**SOUTH COAST**
**AIR QUALITY MANAGEMENT DISTRICT**
21865 Copley Dr.
Diamond Bar, CA 91765-4178

# ALL AMERICAN ASPHALT
# PERRIS HOT MIX ASPHALT PLANT
# FACILITY ID #148146
# REVISED HEALTH RISK ASSESSMENT REPORT
# REPORTING YEAR 2021

**Prepared For:**

All American Asphalt
400 E. 6th Street
Corona, California, 92879

Project No.: ALAMR-18-2287
Contact: Scott Taylor
Date: September 10, 2024

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## Modified by South Coast AQMD
October 17, 2025

## Executive Table: Required modifications made by South Coast AQMD

| Section/Page | Modifications | Reason for modification |
|---|---|---|
| Throughout Document | • Update with results of modeling performed by South Coast AQMD staff | These changes were made to align the document with the modeling methods required by South Coast AQMD as outlined in the AB2588 and Rule 1402 Supplementary Guidelines and the results of said modeling. |
| List of Key Definitions | • Add definition of 8-hour chronic and dose-response assessment for cancer and non-cancer health impacts | Added to align the document with the requirement by South Coast AQMD as outlined in the AB2588 and Rule 1402 Supplementary Guidelines |
| PART III<br><br>Section B(3)(g) | • Adjust list of sensitive receptors | These changes were made to align the document with the modeling methods required by South Coast AQMD as outlined in the AB2588 and Rule 1402 Supplementary Guidelines and ensure all sensitive receptors and census receptors within the zone of impact were properly evaluated. |
| PART III<br><br>Section D(1) | • Remove WAF from Worker Risk HARP Parameters | These changes were made to align the document with the modeling methods required by South Coast AQMD as outlined in the AB2588 and Rule 1402 Supplementary Guidelines. |
| Attachment E | • Update cancer burden table. | This change was made to reflect the most up-to-date guidance from OEHHA. |
| Attachment F | • Update the exposure pathways for certain compounds | This change was made to align the document with OEHHA Guidelines. |
| Attachment G | • Add target organ by TAC table | This change was made to align the document with OEHHA Guidelines. |

**South Coast Air Quality Management District**
21865 Copley Drive, Diamond Bar, CA 91765-4182
(909) 396-2000 • www.aqmd.gov

# RISK SUMMARY FORM

| Facility Name | Facility I.D. | Inventory Year |
|---|---|---|
| All American Asphalt_Perris | 148146 | 2021 |

| Facility Address | City | Zip Code |
|---|---|---|
| 4770 Indian Ave | Perris | 92571 |

Type of Business: Hot Mix Asphalt Facility

## A. Cancer Risk:

| Receptor Type | Cancer Risk (Per Million) | Receptor I.D. | UTME (m) | UTMN (m) |
|---|---|---|---|---|
| PMI | 164.8 | 11046 | 478221.00 | 3746334.60 |
| MEIR | 1.8 | 9346 | 478773.30 | 3745158.50 |
| MEIW | 5.4 | 11084 | 478080.90 | 3746324.70 |

| | |
|---|---|
| Substances Accounting for 90% of Cancer Risk: | Arsenic, Cobalt, Cadmium, Cr(VI), Benzene, Lead |
| Processes Accounting for 90% of Cancer Risk: | Baghouse Stack Dryer, Haul Roads, RAP Pile |
| Cancer Burden (based on a 70-yr exposure): | 1.05E-03 |
| Number of people exposed to >1 per million Cancer Risk: | 868 |
| Number of people exposed to >10 per million Cancer Risk: | 0 |
| Number of people exposed to >100 per million Cancer Risk: | 0 |
| Max distance from center of facility to the furthest edge of 70-yr, 1 per million isopleth (m): | 2447.31 |

## B. Maximum Chronic Hazard Indices:

| Receptor Type | Hazard Index | Receptor I.D. | UTME (m) | UTMN (m) | Toxicological Endpoint |
|---|---|---|---|---|---|
| PMI | 5.00 | 11046 | 478221.00 | 3746334.60 | Respiratory |
| MEIR | 0.08 | 9346 | 478773.30 | 3745158.50 | CV, CNS, REPRO/DEVEL , RESP , SKIN |
| MEIW | 0.78 | 11084 | 478080.90 | 3746324.70 | Respiratory |

| | |
|---|---|
| Substances Accounting for 90% of Chronic HI: | Arsenic, Mercury, Nickel |
| Processes Accounting for 90% of Chronic HI: | Baghouse Stack Dryer, Haul Roads, RAP Pile, AGG HANDLING |

