)	
Toluene	0.0034	•	9.87E-04	5.42E-04	4.45E-04	(c)		(i) AP-42, Table 1.4-2, 1.4-3, and 1.4-4, July 1998
TOTAL HAPS			5.29E-01	2.90E-01	2.39E-01			
EPCRA 313				lbs./year				(j) Assume all SO ₃ is converted to sulfuric acid.
Lead	0.0005	0.00123	1.61E-04	0.322		(c)	(i)(k)	
Sulfuric Acid	09.0	0.285	1.78E-01	355.46		(e)(j)	(e)(h)	(k) AP-42, tables 1.3-9 and 1.3-10, September 1998.
Mercury	0.00026	0.00041	8.07E-05	0.161		(၁)	(i)(k)	
PACs	8.69E-07	1.65E-05	4.63E-07	9.25E-04		(f)(l)	(f)(l)	(I) EPCRA PAC Guidance Document, Table 2-3.
Benzo(g,h,i) perylene	1.20E-06	2.26E-06	3.77E-07	7.54E-04		(i)(k)(c)	(f)	Rêviewed By/Date:
Zinc	•	0.00055	6.99E-06	1.40E-02			(k)	

2003 TA-21 Steam Plant Data Entry / Fuel Use

DATA ENTRY

	Monthly	Monthly Fuel Use				
	TA-2	TA-21-357	Converted		Natural Gas	Fuel Oil
	Natural Gas	Fuel Oil	Natural Gas	Month	12-Month Rolling Average	12-Month Rolling Average
Month	(MCF)	(gallons)	(MMscf)		(MMscf)	(Gallons)
January	3,738	142	3.74	January	3.74	142
February	3,705	0	3.71	February	7.44	142
March	3,500	0	3.50	March	10.94	142
April	2,782	0	2.78	April	13.73	142
Мау	2,201	73	2.20	May	15.93	215
June	1,810	43	1.81	June	17.74	258
July	1,626	0	1.63	July	19.36	258
August	1,606	0	1.61	August	20.97	258
September	1,765	0	1.77	September	22.73	258
October	2,105	0	2.11	October	24.84	258
November	3,137	7	3.14	November	27.98	265
December	3,942	14	3.94	December	31.92	279
Annual Totals:	31,917	279	31.92			
Jan June	17,736	258	17.74			
July - Dec.	14,181	21	14.18			

Permit Limit = 60 MMScf/yr natural gas (12 month rolling average) and 10,000 gal/yr fuel oil (12 month rolling average)

2003 TA-21 Steam Plant Emission Summary

Pollutant	Annual Emissions (Natural Gas + Fuel Oil)	Jan-June Emissions (Natural Gas + Fuel Oil)	July-Dec Emissions (Natural Gas + Fuel Oil)
Criteria	(tons)	(tons)	(tons)
NOx	1.599	0.889	0.709
SOx	0.016	0.012	0.005
PM	0.122	0.068	0.054
PM-10	0.122	890.0	0.054
PM-2.5	0.122	0.068	0.054
ဝ၁	1.341	0.746	0.596
VOC	0.088	0.049	0.039
HAPs			
Arsenic	3.27E-06	1.84E-06	1.42E-06
Benzene	3.35E-05	1.86E-05	1.49E-05
Beryllium	2.49E-07	1.59E-07	8.94E-08
Cadmium	1.76E-05	9.81E-06	7.80E-06
Chromium	2.24E-05	1.25E-05	9.93E-06
Cobalt	1.34E-06	7.45E-07	5.96E-07
Dichlorobenzene	1.92E-05	1.06E-05	8.51E-06
Formaldehyde	1.26E-04	7.27E-05	5.37E-05
Hexane	2.87E-02	1.60E-02	1.28E-02
Lead	8.15E-06	4.59E-06	3.56E-06
Mangenese	6.18E-06	3.48E-06	2.70E-06
Mercury	4.21E-06	2.36E-06	1.85E-06
Napthalene	9.73E-06	5.41E-06	4.33E-06
Nickel	3.36E-05	1.87E-05	1.49E-05
POM	1.86E-06	1.21E-06	6.59E-07
Selenium	6.70E-07	4.78E-07	1.92E-07
Toluene	5.43E-05	3.02E-05	2.41E-05
	7.64E-08	1.53E-04	0.00E+00
TOTAL HAPS	2.91E-02	1.63E-02	1.29E-02
EPCRA 313		lbs./year	
Lead	8.15E-06	0.016	
Sulfuric Acid	1.64E-02	32.81	
Mercury	4.21E-06	0.008	
	1.62E-08	3.23E-05	
Benzo(g,h,i) perylene	1.95E-08	3.89E-05	

2003 TA-21 Steam Plant Emissions Calculations

			17.5	Greath		Cillissions calculations	Calcula	20113			
			Naturai Gas					Fuel Oil			Reference
Politicat	Emission	Annual	Emissions Emissi	Emissions		Emission		Emissions Emissions	Emissions		(a) Fuel usage obtained from Jerry
Criteria	Factor (Ib/MMsof)	Emissions (4050)	(tons)	(tons)	Ref.	Factor	Emissions	(tons)	(tons)	Ref.	Gonzales, FWO-UI
XON	1001		Jan-June	July-Dec	()	(ID/1000 gal)	(tons)	Jan-June	July-Dec		
V C	001			0.709	<u>a</u>	20	2.79E-03	2.58E-03	2.10E-04	(a)	(b) AP-42, 7/98, Section. 1.4,
SOX	0.0	0.010		0.004	(q)	49.0	6.83E-03	6.32E-03	5.14E-04	(h)	Natural Gas Combustion, Tables
Wd	7.6		0.067	0.054	(q)	3.3	4.60E-04	4.26E-04	3.47E-05	(D)	1.4-1, 1.4-2.
PM-10	7.6	0.121	0.067	0.054	(p)	2.3	3.21E-04	2.97E-04	2.42E-05		(c) AP-42 7/98, Section 1.4,
PM-2.5	7.6	0.121	0.067	0.054	(p)	1.55	2.16E-04	2.00E-04	1.63E-05	1	Natural Gas Combustion, Tables
00	84	1.341	0.745	0.596	(Q)	5.0	6.98E-04	6.45E-04	5.25E-05	9	1.4-3, 1.4-4.
VOC	5.5	0.088	0.049	0.039	(Q)	0.2	2.79E-05	2.58E-05	2.10E-06		(d) PM-10 and PM-2.5 for natural
HAPs											gas combustion roughly equal to
Arsenic	0.0002	3.19E-06	1.77E-06	1.42E-06	(၁)	0.00055	7.64E-08	7.07E-08	5.75E-09	(S	PM, per AP-42, Natural Gas
Benzene	0.0021	3.35E-05	1.86E-05	1.49E-05	(c)						Combustion, Table 1.4-2.
Beryllium	0.000012	1.92E-07	1.06E-07	8.51E-08	(c)	0.00041	5.73E-08	5.30E-08	4.32E-09	(K)	(e) Assume all SOx is converted to
Cadmium	0.0011	1.76E-05	9.75E-06	7.80E-06	(၁)	0.00041	5.73E-08	5.30E-08	4.32E-09	3	sulfuric acid.
Chromium	0.0014	2.23E-05	1.24E-05	9.93E-06	(c)	0.00041	5.73E-08	5.30E-08	4.32E-09	3	(f) EPCRA PAC Guidance
Cobalt	0.000084	1.34E-06	7.45E-07	5.96E-07	<u>(၁</u>						Document, Table 2-3.
Dichlorobenzene	0.0012	1.92E-05	1.06E-05	8.51E-06	(2)						(g) AP-42, 9/98, Section. 1.3, Fuel
Formaldehyde	0.0075	1.20E-04	6.65E-05	5.32E-05	(၁)	0.048	6.70E-06	6.19E-06	5.04E-07	3	Oil Combustion, Table 1.3-1 with
Hexane	1.8	2.87E-02	1.60E-02	1.28E-02	(၁)						Errata. The PM emission factor is
Lead	0.0005	7.98E-06	4.43E-06	3.55E-06	(၁)	0.00123	1.72E-07	1.59E-07	1.29E-08	3	condensable PM.
Mangenese	0.00038	6.06E-06	3.37E-06	2.69E-06	<u>ပ</u>	0.00082	1.15E-07	1.06E-07	8.63E-09	3	(h) S = weight % suffir in oil (Title
Mercury	0.00026	4.15E-06	2.31E-06	1.84E-06	<u></u>	0.00041	5.73E-08	5.30E-08	4.32E-09	3	V Application, December 1995)
Napthalene	0.00061	9.73E-06	5.41E-06	4.33E-06	<u>(</u>)						Boilers <100 MMBtu/hr: SOx
Nickel	0.0021	3.35E-05	1.86E-05	1.49E-05	(၁)	0.00041	5.73E-08	5.30E-08	4.32E-09	(K)	Emission Factor = 144 * S
РОМ	0.000088	1.40E-06	7.80E-07	6.24E-07	(c)	0.0033	4.60E-07	4.26E-07	3.47E-08	(K	S(%)= 0.34
Selenium	0.000024	3.83E-07	2.13E-07	1.70E-07	(c)	0.00206	2.87E-07	2.65E-07	2.16E-08	(K)	(i) AP-42, 9/98, Section 1.3, Fuel
Toluene	0.0034	5.43E-05	3.02E-05	2.41E-05	(၁)						Oil Combustion, Table 1.3-3
TOTAL HAPS		2.91E-02	1.61E-02	1.29E-02			8.09E-06	7.48E-06	6.09E-07		NMTOC.
EPCRA 313			lbs./year					lbs./year			(j) AP-42 9/98, Section 1.3, Fuel
Lead	9000.0	7.98E-06	0.016		(O	0.00123	1.72E-07	3.44E-04		(X	Oil Combustion, Table 1.3-6. The
Sulfuric Acid	09'0	9.58E-03	19.150		(e)	49.0	6.83E-03	13.660		(e)(h)	PM emission factor is the sum of
Mercury	0.00026	4.15E-06	8.30E-03		(၁)	0.00041	5.73E-08	1.15E-04		3	interable and condensable PM.
PACs	8.69E-07	1.39E-08	2.77E-05		(t)	1.65E-05	2.30E-09	4.60E-06		€	(k) AP-42, 9/98, Section 1.3, Fuel
Benzo(g,h,i) perylene	1.20E-06	1.92E-08	3.83E-05		(c)	2.26E-06	3.15E-10	6.31E-07			Oil Combustion, Tables 1.3-8, 1.3-
Zinc						0.00055	7.64E-08	1.53E-04			10.

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3/22/04

LOS ALAMOS NATIONAL LABORATORY'S 2003 EMISSIONS INVENTORY

Submitted as Required by:

Title 20, Chapter 2, Part 73 of the New Mexico Administrative Code

Prepared by:

The University of California

For:

The National Nuclear Security Administration of the United States Department of Energy

Information Contacts:

Margie Stockton, (505) 667-9359 Jean Dewart, (505) 665-0239

Certification Statement

I, Beverly A. Ramsey, hereby certify on behalf of Los Alamos National Laboratory and the University of California, that the information and statements contained in this Emissions Inventory report are true and accurate to the best of my knowledge and belief.