## C. Maximum 8-hour Chronic Hazard Index:

| Receptor Type | Hazard Index | Receptor I.D. | UTME (m) | UTMN (m) | Toxicological Endpoint |
|---|---|---|---|---|---|
| MEIW | 0.13 | 11084 | 478080.90 | 3746324.70 | Central Nervous System |

| | |
|---|---|
| Substances Accounting for 90% of 8-hr Chronic HI: | Manganese, Arsenic |
| Processes Accounting for 90% of 8-hr Chronic HI: | Haul Roads, Baghouse Stack Dryer, Brakleen Welding Portable Engine |

## D. Maximum Acute Hazard Indices:

| Receptor Type | Hazard Index | Receptor I.D. | UTME (m) | UTMN (m) | Toxicological Endpoint |
|---|---|---|---|---|---|
| PMI | 0.64 | 11047 | 478241.00 | 3746334.50 | Immune |
| MEIR | 0.04 | 10247 | 477848.80 | 3745728.00 | Immune |
| MEIW | 0.43 | 11084 | 478080.90 | 3746324.70 | Immune |

| | |
|---|---|
| Substances Accounting for 90% of Acute HI: | Nickel |
| Processes Accounting for 90% of Acute HI: | RAP Pile, Haul Roads, Baghouse Stack Dryer |

Public Notification Required ☐ Risk Reduction Required ☐

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# List of Abbreviations / Acronyms

| | |
|---|---|
| AB | Assembly Bill |
| AERMOD | American Meteorological Society/Environmental Protection Agency Regulatory Model |
| APR | Application Policy Review |
| BLL | Blood Lead level |
| CARB | California Air Resources Board |
| CAS | Chemical Abstracts Service |
| DEM | Digital Elevation Models |
| GEP | Good Engineering Practice |
| HRA | Health Risk Assessment |
| HARP | Hot Spots Analysis and Reporting Program |
| HI | Hazard Index |
| MEIR | Maximum Exposed Individual Resident |
| MEIW | Maximum Exposed Individual Worker |
| MET | Meteorological |
| OEHHA | Office of Environmental Health Hazard Assessment |
| PM | Particulate Matter |
| PMI | Point of Maximum Impact |
| RAP | Recycled Asphalt Pavement |
| REL | Reference Exposure Limit |
| SB | Senate Bill |
| SOUTH COAST AQMD | South Coast Air Quality Management District |
| TEIR | Toxic Emissions Inventory Report |
| US EPA | United States Environmental Protection Agency |
| USGS | United States Geological Survey |
| UTM | Universal Transverse Mercator |
| VOC | Volatile Organic Compounds |

# List of Key Definitions

2015 OEHHA Guidelines - Office of Environmental Health Hazard Assessment (OEHHA), Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, February 2015

Action Risk Level - For Rule 1402, the action risk level is a MICR of twenty-five chances in-one-million (25 x 10-6) total acute or chronic HI of three (3.0) for any target organ system at any receptor location, or the National Ambient Air Quality Standard (NAAQS) for lead.

Acute Health Impacts - An effect caused by initial exposure of a hazardous chemical on the body. The effects are generally severe but are often reversible after exposure stops.

Chronic Health Impacts - An effect caused by prolonged or repeated exposures over time. Symptoms may not be apparent immediately but develop over time and are often irreversible.

**8-hour Chronic Health Impacts -** non-cancer health impacts from exposures that occur on a recurrent basis but only during a portion of each day. The 8-hour RELs are designed to protect against periodic exposure that could occur as often as daily and may share characteristics of both acute and chronic exposure. These RELs were developed because of concerns that applying the chronic REL in some cases was overly conservative. 8-hour RELs are "concentrations at or below which adverse health effects are not likely to occur in the general human population with intermittent exposures of eight hours per day, up to 7 days per week." (OEHHA 2015)

Cancer Health Impacts - An exposure to a carcinogenic substance that causes an increase in the likelihood for cancer in the exposed individual.

Dose-Response Assessment - The process of characterizing the relationship between the exposure to an agent and the incidence of an adverse health effect in exposed populations.

Maximum Exposed Individual (MEI) - The receptor location having the highest cancer, 8-hour chronic, chronic, or acute health impact.

Multipathway Substances - A substance or chemical that once airborne from an emission source can, under environmental conditions, be taken into a human receptor by inhalation and by other non-inhalation exposure routes, such as deposition on skin or ingestion of soil contaminated by the emission.

Notification Risk Level - For Rule 1402, the notification risk level is a MICR of ten chances in-one-million (10 x 10- 6), a total acute or chronic HI of one (1.0) for any target organ system at any receptor location, or the more stringent of either the NAAQS for lead or ambient lead concentration limit in an applicable South Coast AQMD rule.

Risk Reduction Measure - A control measure which will reduce or eliminate the health risk associated with emissions of toxic air contaminants, is real, permanent, quantifiable, and enforceable through South Coast AQMD permit conditions if applicable. Risk reduction measures may include but are not limited to feedstock modification; product reformulations; production system modifications; system enclosure, emissions control, capture or conversion; operational standards or practices modifications; emissions collection and exhaust; source control; or alternative technologies.

Modified by South Coast AQMD

**Dose-Response Assessment** - The dose-response assessment (also referred to as the toxicity assessment) examines the potential for a chemical to cause adverse health effects in exposed individuals (as modeled). Toxicity values that are used to estimate the likelihood of adverse effects occurring in humans are identified in this component of the risk assessment process. Toxicity factors in the latest HARP Health Database, integrated into the HARP program were used in the Modified 2021 HRA. The HARP program contains the most up-to-date listing of available inhalation and oral CPFs, chronic inhalation and oral RELs, and acute RELs approved by California Environmental Protection Agency (Cal/EPA) for use in AB2588 Air Toxics Hot Spots Program risk assessments.

# Part I EXECUTIVE SUMMARY

On behalf of All American Asphalt, Taylor Environmental Services has prepared a Health Risk Assessment in accordance with AB2588 for All American Asphalt's facility (ID 148146) located at 4770 Indian Ave, Perris, CA 92571. All American Asphalt has prepared this Health Risk Assessment (HRA) in accordance with the South Coast Air Quality Management District (South Coast AQMD) letter dated December 15, 2023. This revised report was then modified by the South Coast AQMD to address deficiencies.

## A. Project overview

The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588 or the "Act") was enacted in September 1987. Under the Act, stationary sources are required to report the types and quantities of certain toxic substances their facilities routinely release into the air. AB 2588 is designed to provide information to state and local agencies and to the general public on the extent of airborne emissions from stationary sources and the potential public health impacts of those emissions. The South Coast AQMD is mandated by the State to implement AB 2588.

On March 6, 2015, The State Office of Environmental Health Hazard Assessment (OEHHA) adopted changes to the Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments. These revisions were designed to incorporate three technical support documents and to provide enhanced protection of children as required under state law (SB 25, Escutia, 1999). Due to these recent changes, and the corresponding potential increases in calculated health risk, the South Coast AQMD notified All American Asphalt that a Health Risk Assessment (HRA) is required under AB 2588. The Health Risk Assessment was completed based on 2021 reporting year.

Pursuant to the Air Toxics "Hot Spots" Information and Assessment Act of 1987, we have prepared a Health Risk Assessment (HRA) Report following OEHHA "Air Toxic Hot Spots Program, Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessment", February 2015.

All American Asphalt's Hot Mix Asphalt facility produces State of California Standard Specification asphalt concrete mixes, which typically consist of ¾", ½", ⅜" asphalt concrete mix. The emissions from this facility are from asphaltic concrete drum mix plant, aggregate handling, aggregate stockpiles, asphalt silo storage and loadout, recycled asphalt product handling and stockpiles, asphalt oil tanks and crumb rubber processing facility.

On November 3, 2023, All American Asphalt submitted an Air Toxics Inventory Report (ATIR) which was reviewed and approved by South Coast AQMD.