Beyerly A. Ramsey

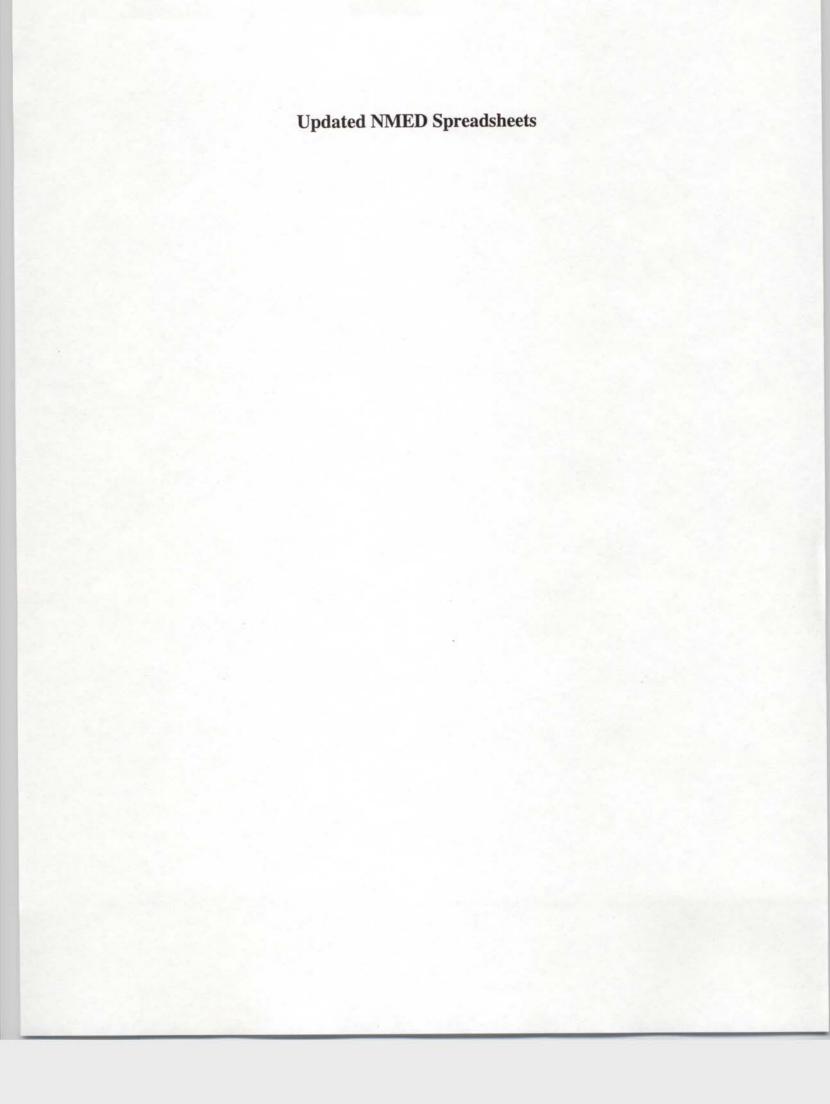
Division Leader

Risk Reduction and Environmental Stewardship Division

University of California

Los Alamos National Laboratory

(505) 667-2211



Permit Number	1081M1R3,2195,2195 B,0632,0634M2,0635, 0636
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City	Los Alamos
Street Name	Mail Stop J978
Street Line 1	PO Box 1663, Air Quality Group
Facility Description	National Security
Facility	Los Alamos National Laboratory
Inventory Year (YYYY)	2003

County FIPS	Facility Name	Emission Type	Pollutant Code	CAS Number	Emission Numeric Value	Emission Unit Numerator
028	Los Alamos National Labo		CO	630080	32.10	TY
)28	Los Alamos National Labo		NO2	10102440	49.51	TY
28	Los Alamos National Labo	12	PM10		17.38	TY
28	Los Alamos National Labo		PM25		16.46	TY
28	Los Alamos National Labo		PT		22.22	TY
28	Los Alamos National Labo		SO2	7446095	1.65	
28	Los Alamos National Labo		VOC	101110000	49.32	
	Los Alamos National Labo		THAP		10.76	
28	Los Alamos National Labo		NH3	7664417	0.22	
28	Los Alamos National Lab		AB	7004417		TY
28	Los Alamos National Labo		AL-PT	7429905	3.30E-06	
28	Los Alamos National Labo		BE	7440417	3.71E-06	
	Los Alamos National Labo		BZ	71432	0.37	
)28	Los Alamos National Labo		CL	7782505	0.07	
28			FORM	50000	0.38	
)28	Los Alamos National Labo		HC81	1330207	0.01	
)28	Los Alamos National Labo				3.65	
)28	Los Alamos National Labo		HCL	7647010		
)28	Los Alamos National Labo		MN-PT	7439965		TY
28	Los Alamos National Labo		TOLU	108883	0.26	THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS OF THE PERTY AND ADDRESS OF THE PERTY ADDRESS O
)28	Los Alamos National Labo		100027	100027	9.23E-06	
)28	Los Alamos National Labo		100027	100027	0.004	
)28	The state of the s			100414	0.16	
)28	Los Alamos National Labo		100425			TY
)28	Los Alamos National Labo		100447	100447		TY
)28	Los Alamos National Labo		101688	101688		
)28	Los Alamos National Labo		106423	106423	0.0016	
)28	Los Alamos National Labo		106445	106445		TY
028	Los Alamos National Labo	12	106467	106467	0.0004	
028	Los Alamos National Labo	12	106503	106503		TY
028	Los Alamos National Labo	12	106514	106514	0.0002	
028	Los Alamos National Labo	12	106887	106887	0	TY
028	Los Alamos National Labo	12	106898	106898	0.00011	TY
028	Los Alamos National Labo	12	106934	106934	0.0002	TY
28	Los Alamos National Labo	12	106990	106990	2.82E-06	TY
28	Los Alamos National Labo		107028	107028	0.34	TY
028	Los Alamos National Labo		107062	107062	0.06	TY
)28	Los Alamos National Labo		107131	107131	0.0006	
)28	Los Alamos National Labo		107211	107211		TY
	Los Alamos National Labo		107302	107302	0.00003	
)28			108054	108054		TY
028	Los Alamos National Labo			108101	0.025	
)28	Los Alamos National Labo		108101		0.0001	
028	Los Alamos National Labo		108383	108383		
028	Los Alamos National Labo		108394	108394	0.0003	
028	Los Alamos National Labo		108907	108907	0.011	
028	Los Alamos National Labo		108952	108952	0.007	
028	Los Alamos National Labo		109	109	0.0001	
028	Los Alamos National Labo	12	110543	110543	1.24	
028	Los Alamos National Labo		111422	111422		TY
028	Los Alamos National Labo	12	1120714	1120714		TY
028	Los Alamos National Labo	12	117817	117817	3.95E-06	TY
028	Los Alamos National Labo	12	120809	120809	(TY
028	Los Alamos National Labo		120821	120821	(TY
028	Los Alamos National Labo		121448	121448	0.005	TY
028	Los Alamos National Labo		121697	121697		TY
	Los Alamos National Labo		122667	122667		TY
028	Los Alamos National Labo		123319	123319	0.012	
028 028	Los Alamos National Labo		123386	123386	0.005	

		92222		0 0047 TV
028	Los Alamos National Labo 12	123911	123911	0.0017 TY
028	Los Alamos National Labo 12	125	125	0.008 TY
028	Los Alamos National Labo 12	127184	127184	0.009 TY
			136	0.038 TY
028	Los Alamos National Labo 12	136		
028	Los Alamos National Labo 12	139	139	0.004 TY
028	Los Alamos National Labo 12	140885	140885	0 TY
028	Los Alamos National Labo 12	144	144	0.017 TY
				0 TY
028	Los Alamos National Labo 12	156627	156627	
028	Los Alamos National Labo 12	1634044	1634044	0 TY
028	Los Alamos National Labo 12	171	171	0.044 TY
028	Los Alamos National Labo 12	1746016	1746016	7.23E-10 TY
			18540299	0.0003 TY
028	Los Alamos National Labo 12	18540299		
028	Los Alamos National Labo 12	195	195	0.006 TY
028	Los Alamos National Labo 12	198	198	1.28 TY
028	Los Alamos National Labo 12	199	199	0.001 TY
			226	0.011 TY
028	Los Alamos National Labo 12	226		
028	Los Alamos National Labo 12	234	234	0 TY
028	Los Alamos National Labo 12	246	246	0.0035 TY
028	Los Alamos National Labo 12	253	253	0.0014 TY
			302012	0.0007 TY
028	Los Alamos National Labo 12	302012		
028	Los Alamos National Labo 12	383	383	0.026 TY
028	Los Alamos National Labo 12	3CLET	79016	0.012 TY
028	Los Alamos National Labo 12	463581	463581	0 TY
ALC: UNITED STATES	Los Alamos National Lat 12	51207319	51207319	0 TY
028				0.00002 TY
028	Los Alamos National Labo 12	51285	51285	
028	Los Alamos National Labo 12	540841	540841	0 TY
028	Los Alamos National Labo 12	542881	542881	0 TY
028	Los Alamos National Labo 12	56235	56235	0.01 TY
		57125	57125	0 TY
028	Los Alamos National Labo 12	5/125		
028	Los Alamos National Labo 12	57147	57147	0 TY
	Los Alamos National Labo 12 Los Alamos National Labo 12	57147 584849	57147 584849	0 TY 0 TY
028	Los Alamos National Labo 12	584849	584849	0 TY
028 028	Los Alamos National Labo 12 Los Alamos National Labo 12	584849 60344	584849 60344	0 TY 0 TY
028 028 028	Los Alamos National Labo 12 Los Alamos National Labo 12 Los Alamos National Labo 12	584849 60344 60355	584849 60344 60355	0 TY 0 TY 0.0004 TY
028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624	584849 60344 60355 624	0 TY 0 TY 0.0004 TY 7.56E-09 TY
028 028 028	Los Alamos National Labo 12 Los Alamos National Labo 12 Los Alamos National Labo 12	584849 60344 60355	584849 60344 60355	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY
028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624	584849 60344 60355 624	0 TY 0 TY 0.0004 TY 7.56E-09 TY
028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561	584849 60344 60355 624 62533 67561	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY
028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663	584849 60344 60355 624 62533 67561 67663	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY
028 028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319	584849 60344 60355 624 62533 67561 67663 680319	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY
028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122	584849 60344 60355 624 62533 67561 67663 680319 68122	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY
028 028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319	584849 60344 60355 624 62533 67561 67663 680319	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY
028 028 028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122	584849 60344 60355 624 62533 67561 67663 680319 68122	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY
028 028 028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0 TY
028 028 028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0 TY
028 028 028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020	0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0 TY 0 TY
028 028 028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0 TY 0 TY 0 TY 0 TY 0 TY 0 TY
028 028 028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0 TY 0 TY 0 TY 0 TY 0 TY 0 TY
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014 75058	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014 75058	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014 75058 75070	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014 75058 75070 75092	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014 75058 75070 75092	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014 75058 75070 75092 75150	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014 75058 75070 75092 75150	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0
028 028 028 028 028 028 028 028	Los Alamos National Labo 12	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014 75058 75070 75092	584849 60344 60355 624 62533 67561 67663 680319 68122 71556 7439921 7439976 7440020 7440360 7440382 7440417 7440439 7440473 7440484 74839 74873 74884 75003 75014 75058 75070 75092	0 TY 0 TY 0 TY 0.0004 TY 7.56E-09 TY 0.0001 TY 0.73 TY 0.15 TY 0 TY 0.048 TY 0.009 TY 0