This modified HRA was prepared in accordance with the approved ATIR and addresses the deficiencies noted by South Coast AQMD staff.

## B. Summary results

LAKES AERMOD v12.0.0 (AERMOD Version 23132) was used to run an air dispersion model to determine ground level concentrations from the facility. The California Air Resourced Board Health Risk Assessment model (HARP2) model was used to process the data to complete the results for the various required HRAs. The HRA evaluated worker and residential receptor impacts from the site.

The listed substances predominantly driving the risk for the Maximum Exposed Individual Resident (MEIR) and Maximum Exposed Individual Worker (MEIW) are arsenic, cobalt, cadmium, hexavalent chromium, benzene, and lead. The main sources of these substances the dryer, haul roads, RAP storage pile, and aggregate handling.

Table 1 below summarizes the cancer, non-cancer chronic, and acute results at the MEIR, MEIW, and Point of Maximum Impact (PMI).

**Table 1 – Risk Summary Results**

| Risk Assessment [1] | Results | Coordinates | | Receptor Number |
|---|---|---|---|---|
| | | X (m) | Y (m) | |
| Cancer risk at the MEIR (chances in-one-million) | 1.8 | 478773.30 | 3745158.50 | 9346 |
| Cancer risk at the MEIW (chances in-one-million) | 5.4 | 478080.90 | 3746324.70 | 11084 |
| Non-Cancer Chronic risk at the MEIR (Hazard Index) | 0.08 | 478773.30 | 3745158.50 | 9346 |
| Non-Cancer Chronic risk at the MEIW (Hazard Index) | 0.78 | 478080.90 | 3746324.70 | 11084 |
| Acute risk at the PMI (Hazard Index) | 0.64 | 478241.00 | 3746334.50 | 11047 |

1. Residential cancer risk is based on 30-year exposure. Worker cancer risk is based on 25-year exposure.

The resulting impacts are below South Coast AQMD Rule 1402 Action Risk Levels of 25 chances in-one-million for cancer risks and hazard index of 3.0 for non-cancer risks at the residential and worker receptors. The resulting impacts were also below South Coast AQMD's Rule 1402 Notification Risk Levels of 10 chances in-one-million for cancer risks and a hazard index of 1.0 for non-cancer risks.

South Coast AQMD's Rule 1402 also includes an Action Risk Level of 0.5 for cancer burden. The cancer burden estimated for the facility was well below the action risk level threshold.

# Part II Project Description

## A. Business Background

| | | |
|---|---|---|
| 1. | Name | All American Asphalt |
| 2. | Owner | All American Asphalt<br><br>400 E. 6th Street<br>Corona, California, 92879 |
| 3. | Contact | John Gardner<br>(951) 736-3844 |
| 4. | Entitlement | Equipment is owned and operated by All American Asphalt |
| 5. | Business Description | Hot Mix Asphalt Facility |

## B. Type of Project

Health Risk Assessment Report
(Reporting Year 2021)

## C. Description of Facility

The facility is located at 4770 Indian Ave, Perris, CA 92571 (ID 148146). Refer to Figure 1 for a vicinity map detailing the location of the site.

## D. Description of Process

### 1. Hot Mix Plant

This facility produces hot mix asphalt which is comprised of aggregate and asphalt oil. The facility receives aggregate at the plant by truck. The aggregate is stored in open stockpiles where water is used to control PM emissions. The stockpiles sit on top of a tunnel conveyor which directly feeds the plants. The 100 MMBTU/hr dryer fired on natural gas heats the aggregate. The materials from the dryer are then transferred to an external coater where the asphaltic oil is introduced, and the aggregate is mixed with it. The blended asphalt is transferred from the external coater to a drag slat conveyer, which is conveyed to silos. The finished product is then loaded out of the silos into trucks.

2. Recycle Crushing and RAP Feed System

The facility also can receive and process Recycled Asphalt Pavement (RAP) through one of two crushing systems. The crushing system is fed using an end loader and the material is processed by a horizontal shaft impactor where material is crushed and fed via conveyor to a screen where the material is either fed back to the crusher or fed to the aggregate receiving system for the asphalt plant where the processed material is conveyed to the dedicated recycle silo for storage. Once the plant requires RAP, the material is fed via conveyor to the dryer and blended with the aggregate and asphalt oil. Note, when RAP is added, the virgin aggregate is reduced by a like amount.

3. Process Flow Diagram and Plant Location

Attached you will find the process flow diagram shows the interaction between equipment and process lines, transfer of materials and basic control equipment (Refer to Attachment "D").

4. Production Data

The plant production for 2021 is as follows:

| | |
|---|---|
| Sand and Aggregate Used (tons/yr) | [redacted] |
| Hot Mix Asphalt Produced (tons/yr) | [redacted] |
| RAP (tons/yr) | [redacted] |
| AC oil (tons/year) | [redacted] |
| Stockpile Tons | [redacted] |


**Figure 1 – Vicinity Map**

# Part III Risk Assessment Procedures

## A. Hazard Identification

For air toxic source, hazard identification involves the pollutant(s) of concern emitted by a facility, and the types of adverse health effects associated with exposure to the chemical(s), including whether a pollutant is a potential human carcinogen or is associated with other types of adverse health effects.

Table 2 below describes the sources of the toxic emissions at the facility. The emission sources used in the HRA were imported directly from the EIM database that was prepared for the ATIR. Table 2 links the source IDs used in this HRA with the associated devices and processes found in the approved ATIR.

**Table 2 – Toxic Emissions Source Summary**

| HRA Source ID | HRA Source Description | ATIR Source ID | | ATIR Source Description |
|---|---|---|---|---|
| | | Device No. | Process No. | |
| S0001 | BAGHOUSE STACK DRYER | 12 | 1 | DRYER COMBUSTION |
| | | 12 | 2 | DRUM DRYER EMISSIONS |
| S0002 | BLUE SMOKE CONTROL | 12 | 3 | SILO LOADING EMISSIONS |
| | | 12 | 4 | TRUCK LOAD OUT EMISSIONS |
| S0003 | HOT OIL HEATER STACK | 7 | 1 | HOT OIL HEATER |
| S0004 | CRUMB RUBBER HEATER STACK | 9 | 1 | CRUMB RUBBER HEATER |
| S0005 | AC TANK 1 | 15 | 1 | STORAGE TANK #1 EMISSIONS |
| S0006 | AC TANK 2 | 16 | 1 | STORAGE TANK #2 EMISSIONS |
| S0007 | AC TANK 3 | 17 | 1 | STORAGE TANK #3 EMISSIONS |
| S0008 | AC TANK 4 | 18 | 1 | STORAGE TANK #4 EMISSIONS |
| S0009 | AC TANK 5 | 19 | 1 | STORAGE TANK #5 EMISSIONS |
| S0010 | CRUMB RUBBER TANK | 20 | 1 | CRUMB RUBBER TANK |
| | | 27 | 1 | CRUMB RUBBER MIXING TANK |
| S0011 | AGG HANDLING | 11 | 1 | RAP RECEIVING HOPPER – TELSMITH |
| | | 11 | 2 | RAP CONVEYORS – TELSMITH |
| | | 11 | 3 | RAP BELT 33 – TELSMITH |
| | | 12 | 6 | AGGREGATE CONVEYOR |
| | | 12 | 8 | AGGREGATE SCREEN |
| | | 13 | 1 | AGGREGATE RECEIVING HOPPER/ DRIVEOVER BELT |
| | | 13 | 2 | INCLINE BELT |