028	Los Alamos National Labo 12	75343	75343	0 TY
028	Los Alamos National Labo 12	75354	75354	0 TY
028	Los Alamos National Labo 12	75445	75445	0.0004 TY
028	Los Alamos National Labo 12	7550450	7550450	0.0010 TY
028	Los Alamos National Labo 12	75558	75558	0 TY
028	Los Alamos National Labo 12	75569	75569	0.0015 TY
028	Los Alamos National Labo 12	7664393	7664393	0.023 TY
028	Los Alamos National Labo 12	7723140	7723140	0.0025 TY
028	Los Alamos National Labo 12	77474	77474	0 TY
028	Los Alamos National Labo 12	77781	77781	0.0001 TY
028	Los Alamos National Labo 12	7782492	7782492	0 TY
028	Los Alamos National Labo 12	7803512	7803512	0 TY
028	Los Alamos National Labo 12	78875	78875	0.003 TY
028	Los Alamos National Labo 12	78933	78933	0.46 TY
028	Los Alamos National Labo 12	79005	79005	0.0096 TY
028	Los Alamos National Labo 12	79016	79016	0.009 TY
028	Los Alamos National Labo 12	79061	79061	0.0096 TY
028	Los Alamos National Labo 12	79107	79107	0.0013 TY
028	Los Alamos National Labo 12	79118	79118	0 TY
028	Los Alamos National Labo 12	79345	79345	0.0009 TY
028	Los Alamos National Labo 12	80626	80626	0.001 TY
028	Los Alamos National Labo 12	822060	822060	0 TY
028	Los Alamos National Labo 12	84742	84742	5.77E-06 TY
028	Los Alamos National Labo 12	85449	85449	0 TY
028	Los Alamos National Labo 12	87865	87865	4.29E-06 TY
028	Los Alamos National Labo 12	88062	88062	1.85E-06 TY
028	Los Alamos National Labo 12	91203	91203	0.001 TY
028	Los Alamos National Labo 12	92	92	0.002 TY
028	Los Alamos National Labo 12	92524	92524	0 TY
028	Los Alamos National Labo 12	92671	92671	0 TY
028	Los Alamos National Labo 12	93	93	0.005 TY
028	Los Alamos National Labo 12	95476	95476	0.0099 TY
028	Los Alamos National Labo 12	96093	96093	0.00006 TY
028	Los Alamos National Labo 12	98828	98828	0.004 TY
028	Los Alamos National Labo 12	98862	98862	2.70E-07 TY
028	Los Alamos National Labo 12	98953	98953	0.002 TY
520 630				

ap ap	Design Capacity Unit	Capacity Unit Denominato	Max Nameplate Capacity	Description	Installation Date	Removal Date	Shut Down?
0 LB		YR	0 E	0 Be Machining TA-3 BLDG 39	1-Jan-85		TRUE
0 E6BTU	JT.	Ή	L 0	0 TA3-22 Boilers (3 Each) See	1-Jan-50	N	TRUE
0 E6BTU	2	壬 :	0	0 TA16 Boiler (3 Each) -	1-Jan-50	1-Jan-97	TRUE
30.6 E6B1U	2 5	Ĭ.	30.00	O TO Site Boiler (Not Built)	1-0411-00		FALSE
1000018	2	K X	10000	10000 Be Machining TA35 BLDG 213	26-Dec-85		FALSE
10000 LB		YR	10000	10000 Be Machining TA3 BLDG 141	19-Mar-85		FALSE
0 LB		YR	0	0 Be Machining TA3 BLDG 102	19-Mar-86		FALSE
0 LB		YR	0 E	0 Be Shop TA3-35 (Not Built)		22-Oct-02	TRUE
1100 LB		YR	1100 E	1100 Be Cutting & Beand Dressing	1-Jan-78		FALSE
1100 LB		YR	1100 1	1100 Metallography TA55-4 North	1-Jan-78		FALSE
0 E6BTU	1	HH	0 8	0 Solid Waste Fired Boiler (Not			FALSE
NOT 09	_	HH	09	60 Asphalt Plant TA-3-73	1-Jan-60		TRUE
700 HP		Ŧ	700 (700 Caterpillar HCR TA SI Pump	1-Jan-82	1-Nov-01	TRUE
5.3 E6BTU	2	¥	6.3	6.3 Boiler (TA-48-1) BS-1	1-Aug-87		FALSE
5.3 E6BTU	2	Ή	6.3	6.3 Boiler (TA-48-1) BS-2	1-Oct-76		FALSE
7.1 E6BTU	2	또	8.4	8.4 Boiler (TA-48-1) BS-6	1-Oct-94		FALSE
7.1 E6BTU	11	H	8.4 6	8.4 Boiler (TA-53-365) BHW-1	1-Jan-88		FALSE
7.1 E6BTU	2	H	8.4	8.4 Boiler (TA-53-365) BHW-2	1-Jan-88		FALSE
5.3 E6BTU	2	뚜	6.3	6.3 Boiler (TA-59-1) BHW-1	1-Sep-78		FALSE
5.3 E6BTU	2	뚜	6.3	6.3 Boiler (TA-59-1) BHW-2	1-Oct-94		FALSE
7.1 E6BTU	2	또	8.4	8.4 Boiler (TA-55-6) BHW-1	1-Jan-76		TRUE
7.1 E6BTU	1	또	8.4	8.4 Boiler (TA-55-6) BHW-2		1-Oct-01	TRUE
12.7 E6BTU	2	壬	15	15 Boiler and backup, TA-16, Plant			FALSE
15.6 E6BTU	T.	H!	18.4	18.4 Boiler and Backup, Plant 6 (TA-	1-Nov-96		FALSE
150 TON	7	# :	150 1	150 Rock Crusher	1-Jun-98		FALSE
300 LB		Ŧ	300	300 SEM-1424 Disintegrator paper	1-Jan-91		FALSE
20 L		DAY	201	20 Degreaser - cold ultrasonic	3- lin-00	6-Dec-01	TRUE
0 0		\AC	9	6 Degreeser - inhouse cold batch	1-Dec-99	-	TRUE
0 LB		ΥR	0	0 Research & Development	1-Jan-50		FALSE
189.5 E6BTU	BTU	뜻	210	210 TA3-22 Edgemoor Iron Works	1-Jan-50	0	FALSE
189.5 E6BTU	BTU	ቸ	210	210 TA3-22 Edgemoor Iron Works	1-Jan-50	0	FALSE
189.5 E6BTU	BTU	H	210	210 TA3-22 Edgemoor Iron Works	1-Jan-50	0	FALSE
3770 BBL		DAY	3770	3770 Tank TA-03-026 (No. 2 fuel oil)	1-Jan-52	01	FALSE
5455 BBL		DAY	5455	5455 Tank TA-03-779 (No. 2 fuel oil)	1-Aug-98		FALSE
12.4 E6BTU	3TU	H	14.6	14.6 Sellers Boiler BHW-1B(TA 55,	1-Oct-98		FALSE
12.4 E6BTU	3TU	Ή	14.6	14.6 Sellers Boiler BHW-2B(TA 55,	6-Sep-01		FALSE
20 TON	N	H	20	20 Air Curtain Destructor S-127	29-Oct-01		TRUE
20 TON	NO	H	20	20 Air Curtain Destructor T-350-1	26-Sep-01		TRUE
20 TON	NC	H	20	20 Air Curtain Destructor T-350-2	11-Oct-01	1-Oct-03	TRUE
5470 FT3	3	ZIW	2470	5470 Carpenter Shop TA-3-38	1-Jan-60	0	FALSE
21000 GAL	4L	DAY	21000	21000 Composite Mineral Oil Tank	1-Jan-86	10	FALSE
ITGST COF	and least a	-	000	10 C DOLLOT TA EO DI WITE	1-Fah-00		FAISH

Inventory Year (VVVV)	AIRS Stack	Emission Release Point Type	Stack	Stack	Exit Gas Temperature	Exit Gas Velocity	UTM	X Coordinate	Y
Ro Machi	001	020	54	-	70	38	13	380.48	3970.38
2003 TA3-22 Rollers (3 Each) See	000	00	68	8	416	12	13	380.5	3971
	003	05	65	5	0	0	13	378	3968
	004	05	41	2	68	13	13	385	3971
	000	05	0	0	0	0	13	380	3970
2003 Be Machining TA35 BLDG 213		05	71	-	70	38	13	382.85	3969.39
2003 Be Machining TA3 BLDG 141		02	20	2	70	47	13	381.2	3970.28
2003 Be Machining TA3 BLDG 102	800	05	45	8	70	19	13	380.5	3970.16
2003 Be Shop TA3-35 (Not Built)	600	05	0	0	0	0	13	380	3970.02
2003 Be Cutting & Beand Dressing	010	05	32	4	77	30	13	382	3969
	011	05	49	4	77	39	-	382	3969
2003 Solid Waste Fired Boiler (Not	012	05	0	0	0	0	-	382	3969
2003 Asphalt Plant TA-3-73	013	05	30	4	130	27	13	380	3970
2003 Caterpillar HCR TA SI Pump	014	05	17	-	977	75	13	386	3968
2003 Boiler (TA-48-1) BS-1	015	10	20	2	300	10	13	382	3970
2003 Boiler (TA-48-1) BS-2	016	10	20	N	300	10	13	382	3970
2003 Boiler (TA-48-1) BS-6	017	10	20	2	300	13	13	382	3970
2003 Boiler (TA-53-365) BHW-1	018	10	22	2	300	32	13	386	3970
2003 Boiler (TA-53-365) BHW-2	019	10	22	2	300	32	13	386	3970
2003 Boiler (TA-59-1) BHW-1	020	10	55	2	300	19	13	381	3970
2003 Boiler (TA-59-1) BHW-2	021	10	55	2	300	19	13	381	3970
2003 Boiler (TA-55-6) BHW-1	022	10	30	2	222	24	13	383	3970
2003 Boiler (TA-55-6) BHW-2	023	10	30	2	333	29	13	383	3970
2003 Boiler and backup, TA-16,	024	10	21	2	341		13		3967
F) 9	A. 025	10	19	2	341	14	13	379	3967
2003 Rock Crusher	026	10	e	co	70	0	13	379	3967
2003 SEM-1424 Disintegrator paper	027	10	26	-	70	29	13	384	3969
2003 Degreaser - cold ultrasonic	028	10	32	4	77	30	13	382	3969
2003 Degreaser - cold ultrasonic	029	10	32	-	70	8	13	384	3968
2003 Degreaser - inhouse cold	030	10	32	-	70		-		3968
2003 Research & Development	031	10	0	0			-		
2003 TA3-22 Edgemoor Iron Works	032	05	89	80			_		
2003 TA3-22 Edgemoor Iron Works	033	02	89	8		29	-		
2003 TA3-22 Edgemoor Iron Works	034	02	99	80	416	29	13		
2003 Tank TA-03-026 (No. 2 fuel oil)	035	02	0	0	0	0	-		
2003 Tank TA-03-779 (No. 2 fuel oil)	980 (02	0	0	0	0	13		
2003 Sellers Boiler BHW-1B(TA 55,	037	02	30	2	334	8	13		
2003 Sellers Boiler BHW-2B(TA 55,	038	02	30	2	334	8	13		
2003 Air Curtain Destructor S-127	039	02	10	17	2500	-	13		
2003 Air Curtain Destructor T-350-1	040	02	10	25	2500	-	13		
2003 Air Curtain Destructor T-350-2	041	02	10	25	2500	_	13		
2003 Carpenter Shop TA-3-38	045	05	17	1.1	75	4	-		
2003 Composite Mineral Oil Tank	043	02	0	0		0	13	n	m
2003 Roller TA-50 RI WTF	NEW	05	15	1.4	400	0.001	=======================================	382.8	3969.4