| | | | | |
|---|---|---|---|---|
| | | 13 | 3 | SHUTTLE CONVEYOR |
| | | 28 | 1 | RAP RECEIVING HOPPER – LIPPMANN |
| | | 28 | 2 | CONVEYORS 73, 74 – LIPPMANN |
| | | 28 | 3 | CONVEYOR 76 – LIPPMANN |
| | | 28 | 4 | CONVEYORS 76, 78, 79 – LIPPMANN |
| | | 28 | 6 | SCREENING – LIPPMANN |
| S0012 | ES11P4 BAGHOUSE CRUSHING TELSMITH | 11 | 4 | CRUSHER – TELSMITH |
| S0013 | ES11P5 BAGHOUSE SCREENING TELSMITH | 11 | 5 | SCREENING – TELSMITH |
| S0014 | ES28P5 BAGHOUSE CRUSHING LIPMAN | 28 | 5 | CRUSHER – LIPPMANN |
| S0015 | HAUL ROAD SEGMENT 1 | 25 | 1 | PAVED ROADS |
| S0016 | HAUL ROAD SEGMENT 2 | 25 | 2 | PAVED ROADS |
| S0017 | HAUL ROAD SEGMENT 3 | 25 | 3 | PAVED ROADS |
| S0018 | HAUL ROAD SEGMENT 4 | 25 | 4 | PAVED ROADS |
| S0019 | HAUL ROAD SEGMENT 5 | 25 | 5 | PAVED ROADS |
| S0020 | HAUL ROAD SEGMENT 6 | 25 | 6 | PAVED ROADS |
| S0021 | HAUL ROAD SEGMENT 7 | 25 | 7 | PAVED ROADS |
| S0022 | HAUL ROAD SEGMENT 8 | 25 | 8 | PAVED ROADS |
| S0023 | HAUL ROAD SEGMENT 9 | 25 | 9 | PAVED ROADS |
| S0024 | HAUL ROAD SEGMENT 10 | 25 | 10 | PAVED ROADS |
| S0025 | HAUL ROAD SEGMENT 11 | 25 | 11 | PAVED ROADS |
| S0026 | RAP PILE | 23 | 1 | STORAGE PILE EMISSIONS |
| S0028 | BRAKLEEN WELDING PORTABLE ENGINE | 14 | 1 | E7018 EMISSIONS |
| | | 14 | 2 | E6010 EMISSIONS |
| | | 24 | 1 | ER316 EMISSIONS |
| | | 29 | 1 | PORTABLE DIESEL WELDER |

Attached you will find a table identifying all substances that were evaluated for cancer risk, noncancer acute, 8-hour and chronic health impacts. (Refer to Attachment “A”, Table 1). In addition, you will find the toxic emissions table found in Attachment “A”, Table 2 for the toxic emissions table summed by substance.

The emissions inventory for the facility was based on production data from the facility for reporting year 2021.

## B. Exposure Assessment

### 1. Facility Information

All American Asphalt owns and operates a Hot Mix Asphalt Facility located at 4770 Indian Ave, Perris, CA 92571 (UTM 478081 m E, 3746334 m N, Zone 11). Attached you will find a vicinity map which details the location of the facility (Refer to Figure 1). Refer to Figure 2, 3, and 4 for a facility plot plan detailing the emission source locations and property boundary lines. Refer to Figure 5 for a map detailing the locations of the receptors.

### 2. Toxic Emission Inventory Report – Reporting Year 2021

The following tables detail the toxic emissions for each source for the 2021 reporting year.

S0001 (Baghouse Dryer Stack)

| ES12P1 Dryer Combustion | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | MMscf/yr[1] | x | EF[2] (lbs/MMscf) | = | Annual Emissions (lb/yr) | ÷ | hours/hr | = | Hourly Emissions (lb/hr) |
| Acrolein | 107028 | [redacted] | | [redacted] | | 0.0789392 | | [redacted] | | 4.56296E-05 |
| Ammonia | 7664417 | | | | | 315.7568 | | | | 0.182518382 |
| 1. Gas Bill<br>2. SOUTH COAST AQMD, General Instructions Book, Appendix A | | | | | | | | | | |