2003 2003 2003 2003 2003 2003	ID	SCCAFS	Description	Throughput	Throughput	Throughput	Throughput	Days Per Week	Weeks Per Year	Hours Per Day	Hours Per Year	Heat
2003 2003 2003 2003 2003	001	30903004	Be Machining TA-3 BLDG		0		0				0	0
2003 2003 2003 2003	005	10100601		0	0	0	0	0	0	0	0	0
2003	003	10100602	TA16 Boiler (3 Each) -	0	0		0	0			0	0
2003	004	10100602	Steam Plant Boiler TA21	25	25	25	25	7	52		8760	1030
2003	005	10100602	TD Site Boiler (Not Built)	0	0		0	0			0	0
0001	900	30903004		15	20	30	35	7	52		1920	0
2003	200	30903004	Be Machining TA3 BLDG	25	25		25	7	52		8760	0
2003	800	30903004	Be Machining TA3 BLDG	25	25		25	5			2400	0
2003	600	30903004		0	0		0	0			0	0
2003	010	30903004	Be Cutting & Beand	25	25	25	25	7	52		8760	0
2003	011	30900303	Metallography TA55-4 North	25	25		25	7	. 52	24	8760	0
2003	012	10301202	Solid Waste Fired Boiler	0	0		0	0	0		0	0
2003	013	30500211	Asphalt Plant TA-3-73	15	20	(6)	30	5		4	400	0
2003	014	20200202	Caterpillar HCR TA SI Pump	0	0	0	0	0	0	0	0	0
2003	015	10100602	Boiler (TA-48-1) BS-1	40	20	0	40	7	33	15	2200	1030
2003	016	10100602	Boiler (TA-48-1) BS-2	40	20	0	40	7	33		2200	1030
2003	017	10100602	Boiler (TA-48-1) BS-6	40	20	0	40	7	33		2200	1030
2003	018	10100602	Boiler (TA-53-365) BHW-1	40	20	0	40	7	33		2200	1030
2003	019	10100602	Boiler (TA-53-365) BHW-2	40	20	0	40	7	33		2200	1030
2003	020	10100602	Boiler (TA-59-1) BHW-1	40	20	0	40	1	33		2200	1030
2003	021	10100602	Boiler (TA-59-1) BHW-2	40	20	0	40	7	33		2200	1030
2003	022	10100602	Boiler (TA-55-6) BHW-1	0	0		0		0		0	0
2003	023	10100602	Boiler (TA-55-6) BHW-2	0	0	0	0	U	0		0	0
2003	024	10100602	Boiler and backup, TA-16.	25	25		25	1	, 52		8760	1030
2003	025	10100602	-	25	25	25	25	1	52		8760	1030
2003	020	30502501		0	0		0		0		0	0
2003	027	30701399	SEM-1424 Disintegrator	25	25		25		5 52		2080	0
2003	028	40100336	Degreeser - cold ultrasonic	25	25	5 25	25				520	0
2003	029	40100336	Degreeser - cold ultrasonic	0	0		0		0		0	0
2003	030	40100336	Degreeser - inhouse cold	0			0	Ü			0	0
2003	031	31503001	Research & Development	25	25	5 25	25		5 52	10		0
2003	032	10100601	TA3-22 Edgemoor Iron	30	20	20	30	, ,	52			1030
2003	033	10100601	TA3-22 Edgemoor Iron	30	20		30		52	24		1030
2003	034	10100601	TA3-22 Edgemoor Iron	30	20		30	17	52			1030
2003	035	39090004	Tank TA-03-026 (No. 2 fuel	30	20		30	15	52			137
2003	036	39090004	Tank TA-03-779 (No. 2 fuel	30	20	20	30		, 52			137
2003	037	10100602	Sellers Boiler BHW-1B(TA	40	50		40		33			1030
2003	038	10100602	Sellers Boiler BHW-2B(TA	40	20	0	40		7 33		5500	1030
2003	039	30181001	Air Curtain Destructor S-127	10	40		40		5 30	24		4200
2003	040	30181001	Air Curtain Destructor T-350-	10	40		40					4200
2003	041	30181001	Air Curtain Destructor T-350-	10	40	10	40	-,	30	10	1894	4500
2003	045	30700804	Carpenter Shop TA-3-38	20	30	30	20		5 50	8	2000	4200
2003	043	39090004	Composite Mineral Oil Tank	25	25	5 25	25		7 52	24	8760	0
2003	NEW	10100602	Boiler TA-50 RLWTF	25	25	5 25	25		8	12	192	1030

Year	AIRS Point ID	Description	Actual Throughput	Throughput Unit Numerator	Max Operating Rate Per Hour	Material Material I/O
2003	001	Be Machining TA-3 BLDG 39	0 LB	8	0	5161
2003	005	TA3-22 Boilers (3 Each) See Pt 32, 33,	0	0 E6FT3S	0	209 1
2003	003	TA16 Boiler (3 Each) - Removed	0	0 E6FT3S	0	209 1
2003	004	Steam Plant Boiler TA21 BLDG 357 (3)	31.9 E	31.9 E6FT3S	3.64E-03	209 1
2003	002	TD Site Boiler (Not Built)	0	0 E6FT3S	0	2091
2003	900	Be Machining TA35 BLDG 213	0 LB	8	0	5161
2003	200	Be Machining TA3 BLDG 141	10000 LB	В	1.141552511415	5161
2003	800	Be Machining TA3 BLDG 102	0 LB	В	0	5161
2003	600	Be Shop TA3-35 (Not Built)	0 LB	8	0	5161
2003	010	Be Cutting & Beand Dressing TA-55-4	1100 LB	В	0.125570776255	
2003	011	Metallography TA55-4 North Stack	1100 LB	В	0.125570776255	5161
2003	012	Solid Waste Fired Boiler (Not Built)	TO	NOT 0	0	1 292
2003	013	Asphalt Plant TA-3-73	1204 TON	NO	3.01	6471
2003	014	Caterpillar HCR TA SI Pump Engine	0	0 E6FT3S	0	2091
2003	015	Boiler (TA-48-1) BS-1	10.5 E	10.5 E6FT3S	1.91E-03	209 1
2003	016	Boiler (TA-48-1) BS-2	10.5 E	10.5 E6FT3S	1.91E-03	209 1
2003	017	Boiler (TA-48-1) BS-6	14.1 E	14.1 E6FT3S	2.56E-03	209 1
2003	018	Boiler (TA-53-365) BHW-1	14 E	14 E6FT3S	2.55E-03	209 1
2003	019	Boiler (TA-53-365) BHW-2	14 E	14 E6FT3S	2.55E-03	209 1
2003	020	Boiler (TA-59-1) BHW-1	10.5 E	10.5 E6FT3S	1.91E-03	209 1
2003	021	Boiler (TA-59-1) BHW-2	10.5 E	10.5 E6FT3S	1.91E-03	209 1
2003	022	Boiler (TA-55-6) BHW-1	0	0 E6FT3S	0	209
2003	023	Boiler (TA-55-6) BHW-2	0	0 E6FT3S	0	209
2003	024	Boiler and backup, TA-16, Plant-5	18.9 E	18.9 E6FT3S	3.44E-03	209
2003	025	Boiler and Backup, Plant 6 (TA-16-1485)	0	0 E6FT3S	0	209
2003	026	Rock Crusher	10	NOT 0	0	284
2003	027	SEM-1424 Disintegrator paper shredder	278460 LB	В	133.9	226
2003	028	Degreaser - cold ultrasonic bath TA-55-4	51 L		0.1	952
2003	029	Degreaser - cold ultrasonic bath TA-46-24			0	952 1
2003	030	Degreaser - inhouse cold batch TA-55-4	10		0	952
2003	031	Research & Development Activities -	0	NOT 0	0	
2003	032	TA3-22 Edgemoor Iron Works Boiler	306.6 E	306.6 E6FT3S	2.697488584474	
2003	033	TA3-22 Edgemoor Iron Works Boiler	9.0 E	9.0 E6FT3S	2.181506849315	
2003	034	TA3-22 Edgemoor Union Iron Works	264.7 E	264.7 E6FT3S	2.113013698630	209 1
2003	035	Tank TA-03-026 (No. 2 fuel oil)	25.5 E	25.5 E3GAL	2.91E-03	58 1
2003	036	Tank TA-03-779 (No. 2 fuel oil)	25.5 E	25.5 E3GAL	2.91E-03	58 1
2003	037	Sellers Boiler BHW-1B(TA 55, Bldg. PF6)	25.9 E	25.9 E6FT3S	4.71E-03	209
2003	038	Sellers Boiler BHW-2B(TA 55, Bldg. PF6)	1.44 E	1.44 E6FT3S	2.62E-04	209 1
2003	039	Air Curtain Destructor S-127	8593 TON	NO	4.54	151
2003	040	Air Curtain Destructor T-350-1	251 TON	NO.	5.58	151
2003	041	Air Curtain Destructor T-350-2	9827 TON	NO.	5.31	151
2003	045	Carpenter Shop TA-3-38	2706 F	2706 FT3/min	0.00	151
2003	043	Composite Mineral Oil Tank	10 E	10 E3GAL	1.14E-03	2161
0000	NEW/	Boiler TA-50 BI WITE	0.005 E	0.005 E6FT3S		1 500