S0001 (Baghouse Dryer Stack) Continued

| ES12P2 Dryer Baghouse | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | Asphalt Produced (ktons/yr) | x | EF[1] (lbs/kton) | = | Annual Emissions (lb/yr) | ÷ | hours | = | Hourly Emissions (lb/hr) |
| 2-Methylnaphthalene | 91576 | [redacted] | | [redacted] | | 3.276E+01 | | [redacted] | | 1.894E-02 |
| Acenaphthene | 83329 | | | | | 5.445E-01 | | | | 3.148E-04 |
| Acenaphthylene | 208968 | | | | | 4.693E+00 | | | | 2.713E-03 |
| Acetaldehyde | 75070 | | | | | 2.829E+01 | | | | 1.635E-02 |
| Anthracene | 120127 | | | | | 4.281E-01 | | | | 2.475E-04 |
| Antimony | 7440360 | | | | | 7.969E-02 | | | | 4.606E-05 |
| Arsenic | 7440382 | | | | | 8.854E-01 | | | | 5.118E-04 |
| Barium | 7440393 | | | | | 2.568E+00 | | | | 1.484E-03 |
| Benzene | 71432 | | | | | 1.469E+02 | | | | 8.491E-02 |
| Benzo(a)anthracene | 56553 | | | | | 6.951E-03 | | | | 4.018E-06 |
| Benzo(a)pyrene | 50328 | | | | | 7.216E-04 | | | | 4.171E-07 |
| Benzo(b)fluoranthene | 205992 | | | | | 1.651E-03 | | | | 9.545E-07 |
| Benzo(e)pyrene | 192972 | | | | | 1.833E-03 | | | | 1.059E-06 |
| Benzo(g,h,i)perylene | 191242 | | | | | 9.031E-04 | | | | 5.220E-07 |
| Benzo(k)fluoranthene | 207089 | | | | | 1.930E-03 | | | | 1.116E-06 |
| Beryllium | 7440417 | | | | | 8.854E-01 | | | | 5.118E-04 |
| Cadmium | 7440439 | | | | | 3.537E+00 | | | | 2.045E-03 |
| Chromium (Hex) | 18540299 | | | | | 1.700E-03 | | | | 9.827E-07 |
| Chromium (Total) | 7440473 | | | | | 6.862E-01 | | | | 3.967E-04 |
| Chrysene | 218019 | | | | | 1.426E-03 | | | | 8.240E-07 |
| Cobalt | 7440484 | | | | | 1.151E-02 | | | | 6.653E-06 |
| Copper | 7440508 | | | | | 2.160E+00 | | | | 1.249E-03 |
| Dibenz(a,h)anthracene | 53703 | | | | | 7.836E-04 | | | | 4.529E-07 |
| Ethylbenzene | 100414 | | | | | 1.479E+01 | | | | 8.547E-03 |
| Fluoranthene | 206440 | | | | | 1.594E+00 | | | | 9.213E-04 |
| Fluorene | 86737 | | | | | 1.173E+00 | | | | 6.781E-04 |
| Formaldehyde | 50000 | | | | | 3.481E+02 | | | | 2.012E-01 |
| Hexane | 110543 | | | | | 4.073E+02 | | | | 2.354E-01 |
| Hydrogen Sulfide | 7783064 | | | | | 3.961E+02 | | | | 2.290E-01 |
| Indeno(1,2,3-cd)pyrene | 193395 | | | | | 9.651E-04 | | | | 5.579E-07 |
| Isooctane (2,2,4-trimethylpentane) | 540841 | | | | | 1.771E+01 | | | | 1.024E-02 |
| Lead | 7439921 | | | | | 9.297E+00 | | | | 5.374E-03 |
| Manganese | 7439965 | | | | | 1.975E+01 | | | | 1.141E-02 |
| Mercury | 7439976 | | | | | 1.355E+01 | | | | 7.831E-03 |
| Methyl chloroform | 71556 | | | | | 1.549E+00 | | | | 8.957E-04 |
| Naphthalene | 91203 | | | | | 2.860E+01 | | | | 1.653E-02 |
| Nickel | 7440020 | | | | | 4.516E+00 | | | | 2.610E-03 |
| Perylene | 198550 | | | | | 3.896E-03 | | | | 2.252E-06 |
| Phenanthrene | 85018 | | | | | 3.431E+00 | | | | 1.983E-03 |
| Phosphorus | 7723140 | | | | | 1.240E+01 | | | | 7.165E-03 |
| Pyrene | 129000 | | | | | 3.117E+00 | | | | 1.802E-03 |
| Selenium | 7782492 | | | | | 8.810E-01 | | | | 5.092E-04 |
| Silver | 7440224 | | | | | 2.125E-01 | | | | 1.228E-04 |
| Thallium | 7440280 | | | | | 1.815E-03 | | | | 1.049E-06 |
| Toluene | 108883 | | | | | 2.351E+01 | | | | 1.359E-02 |
| Xylene (Total) | 1330207 | | | | | 2.338E+01 | | | | 1.351E-02 |
| Zinc | 7440666 | | | | | 1.133E+01 | | | | 6.551E-03 |