Inventory Year (YYYY)	AIRS Point ID	Pollutant Code	CAS Number	Emission Numeric Value	Emission Unit Numerator	Calculation Method Code
2003	001	100414	100414		TY	08
2003	001	110543	110543		TY	08
2003	001	75070	75070		TY TY	08
2003	001	7664393 BE	7664393 7440417		TY	08
2003	001	BZ	71432		TY	08
2003	001	FORM	50000		TY	08
2003	001	HC81	1330207		TY	08
2003	001	NH3	7664417		TY	08
2003	001	PM10			TY	08
2003	001	PM25			TY	08
2003	001	PT			TY	08
2003	001	TOLU	108883	0	TY	08
2003	002	CO	630080		TY	08
2003	002	NH3	7664417		TY	08
2003		NO2	10102440		TY	08
2003		PM10			TY	08
2003		PM25			TY	08
2003		PT			TY	08
2003		SO2	7446095		TY	08
2003		VOC	10100110		TY	08
2003		NO2	10102440	1.92E-05	TY	08
2003		106467 109	106467	2.49E-07		08
2003		110543	110543	2.87E-02		08
2003		125	125	1.76E-05		08
2003		136	136	2.24E-05		08
2003		139	139	1.34E-06		08
2003		195	195	8.15E-06		08
2003		198	198	6.18E-06		08
2003		199	199	4.21E-06	TY	08
2003		226	226	3.36E-05	TY	08
2003	004	246		1.86E-06	TY	08
2003	004	253	253	6.70E-06	TY	08
2003	004	91203	91203	9.73E-06		08
2003		93		3.27E-06		08
2003		BZ	71432	3.35E-05		08
2003		CO	630080	1.34		08
2003		FORM	50000	1.26E-04		08
2003		NH3	7664417		TY	08
2003		NO2	10102440		TY	08
2003		PM10 PM25	-	0.12 0.12		08
2003		PT		0.12		08
2003		SO2	7446095	0.02		08
2003		TOLU	108883	5.43E-05		08
2003		VOC	100000	0.09		08
2003		CO	630080		TY	08
2003		NH3	7664417		TY	08
2003		NO2	10102440		TY	08
2003		PM10	The second second		TY	08
2003		PM25			TY	08
2003		PT		(TY	08
2003	005	VOC			TY	08
2003	A CONTRACTOR OF THE PARTY OF TH	BE	7440417	4.00E-07		08
2003		NH3	7664417		TY	08
2003		PM10		4.00E-07		08
2003		PM25		4.00E-07		08
2003		PT	744044	4.00E-07		08
2003		BE	7440417	7.00E-09	The state of the s	08
2003		NH3	7664417		TY	08
2003		PM10		7.00E-09		08
2003	007	PM25		7.00E-09	7 1 1	00

2003	007	PT		7.00E-09 TY	08
2003	008	BE	7440417	0 TY	08
2003	008	NH3	7664417	0 TY	08
2003	800	PM10	III DANKE WATER	0 TY	08
2003	008	PM25		0 TY	08
2003	008	PT		0 TY	08
2003	009	BE	7440417	0 TY	08
2003	009	NH3	7664417	0 TY	08
2003	009	PM10		0 TY	08
2003	009	PM25		0 TY	08
2003	009	PT		0 TY	08
2003	010	AL-PT	7429905	1.65E-06 TY	08
2003	010	BE	7440417	1.65E-06 TY	08
2003	010	NH3	7664417	0 TY	08
2003	010	PM10		1.65E-06 TY	08
2003	010	PM25		1.65E-06 TY	08
2003	011	AL-PT	7429905	1.65E-06 TY	08
2003	011	BE	7440417	1.65E-06 TY	08
2003	011	NH3	7664417	0 TY	08
2003	011	PM10		1.65E-06 TY	08
2003	011	PM25		1.65E-06 TY	08
2003	012	PM10		0 TY	00
2003	013	100414	100414	1.32E-03 TY	08
2003	013	106514	106514	1.63E-04 TY	08
2003	013	110543	110543	0 TY	08
2003	013	246		6.62E-05 TY	08
2003	013	75070	75070	1.93E-04 TY	08
2003	013	7664393	7664393	0 TY	08
2003	013	91203	91203	2.17E-05 TY	08
2003	013	BZ	71432	1.69E-04 TY	08
		00	000000	0 04 TV	00
2003	013	CO	630080	0.24 TY	08
2003 2003	013 013	FORM	50000	4.45E-04 TY	08
2003 2003 2003	013 013 013	FORM HC81	50000 1330207	4.45E-04 TY 1.63E-03 TY	08 08
2003 2003 2003 2003	013 013 013 013	FORM HC81 NH3	50000 1330207 7664417	4.45E-04 TY 1.63E-03 TY 0 TY	08 08 08
2003 2003 2003 2003 2003	013 013 013 013 013	FORM HC81 NH3 NO2	50000 1330207	4.45E-04 TY 1.63E-03 TY 0 TY 0.015 TY	08 08 08 08
2003 2003 2003 2003 2003 2003	013 013 013 013 013	FORM HC81 NH3 NO2 PM10	50000 1330207 7664417	4.45E-04 1.63E-03 TY 0.015 TY 0.03 TY	08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25	50000 1330207 7664417	4.45E-04 TY 1.63E-03 TY 0 TY 0.015 TY 0.03 TY 0.03 TY	08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT	50000 1330207 7664417 10102440	4.45E-04 TY 1.63E-03 TY 0 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY	08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2	50000 1330207 7664417 10102440 7446095	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY	08 08 08 08 08 08 08 04 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU	50000 1330207 7664417 10102440	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.04 TY 0.003 TY 0.003 TY 6.02E-04 TY	08 08 08 08 08 08 04 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	50000 1330207 7664417 10102440 7446095 108883	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.04 TY 0.003 TY 0.003 TY 6.02E-04 TY 0.005 TY	08 08 08 08 08 08 04 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414	50000 1330207 7664417 10102440 7446095 108883	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.04 TY 0.003 TY 0.003 TY 6.02E-04 TY 0.005 TY 0 TY	08 08 08 08 08 08 04 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543	50000 1330207 7664417 10102440 7446095 108883 100414 110543	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY 6.02E-04 TY 0.005 TY 0 TY	08 08 08 08 08 08 04 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070	7446095 100414 110543 75070	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY 6.02E-04 TY 0.005 TY 0 TY 0 TY	08 08 08 08 08 08 04 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393	7446095 100414 110543 75070 7664393	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.003 TY 0.005 TY 0.005 TY 0 TY 0 TY 0 TY	08 08 08 08 08 08 04 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ	7446095 100414 110543 75070 7664393 71432	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY 0.005 TY 0.005 TY 0 TY 0 TY 0 TY 0 TY 0 TY 0 TY	08 08 08 08 08 08 04 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO	7446095 100414 110543 75070 7664393 71432 630080	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 04 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ	7446095 100414 110543 75070 7664393 71432	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY 0.005 TY 0.005 TY 0 TY 0 TY 0 TY 0 TY 0 TY 0 TY	08 08 08 08 08 08 04 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM	7446095 100414 110543 75070 7664393 71432 630080 50000	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 04 08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 04 08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 04 08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 04 08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 04 08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT SO2	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY 0.005 TY 0.7 0 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440 7446095 108883	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	7446095 10000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440 7446095 108883	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.04 TY 0.003 TY 0.005 TY 0.7 0 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	7446095 100414 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440 7446095 108883	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	013 013 013 013 013 013 013 013 013 013	FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 110543 75070 7664393 BZ CO FORM HC81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	50000 1330207 7664417 10102440 7446095 108883 100414 110543 75070 7664393 71432 630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136	4.45E-04 TY 1.63E-03 TY 0.015 TY 0.03 TY 0.03 TY 0.003 TY 0.005 TY 0.005 TY 0	08 08 08 08 08 08 08 08 08 08

2003	015	199	199	1.37E-06 TY	08
2003	015	226	226	1.10E-05 TY	08
2003	015	246	246	4.62E-07 TY	08
2003	015	253	253	1.26E-07 TY	08
2003	015	75070	75070	0 TY	08
2003	015	7664393	7664393	0 TY	08
2003	015	91203	91203	3.21E-06 TY	08
2003	015	93	93	1.05E-06 TY	08
2003	015	BZ	71432	1.10E-05 TY	08
2003	015	CO	630080	0.44 TY	08
2003	015	FORM	50000	3.94E-05 TY	08
2003	015	HC81	1330207	0 TY	08
2003	015	NH3	7664417	0 TY	08
2003	015	NO2	10102440	0.53 TY	08
2003	015	PM10		0.04 TY	08
2003	015	PM25		0.04 TY	08
2003	015	PT		0.04 TY	08
2003	015	SO2	7446095	0.003 TY	08
2003	015	TOLU	108883	1.79E-05 TY	08
2003	015	VOC		0.03 TY	08
2003	016	100414	100414	0 TY	08
2003	016	106467	106467	6.31E-06 TY	08
2003	016	109	109	6.31E-08 TY	08
2003	016	110543	110543	9.46E-03 TY	08
2003	016	125	125	5.78E-06 TY	08
2003	016	136	136	7.36E-06 TY	08
2003	016	139	139	4.41E-07 TY	08
2003	016	195	195	2.63E-06 TY	08
2003	016	198	198	2.00E-06 TY	08
2003	016	199	199	1.37E-06 TY	08
2003	016	226	226	1.10E-05 TY	08
2003	016	246	246	4.62E-07 TY	08
2003	016	253	253	1.26E-07 TY	08
2003	016	75070	75070	0 TY	08
2003	016	7664393 91203	7664393 91203	3.21E-06 TY	08
2003	016	93	93	1.05E-06 TY	08
. 11.1(.1,2)		93			
2003		R7	71/132		(1)8
2003	016	BZ	71432	1.10E-05 TY	08
2003 2003	016 016	CO	630080	0.44 TY	08
2003 2003 2003	016 016 016	CO FORM	630080 50000	0.44 TY 3.94E-05 TY	08 08
2003 2003 2003 2003	016 016 016 016	CO FORM HC81	630080 50000 1330207	0.44 TY 3.94E-05 TY	08 08 08
2003 2003 2003 2003 2003	016 016 016 016 016	CO FORM	630080 50000	0.44 TY 3.94E-05 TY	08 08
2003 2003 2003 2003 2003 2003	016 016 016 016 016 016	CO FORM HC81 NH3	630080 50000 1330207 7664417	0.44 TY 3.94E-05 TY 0 TY 0 TY	08 08 08 08
2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016	CO FORM HC81 NH3 NO2 PM10	630080 50000 1330207 7664417	0.44 TY 3.94E-05 TY 0 TY 0.53 TY	08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016	CO FORM HC81 NH3 NO2	630080 50000 1330207 7664417	0.44 TY 3.94E-05 TY 0 TY 0.53 TY 0.04 TY	08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25	630080 50000 1330207 7664417	0.44 TY 3.94E-05 TY 0 TY 0.53 TY 0.04 TY 0.04 TY	08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT	630080 50000 1330207 7664417 10102440	0.44 TY 3.94E-05 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.04 TY	08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2	630080 50000 1330207 7664417 10102440	0.44 TY 3.94E-05 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.04 TY 0.04 TY 0.003 TY	08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU	630080 50000 1330207 7664417 10102440	0.44 TY 3.94E-05 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY	08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	630080 50000 1330207 7664417 10102440 7446095 108883	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY	08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC	630080 50000 1330207 7664417 10102440 7446095 108883	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467	630080 50000 1330207 7664417 10102440 7446095 108883	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 0.03 TY 0.179E-05 TY 0.179E-05 TY 0.179E-05 TY 0.179E-06 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 0.03 TY 0.179E-05 TY 0.179E-05 TY 0.179E-05 TY 0.179E-05 TY 0.179E-05 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 0.03 TY 0.844E-06 TY 8.44E-08 TY 1.27E-02 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 0.03 TY 1.79E-05 TY 0.12 TY 8.44E-06 TY 8.44E-08 TY 1.27E-02 TY 7.73E-06 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139 195	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 0.03 TY 1.79E-05 TY 0.174 8.44E-06 TY 8.44E-08 TY 1.27E-02 TY 7.73E-06 TY 9.84E-06 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136 139	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 0.03 TY 1.79E-06 TY 8.44E-06 TY 8.44E-06 TY 7.73E-06 TY 9.84E-06 TY 5.91E-07 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139 195	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136 139 195	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 0.03 TY 1.27E-02 TY 7.73E-06 TY 9.84E-06 TY 9.84E-06 TY 5.91E-07 TY 3.52E-06 TY 1.83E-06 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139 195 198	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136 139 195 198	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 0.03 TY 1.27E-02 TY 7.73E-06 TY 9.84E-06 TY 9.84E-06 TY 5.91E-07 TY 3.52E-06 TY 2.67E-06 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139 195 198 199 226 246	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136 139 195 198 199 226 246	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.004 TY 0.003 TY 1.79E-05 TY 0.03 TY 8.44E-06 TY 8.44E-08 TY 1.27E-02 TY 7.73E-06 TY 9.84E-06 TY 9.84E-06 TY 1.591E-07 TY 3.52E-06 TY 1.83E-06 TY 1.48E-05 TY 6.19E-07 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139 195 198 199 226 246 253	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136 139 195 198 199 226 246 253	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.004 TY 0.003 TY 1.79E-05 TY 0.03 TY 8.44E-06 TY 8.44E-08 TY 1.27E-02 TY 7.73E-06 TY 9.84E-06 TY 9.84E-06 TY 1.591E-07 TY 1.83E-06 TY 1.48E-05 TY 6.19E-07 TY 1.69E-07 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139 195 198 199 226 246 253 75070	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136 139 195 198 199 226 246 253 75070	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 8.44E-06 TY 8.44E-08 TY 1.27E-02 TY 7.73E-06 TY 9.84E-06 TY 9.84E-06 TY 1.83E-06 TY 1.83E-06 TY 1.48E-05 TY 1.69E-07 TY 1.69E-07 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139 195 198 199 226 246 253	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136 139 195 198 199 226 246 253 75070 7664393	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 0.03 TY 1.79E-05 TY 8.44E-06 TY 8.44E-08 TY 1.27E-02 TY 7.73E-06 TY 9.84E-06 TY 9.84E-06 TY 1.83E-06 TY 1.83E-06 TY 1.48E-05 TY 6.19E-07 TY 1.69E-07 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	016 016 016 016 016 016 016 016 016 016	CO FORM HG81 NH3 NO2 PM10 PM25 PT SO2 TOLU VOC 100414 106467 109 110543 125 136 139 195 198 199 226 246 253 75070	630080 50000 1330207 7664417 10102440 7446095 108883 100414 106467 109 110543 125 136 139 195 198 199 226 246 253 75070	0.44 TY 3.94E-05 TY 0 TY 0 TY 0.53 TY 0.04 TY 0.04 TY 0.003 TY 1.79E-05 TY 0.03 TY 8.44E-06 TY 8.44E-08 TY 1.27E-02 TY 7.73E-06 TY 9.84E-06 TY 9.84E-06 TY 1.83E-06 TY 1.83E-06 TY 1.48E-05 TY 1.69E-07 TY 1.69E-07 TY	08 08 08 08 08 08 08 08 08 08

2003	017	BZ	71432	1.48E-05 TY	08
2003	017	CO	630080	0.59 TY	08
2003	017	FORM	50000	5.27E-05 TY	08
2003	017	HC81	1330207	0 TY	08
2003	017	NH3	7664417	O TY	08
2003	017	NO2	10102440	0.70 TY	08
2003	017	PM10		0.05 TY	08
2003	017	PM25		0.05 TY	08
2003	017	PT		0.05 TY	08
2003	017	SO2	7446095	0.004 TY	08
2003	017	TOLU	108883	2.39E-05 TY	08
2003	017	VOC		0.04 TY	08
2003	018	100414	100414	0 TY	08
2003	018	106467	106467	8.41E-06 TY	08
2003	018	109	109	8.41E-08 TY	08
2003	018	110543	110543	1.26E-02 TY	08
2003	018	125	125	7.71E-06 TY	08
2003	018	136	136	9.81E-06 TY	08
2003	018	139	139	5.89E-07 TY	08
2003	018	195	195	3.50E-06 TY	08
2003	018	198	198	2.66E-06 TY	08
2003	018	199	199	1.82E-06 TY	08
2003	018	226	226	1.47E-05 TY	08
2003	018	246	246	6.17E-07 TY	08
2003	018	253	253	1.68E-07 TY	08
2003	018	75070	75070	0 TY	08
2003	018	7664393	7664393	O TY	08
2003	018	91203	91203	4.27E-06 TY	08
2003	018	93	93	1.40E-06 TY	08
2003	018	BZ	71432	1.47E-05 TY	08
2003	018	CO	630080	0.59 TY	08
2003	018	FORM	50000	5.25E-05 TY	08
2003	018	HC81	1330207	0 TY	08
ALC: NO.					
2003	018	NH3	7664417	0 TY	08
2003	018	NO2	7664417 10102440	0.70 TY	08
2003 2003	018 018	NO2 PM10		0.70 TY 0.053 TY	08 08
2003 2003 2003	018 018 018	NO2 PM10 PM25		0.70 TY 0.053 TY 0.053 TY	08 08 08
2003 2003 2003 2003	018 018 018 018	NO2 PM10 PM25 PT	10102440	0.70 TY 0.053 TY 0.053 TY 0.053 TY	08 08 08 08
2003 2003 2003 2003 2003	018 018 018 018 018	NO2 PM10 PM25 PT SO2	10102440 7446095	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY	08 08 08 08 08
2003 2003 2003 2003 2003 2003	018 018 018 018 018 018	NO2 PM10 PM25 PT SO2 TOLU	10102440	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY	08 08 08 08 08
2003 2003 2003 2003 2003	018 018 018 018 018 018 018	NO2 PM10 PM25 PT SO2	10102440 7446095	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY	08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 018 018	NO2 PM10 PM25 PT SO2 TOLU VOC 106467	10102440 7446095	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY	08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 018 019	NO2 PM10 PM25 PT SO2 TOLU VOC	7446095 108883 106467 109	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY	08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 018 018	NO2 PM10 PM25 PT SO2 TOLU VOC 106467	7446095 108883	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY	08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 018 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109	7446095 108883 106467 109	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY	08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 018 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136	7446095 108883 106467 109 110543 125 136	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY	08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 018 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543	7446095 108883 106467 109 110543 125	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136	7446095 108883 106467 109 110543 125 136 139 195	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.004 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY	08 08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139	7446095 108883 106467 109 110543 125 136 139 195 198	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY 2.66E-06 TY	08 08 08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139	7446095 108883 106467 109 110543 125 136 139 195	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.004 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195	7446095 108883 106467 109 110543 125 136 139 195 198 199 226	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY 1.82E-06 TY 1.47E-05 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198	7446095 108883 106467 109 110543 125 136 139 195 198 199	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY 2.66E-06 TY 1.82E-06 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198	7446095 108883 106467 109 110543 125 136 139 195 198 199 226	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY 1.82E-06 TY 1.47E-05 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY 1.82E-06 TY 1.47E-05 TY 6.17E-07 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 9.81E-06 TY 2.66E-06 TY 1.82E-06 TY 1.47E-05 TY 6.17E-07 TY 1.68E-07 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY 1.82E-06 TY 1.47E-05 TY 6.17E-07 TY 1.68E-07 TY 4.27E-06 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY 1.82E-06 TY 1.47E-05 TY 6.17E-07 TY 1.68E-07 TY 4.27E-06 TY 1.40E-06 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 BZ CO FORM	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 71432	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 5.89E-07 TY 3.50E-06 TY 1.82E-06 TY 1.47E-05 TY 6.17E-07 TY 1.68E-07 TY 4.27E-06 TY 1.40E-06 TY 1.47E-05 TY 0.59 TY 5.25E-05 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 BZ CO	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 71432 630080	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 2.66E-06 TY 1.82E-06 TY 1.47E-05 TY 1.68E-07 TY 1.68E-07 TY 1.40E-06 TY 1.47E-05 TY 0.59 TY 5.25E-05 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 BZ CO FORM	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 71432 630080 50000	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-06 TY 7.71E-06 TY 9.81E-06 TY 2.66E-06 TY 1.82E-06 TY 1.47E-05 TY 4.27E-06 TY 1.40E-06 TY 1.47E-05 TY 1.47E-05 TY 0.59 TY 5.25E-05 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 BZ CO FORM NH3	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 71432 630080 50000 7664417	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-08 TY 1.26E-02 TY 7.71E-06 TY 9.81E-06 TY 2.66E-06 TY 1.82E-06 TY 1.47E-05 TY 1.68E-07 TY 1.68E-07 TY 1.40E-06 TY 1.47E-05 TY 0.59 TY 5.25E-05 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 BZ CO FORM NH3 NO2	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 71432 630080 50000 7664417	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-06 TY 7.71E-06 TY 9.81E-06 TY 2.66E-06 TY 1.82E-06 TY 1.47E-05 TY 4.27E-06 TY 1.40E-06 TY 1.47E-05 TY 1.47E-05 TY 0.59 TY 5.25E-05 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 BZ CO FORM NH3 NO2 PM10	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 71432 630080 50000 7664417	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-06 TY 7.71E-06 TY 9.81E-06 TY 2.66E-06 TY 1.82E-06 TY 1.47E-05 TY 4.27E-06 TY 1.40E-06 TY 1.47E-05 TY 1.47E-05 TY 0.59 TY 5.25E-05 TY 0.70 TY 0.053 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 BZ CO FORM NH3 NO2 PM10 PM25	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 71432 630080 50000 7664417	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-06 TY 7.71E-06 TY 9.81E-06 TY 2.66E-06 TY 1.82E-06 TY 1.47E-05 TY 4.27E-06 TY 1.40E-06 TY 1.47E-05 TY 1.47E-05 TY 0.59 TY 5.25E-05 TY 0.70 TY 0.053 TY 0.053 TY	08 08 08 08 08 08 08 08 08 08
2003 2003 2003 2003 2003 2003 2003 2003	018 018 018 018 018 018 019 019 019 019 019 019 019 019 019 019	NO2 PM10 PM25 PT SO2 TOLU VOC 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 BZ CO FORM NH3 NO2 PM10 PM25 PT	7446095 108883 106467 109 110543 125 136 139 195 198 199 226 246 253 91203 93 71432 630080 50000 7664417 10102440	0.70 TY 0.053 TY 0.053 TY 0.053 TY 0.053 TY 0.004 TY 2.38E-05 TY 0.04 TY 8.41E-06 TY 8.41E-06 TY 7.71E-06 TY 9.81E-06 TY 2.66E-06 TY 1.82E-06 TY 1.47E-05 TY 1.68E-07 TY 1.68E-07 TY 1.47E-05 TY 1.47E-05 TY 1.47E-05 TY 0.59 TY 5.25E-05 TY 0.70 TY 0.053 TY 0.053 TY 0.053 TY	08 08 08 08 08 08 08 08 08 08

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2003	020	106467	106467	6.31E-06 TY	08
2003	020	109	109	6.31E-08 TY	08
2003	020	110543	110543	9.46E-03 TY	08
2003	020	125	125	5.78E-06 TY	08
2003	020	136	136	7.36E-06 TY	08
2003	020	139	139	4.41E-07 TY	08
				2.63E-06 TY	08
2003	020	195	195		
2003	020	198	198	2.00E-06 TY	08
2003	020	199	199	1.37E-06 TY	08
2003	020	226	226	1.10E-05 TY	08
2003	020	246	246	4.62E-07 TY	08
2003	020	253	253	1.26E-07 TY	08
					08
2003	020	91203	91203	3.21E-06 TY	
2003	020	93	93	1.05E-06 TY	08
2003	020	BZ	71432	1.10E-05 TY	08
2003	020	CO	630080	0.44 TY	08
2003	020	FORM	50000	3.94E-05 TY	08
2003	020	NH3	7664417	0 TY	08
2003	020	NO2	10102440	0.525 TY	08
2003	020	PM10	10102110	0.04 TY	08
100000000000000000000000000000000000000				0.04 TY	08
2003	020	PM25			
2003	020	PT		0.04 TY	08
2003	020	SO2	7446095	0.003 TY	08
2003	020	TOLU	108883	1.79E-05 TY	08
2003	020	VOC		0.03 TY	08
2003	021	106467	106467	6.31E-06 TY	08
				6.31E-08 TY	08
2003	021	109	109		
2003	021	110543	110543	9.46E-03 TY	08
2003	021	125	125	5.78E-06 TY	08
2003	021	136	136	7.36E-06 TY	08
2003	021	139	139	4.41E-07 TY	08
2003	021	195	195	2.63E-06 TY	08
					08
2003	021	198	198	2.00E-06 TY	
2003	021	199	199	1.37E-06 TY	08
2003	021	226	226	1.10E-05 TY	08
2003	021	246	246	4.62E-07 TY	08
2003	021	253	253	1.26E-07 TY	08
2003	021	91203	91203	3.21E-06 TY	08
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2003	021	93	93	1.05E-06 TY	08
2003	021	BZ	71432	1.10E-05 TY	08
2003	021	CO	630080	0.44 TY	08
2003	021	FORM	50000	3.94E-05 TY	08
2003	021	NH3	7664417	0 TY	08
2003	021	NO2	10102440	0.525 TY	08
			10102440		08
2003	021	PM10		0.04 TY	
2003	021	PM25		0.04 TY	08
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2003	001	SO2	7446095	0.003 TY	08
2003	021				0.0
		TOLU	108883	1.79E-05 TY	08
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2003	021 021 022	VOC	630080	0.03 TY 0 TY 0 TY 0 TY	08 08 08
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2003	024	106467	106467	1.13E-05 TY	08
2003	024	109	109	1.13E-07 TY	08
2003	024	110543	110543	1.70E-02 TY	08
2003	024	125	125	1.04E-05 TY	08
2003	024	136	136	1.32E-05 TY	08
2003	024	139	139	7.92E-07 TY	08
2003	024	195	195	4.72E-06 TY	08
					08
2003	024	198	198	3.58E-06 TY	
2003	024	199	199	2.45E-06 TY	08
2003	024	226	226	1.98E-05 TY	08
2003	024	246	246	8.30E-07 TY	08
2003	024	253	253	2.26E-07 TY	08
2003	024	91203	91203	5.75E-06 TY	08
2003	024	93	93	1.89E-06 TY	08
2003	024	BZ	71432	1.98E-05 TY	08
2003	024	CO	630080	0.35 TY	07
2003	024	FORM	50000	7.07E-05 TY	08
2003	024	NH3	7664417	0 TY	08
2003	024	NO2	10102440	0.35 TY	07
2003	024	PM10		0.07 TY	08
2003	024	PM25		0.07 TY	08
2003	024	PT		0.07 TY	08
2003	024	SO2	7446095	0.006 TY	08
2003	024	TOLU	108883	3.21E-05 TY	08
2003	024	VOC		0.05 TY	08
2003	025	106467	106467	0.03 TY	08
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2003	025	110543	110543	0 TY	08
2003	025	125	125	0 TY	08
2003	025	136	136	0 TY	08
2003	025	139	139	0 TY	08
2003	025	195	195	0 TY	08
2003	025	198	198	0 TY	08
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2003	025	199	199	0 TY	08
2003	025	226	226	0 TY	08
2003	025	246	246	0 TY	08
2003	025	253	253	0 TY	08
2003	025	91203	91203	0 TY	08
2003	025	93	93	0 TY	08
2003	025	BZ	71432	0 TY	08
2003	025	CO	630080	0 TY	07
			100000000000000000000000000000000000000		
2003	025	FORM	50000	0 TY	08
2003	025	NH3	7664417	0 TY	08
2003	025	NO2	10102440	0 TY	07
2003	025	PM10		0 TY	08
2003	025	PM25		0 TY	08
2003	025	PT		0 TY	08
2003	025	SO2	7446095	0 TY	08
2003	025	TOLU	108883	0 TY	08
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2003	025	VOC	000000	0 TY	08
2003	026	CO	630080	0 TY	08
2003	026	NH3	7664417	0 TY	08
2003	026	NO2	10102440	0 TY	08
2003	026	PM10		0 TY	08
2003	026	PM25		0 TY	08
2003	026	PT		0 TY	08
2003	026	SO2	7446095	0 TY	08
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2003	026	VOC	7001117	0 TY	
2003	027	NH3	7664417	0 TY	08
2003	027	PM10		1.39E-03 TY	11
2003	027	PM25		1.39E-03 TY	11
2003	027	PT		1.39E-03 TY	11
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2003 031 100027 100027 0 TY 03 2003 031 100414 100414 0 TY 03 2003 031 100425 100425 2.35E-03 TY 03 2003 031 100447 100447 0 TY 03 2003 031 100447 100447 0 TY 03 2003 031 10688 101688 0 TY 03 2003 031 106423 106423 1.62E-03 TY 03 2003 031 106425 106425 1.62E-03 TY 03 2003 031 106425 106425 0 TY 03 2003 031 10645 106425 0 TY 03 2003 031 106503 106503 0 TY 03 2003 031 106514 106514 2.66E-05 TY 03 2003 031 106887 106887 0 TY 03 2003 031 106898 106898 1.10E-04 TY 03 2003 031 106994 106990 0 TY 03 2003 031 106994 106990 0 TY 03 2003 031 107028 107028 0 TY 03 2003 031 107020 107020 2.66E-04 TY 03 2003 031 107031 107131 6.21E-04 TY 03 2003 031 107032 107302 2.66E-05 TY 03 2003 031 108054 108054 0 TY 03 2003 031 108054 108054 0 TY 03 2003 031 108054 108054 0 TY 03 2003 031 108097 108907 8.65E-05 TY 03 2003 031 108084 108054 0 TY 03 2003 031 108097 108907 8.65E-03 TY 03 2003 031 108907 108907 8.65E-03 TY 03 2003 031 108965 108952 2.88E-03 TY 03 2003 031 108967 108907 8.65E-03 TY 03 2003 031 108097 108907 8.65E-03 TY 03 2003 031 110448 1120714 0 TY 03 2003 031 120821 120821 0 TY 03 2003 031 12081 120821 0 TY 03 2003 031 123319 123319 1.15E-02 TY 03 2003 031 123319 123319 1.15E-02 TY 03 2003 031 123319 123319 1.15E-02 TY 03 2003 031 1448 121448 5.43E-02 TY 03 2003 031 123816 12386 0 TY 03 2003 031 123816 12386 0 TY 03 2003 031 123816 123816 0 TY 03 2003 031 123816 123816 0 TY 03 2003 031 12448 121448 5.43E-03 TY 03 2003 031 12448 121448 5.43E-03 TY 03 2003 031 120809 120809 0 TY 03 2003 031 123319 123319 1.15E-02 TY 03 2003 031 123319 123319 1.15E-02 TY 03 2003 031 12448 127144 165E-02 TY 03 2003 031 125667 12667 0 TY 03 2003 031 12667 12667 0 TY 03 2003 031 12667 12667 0 TY 03 2003 031 1444 144 1.65E-02 TY 03 2003 031 1444 144 1.65E-02 TY 03 2003 031 198 199 199 1.15E-02 TY 03	2003		PM25			
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2003	031	VOC	400407	11.2 TY	03
2003	032	106467	106467	1.84E-04 TY	08
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2003	032	136	136	2.17E-04 TY	08
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2003	032	195	195	8.39E-05 TY	08
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2003	033	110543	110543	2.43E-06 TY	08
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2003	033	136	136	8.67E-06 TY	08
2003	033	139	139	3.78E-07 TY	08
2003	033	195	195	9.37E-06 TY	08
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2003	033	BZ	71432	9.44E-06 TY	08
		CO	630080	0.21 TY	08
2003	033	00	000000	0.2111	00
2003	033	FORM	50000	3.11E-04 TY	08
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2003 2003 2003 2003 2003 2003 2003 2003	033 033 033 033 033 033 033	PORM NH3 NO2 PM10 PM25 PT SO2 TOLU	50000 7664417 10102440 7446095	3.11E-04 TY 0 TY 0.31 TY 0.05 TY 0.04 TY 0.05 TY 0.05 TY	08 08 04 08 08 08 08 08
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2003	034	195	195	6.76E-05 TY	08
2003	034	198	198	5.12E-05 TY	08
2003	034	199	199	3.49E-05 TY	08
2003	034	226	226	2.78E-04 TY	08
2003	034	246	7446095	1.54E-05 TY	08
2003	034	253	253	5.53E-06 TY	08
2003	034	91203	91203	8.07E-05 TY	08
2003	034	93	93	2.71E-05 TY	08
2003			71432		
	034	BZ	MARCHES .	2.78E-04 TY	08
2003	034	CO	630080	5.3 TY	08
2003	034	FORM	50000	1.05E-03 TY	08
2003	034	NH3	7664417	0 TY	08
2003		NO2	10102440	7.69 TY	04
2003	034	PM10		1.0 TY	08
2003	034	PM25		1.0 TY	08
2003	034	PT		1.01 TY	08
2003	034	SO2	7446095	0.09 TY	08
2003	034	TOLU	108883	4.50E-04 TY	08
2003	034	VOC		0.73 TY	08
2003	035	VOC		0.007 TY	08
2003	036	VOC		0.033 TY	08
2003	037	106467	106467	1.56E-05 TY	08
2003	037	109	109	1.56E-07 TY	08
2003	037	110543	110543	2.33E-02 TY	08
2003	037	125	125	1.43E-05 TY	08
2003	037	136	136	1.81E-05 TY	08
		- Colombia			
2003	037	139	139	1.09E-06 TY	08
2003	037	195	195	6.48E-06 TY	08
2003	037	198	198	4.92E-06 TY	08
2003	037	199	199	3.37E-06 TY	08
2003	037	226	226	2.72E-05 TY	08
2003	037	246	246	1.14E-06 TY	08
2003	037	253	253	3.11E-07 TY	08
2003	037	91203	91203	7.90E-06 TY	08
2003	037	93	93	2.59E-06 TY	08
2003	037	BZ	71432	2.72E-05 TY	08
2003	037	CO	630080	0.5 TY	07
2003	037	FORM	50000	9.72E-05 TY	
2003	037	NH3	7664417	9.72E-03 TY	08
2003	037	NO2	10102440	1.79 TY	04
2003	037	PM10	10102440	0.184 TY	
2003		PM25			07
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2003	037	PT		0.184 TY	07
2003	037	SO2	7446095	0.008 TY	08
2003	037	TOLU	108883	4.41E-05 TY	08
2003	037	VOC		0.08 TY	07
2003	038	106467	106467	8.64E-07 TY	08
2003	038	109	109	8.64E-09 TY	08
2003	038	110543	110543	1.30E-03 TY	08
2003	038	125	125	7.92E-07 TY	08
2003	038	136	136	1.01E-06 TY	08
2003	038	139	139	6.05E-08 TY	08
2003	038	195	195	3.60E-07 TY	08
2003	038	198			
			198	2.74E-07 TY	08
2003	038	199	199	1.87E-07 TY	08
2003	038	226	226	1.51E-06 TY	08
2003	038	246	246	6.34E-08 TY	08
2003	038	253	253	1.73E-08 TY	08
2003	038	91203	91203	4.39E-07 TY	08
2003	038	93	93	1.44E-07 TY	08
2003	038	BZ	71432	1.51E-06 TY	08
2003	038	CO	630080	0.03 TY	07
2003	038	FORM	50000	5.40E-06 TY	08
2003	038	NH3	7664417	0 TY	07
2003	038	NO2	10102440	0.1 TY	04
2003	038	PM10	10102-740		07
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2003						
2003				117817		
2003	2003	039	123386	123386	2.36E-03 TY	08
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2003 040 106990 106990 4.02E-08 TY 08 2003 040 107028 107028 4.52E-03 TY 08	2003	040	100414	100414	3.50E-05 TY	08
2003 040 106990 106990 4.02E-08 TY 08 2003 040 107028 107028 4.52E-03 TY 08	2003	040	100425	100425	2.15E-03 TY	08
2003 040 107028 107028 4.52E-03 TY 08			The State Charles State Control of the Control of t			
2000 040 107002 107002 3.28E-03 17 08						
	2003	040	10/002	107002	5.20E-05 1 T	00

					200000000000000000000000000000000000000	
	2003	040	108907	108907	3.73E-05 TY	08
	2003	040	108952	108952	5.76E-05 TY	08
	2003	040	109	109	1.24E-06 TY	08
	2003	040	117817	117817	5.31E-08 TY	08
	2003	040	123386	123386	6.89E-05 TY	08
		040	125	125	4.63E-06 TY	08
	2003	1.00				08
	2003	040	127184	127184	4.29E-05 TY	
	2003	040	136	136	2.37E-05 TY	08
	2003	040	139	139	7.34E-06 TY	08
	2003	040	1746016	1746016	9.71E-12 TY	08
	2003	040	18540299	18540299	3.95E-06 TY	08
	2003	040	195	195	5.42E-05 TY	08
	2003	040	198	198	1.81E-03 TY	08
					3.95E-06 TY	08
	2003	040	199	199		
	2003	040	226	226	3.73E-05 TY	08
	2003	040	246	246	3.16E-05 TY	08
	2003	040	253	253	3.16E-06 TY	08
	2003	040	51285	51285	2.03E-07 TY	08
	2003	040	56235	56235	5.08E-05 TY	08
	2003	040	624	624	1.02E-10 TY	08
	2003	040	67663	67663	3.16E-05 TY	08
			71556	71556	3.50E-05 TY	08
	2003	040				
	2003	040	74839	74839	1.69E-05 TY	08
	2003	040	74873	74873	2.60E-05 TY	08
	2003	040	75014	75014	2.03E-05 TY	08
	2003	040	75070	75070	9.38E-04 TY	08
	2003	040	75092	75092	3.28E-04 TY	08
	2003	040	7723140	7723140	3.05E-05 TY	08
_	2003	040	78875	78875	3.73E-05 TY	08
	and the same of th				6.10E-06 TY	08
	2003	040	78933	78933		
	2003	040	79016	79016	3.39E-05 TY	08
	2003	040	87865	87865	5.76E-08 TY	08
	2003	040	88062	88062	2.48E-08 TY	08
	2003	040	92	92	8.92E-06 TY	08
	2003	040	93	93	2.48E-05 TY	08
	2003	040	95476	95476	2.85E-05 TY	08
	2003	040	98862	98862	3.61E-09 TY	08
_					4.74E-03 TY	08
	2003	040	BZ	71432		
	2003	040	CL	7782505	8.92E-04 TY	08
	2003	040	CO	630080	0.2 TY	11
	2003	040	FORM	50000	4.97E-03 TY	08
	2003	040	HCL	7647010	2.15E-02 TY	08
	2003	040	NO2	10102440	0.3 TY	08
	2003	040	PM10		0.2 TY	08
	2003	040	PM25		0.2 TY	08
	2003	040	PT		0.3 TY	09
			SO2	7446095	0.01 TY	08
	2003	040				
	2003	040	TOLU	108883	1.04E-03 TY	08
	2003	040	VOC		0.5 TY	08
	2003	041	100027	100027	4.86E-06 TY	08
	2003	041	100414	100414	1.37E-03 TY	08
	2003	041	100425	100425	8.40E-02 TY	08
	2003	041	106990	106990	1.27E-06 TY	08
	2003	041	107028	107028	1.77E-01 TY	08
	2003	041	107062	107062	1.28E-03 TY	08
					1.46E-03 TY	08
	2003	041	108907	108907		
	2003	041	108952	108952	2.26E-03 TY	08
	2003	041	109	109	4.86E-05 TY	08
	2003	041	117817	117817	2.08E-06 TY	08
	2003	041	123386	123386	2.70E-03 TY	08
	2003	041	125	125	1.81E-04 TY	08
	2003	041	127184	127184	1.68E-03 TY	08
	2003	041	136	136	9.29E-04 TY	08
						08
	2003	041	139	139	2.87E-04 TY	
	2003	041	1746016 18540299	1746016 18540299	3.80E-10 TY 1.55E-04 TY	08

2225	0.44	105	405	0.105.00.77/	00
2003	041	195	195	2.12E-03 TY	08
2003	041	198	198	7.08E-02 TY	08
2003	041	199	199	1.55E-04 TY	08
2003	041	226	226	1.46E-03 TY	08
2003	041	246	246	1.23E-03 TY	08
2003	041	253	253	1.24E-04 TY	08
2003	041	51285	51285	7.96E-06 TY	08
2003	041	56235	56235	1.99E-03 TY	08
2003	041	624	624	3.98E-09 TY	08
2003	041	67663	67663	1,24E-03 TY	08
2003	041	71556	71556	1.37E-03 TY	08
2003	041	74839	74839	6.63E-04 TY	08
					08
2003	041	74873	74873	1.02E-03 TY	
2003	041	75014	75014	7.96E-04 TY	08
2003	041	75070	75070	3.67E-02 TY	08
2003	041	75092	75092	1.28E-02 TY	08
2003	041	7723140	7723140	1.19E-03 TY	08
2003	041	78875	78875	1.46E-03 TY	08
2003	041	78933	78933	2.39E-04 TY	08
2003	041	79016	79016	1.33E-03 TY	08
2003	041	87865	87865	2.26E-06 TY	08
2003	041	88062	88062	9.73E-07 TY	08
2003	041	92	92	3.49E-04 TY	08
2003	041	93	93	9.73E-04 TY	08
2003	041	95476	95476	1.11E-03 TY	08
2003	041	98862	98862	1,42E-07 TY	08
2003	041	BZ	71432	1.86E-01 TY	08
2003	041	CL	7782505	3.49E-02 TY	08
2003	041	CO	630080	7.7 TY	11
2003	041	FORM	50000	1.95E-01 TY	08
2003	041	HCL	7647010	8.40E-01 TY	08
	-	NO2	The state of the s	13.4 TY	08
2003	041		10102440		
2003	041	PM10		7.6 TY	08
2003	041	PM25		7.1 TY	08
2003	041	PT	127772222	10.1 TY	09
2003	041	SO2	7446095	0.7 TY	08
2003	041	TOLU	108883	4.07E-02 TY	08
2003	041	VOC		19.0 TY	08
2003	042	PM10		0.018 TY	08
2003	042	PM25		0.017 TY	08
2003	042	PT		0.038 TY	08
2003	043	VOC		0.007 TY	08
2003	NEW	106467	106467	3.04E-09 TY	08
2003	NEW	109	109	3.04E-11 TY	08
2003	NEW	110543	110543	4.55E-06 TY	08
2003	NEW	125	7446095	2.78E-09 TY	08
2003	NEW	136	136	3.54E-09 TY	08
2003	NEW	139	139	2.13E-08 TY	08
2003	NEW	195	195	1.27E-09 TY	08
2003	NEW	198	198	9.61E-10 TY	08
2003	NEW	199	199	6.58E-10 TY	08
		226	226	5.31E-09 TY	08
2003	NEW	246			08
2003	NEW		246	2.23E-10 TY	
2003	NEW	253	253	6.07E-11 TY	08
2003	NEW	91203	91203	1.54E-09 TY	08
2003	NEW	93	93	5.06E-10 TY	08
2003	NEW	BZ	71432	5.31E-09 TY	08
2003	NEW	CO	630080	2.13E-04 TY	08
2003	NEW	FORM	50000	1.90E-08 TY	08
2003	NEW	NO2	10102440	2.53E-04 TY	08
2003	NEW	PM10		1.92E-05 TY	08
2003	NEW	PM25		1.92E-05 TY	08
2003	NEW	PT		1.92E-05 TY	08
2003	NEW	SO2	7446095	1.52E-06 TY	08
2003	NEW	TOLU	108883	8.60E-09 TY	08
2003	NEW	VOC		1.39E-05 TY	08

	Description	UICH EEEICIENICV BABTICI II ATE AIB EII TEB	חומח-בידוטובווערן רארווטטראוב אווין ובוביו	HIGH-EFFICIENCY PARTICULATE AIR FILLER	HIGH-EFFICIENCY PARTICULATE AIR FILTER	CENTRIFUGAL COLLECTOR (CYCLONE) -	CENTRIFUGAL COLLECTOR (CYCLONE) -	LOW NOX BURNERS	LOW NOX BURNERS	WATER SPRAYS	WATER SPRAYS	SINGLE CYCLONE	SINGLE CYCLONE	FLUE GAS RECIRCULATION	FLUE GAS RECIRCULATION	FLUE GAS RECIRCULATION	SINGLE CYCLONE	SINGLE CYCLONE	SINGLE CYCLONE					
	Secondary Device Type	204	101	101	101	101	101		101	101	005	005					100	100		127				
	Primary Device Type	Tevice 1 ype	101	101	101	101	101	101	101	101	800	800	205	205	153	153	075	075	026	026	026	075	075	075
Primary PCT	Control	9	99.9	6.66	99.95	76.66	96.66	99.95	99.95	99.95	86	93	63	63	92	92	06	06	64	64	64	65	45	98
	Pollutant	appool Lu	BE	BE	BE	BE	BE	AL-PT	BE	BE	PM10	PT	NO2	NO2	PM10	PT	PM10	PT	NO2	NO2	NO2	PM10	PM25	PT
	AIRS Stack	ח	001	900	007	800	600	010	010	011	013	013	024	025	026	026	027	027	032	033	034	045	045	042
	AIRS Point AIRS	0	001	900	200	800	600	010	010	011	013	013	024	025	026	026	027	027	032	033	034	045	045	045
		Facility Name	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National	Los Alamos National
	Inventory	Year (YYYY)	2003		Ī									Ī										

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