1. Emission factors are a combination of CATEF and AP-42 Chapter 11.1 provided by SOUTH COAST AQMD

## S0002 (Blue Smoke Control)

| ES12P3 SILO FILLING | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | Production (ktons/yr) | x | AP42 Proportion[1] (%) | x | Filter Efficiency | x | Organic PM EF[2] (lbs/kton) | = | Toxic Emissions (lbs/yr) | ÷ | hours/yr | = | Toxic Emissions (lbs/hr) |
| Formaldehyde | 50000 | [redacted] | | 0.006900 | | 1 | | [redacted] | | 37.224840 | | [redacted] | | 2.152E-02 |
| Benzo(a) anthracene | 56553 | | | 0.000560 | | 0.1 | | | | 0.006297 | | | | 3.640E-06 |
| Benzene | 71432 | | | 0.000320 | | 1 | | | | 1.726369 | | | | 9.979E-04 |
| Acenaphthene | 83329 | | | 0.004700 | | 0.1 | | | | 0.052851 | | | | 3.055E-05 |
| Phenanthrene | 85018 | | | 0.018000 | | 0.1 | | | | 0.202409 | | | | 1.170E-04 |
| Fluorene | 86737 | | | 0.010100 | | 0.1 | | | | 0.113574 | | | | 6.565E-05 |
| Naphthalene | 91203 | | | 0.018200 | | 0.1 | | | | 0.204658 | | | | 1.183E-04 |
| 2-Methylnaphthalene | 91576 | | | 0.052700 | | 0.1 | | | | 0.592607 | | | | 3.425E-04 |
| o-Xylene | 95476 | | | 0.000570 | | 1 | | | | 3.075096 | | | | 1.778E-03 |
| Ethylbenzene | 100414 | | | 0.000380 | | 1 | | | | 2.050064 | | | | 1.185E-03 |
| Styrene | 100425 | | | 0.000054 | | 1 | | | | 0.291325 | | | | 1.684E-04 |
| Toluene | 108883 | | | 0.000620 | | 1 | | | | 3.344841 | | | | 1.933E-03 |
| n-hexane | 110543 | | | 0.001000 | | 1 | | | | 5.394904 | | | | 3.118E-03 |
| Anthracene | 120127 | | | 0.001300 | | 0.1 | | | | 0.014618 | | | | 8.450E-06 |
| Pyrene | 129000 | | | 0.004400 | | 0.1 | | | | 0.049478 | | | | 2.860E-05 |
| Benzo(e) pyrene | 192972 | | | 0.000095 | | 0.1 | | | | 0.001068 | | | | 6.175E-07 |
| Perylene | 198550 | | | 0.000300 | | 0.1 | | | | 0.003373 | | | | 1.950E-06 |
| Fluoranthene | 206440 | | | 0.001500 | | 0.1 | | | | 0.016867 | | | | 9.750E-06 |
| Acenaphthylene | 208968 | | | 0.000140 | | 0.1 | | | | 0.001574 | | | | 9.100E-07 |
| Chrysene | 218019 | | | 0.002100 | | 0.1 | | | | 0.023614 | | | | 1.365E-05 |
| Xylenes | 1330207 | | | 0.002000 | | 1 | | | | 10.789809 | | | | 6.237E-03 |

1. AP-42 Table 11.1-15 and 11.1-16
2. AP-42 Table 11.1-14

| ES12P4 SILO LOADOUT | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | Production (ktons/yr) | x | AP42 Proportion[1] (%) | x | Filter Efficiency | x | Organic PM EF[2] (lbs/kton) | = | Toxic Emissions (lbs/yr) | ÷ | hours/yr | = | Toxic Emissions (lbs/hr) |
| Formaldehyde | 50000 | [redacted] | | 0.000880 | | 1 | | [redacted] | | 1.620256 | | [redacted] | | 9.366E-04 |
| Benzo(a) pyrene | 50328 | | | 0.000023 | | 0.1 | | | | 0.000347 | | | | 2.007E-07 |
| Dibenz(a,h) anthracene | 53703 | | | 0.000004 | | 0.1 | | | | 0.000056 | | | | 3.228E-08 |
| Benzo(a) anthracene | 56553 | | | 0.000190 | | 0.1 | | | | 0.002868 | | | | 1.658E-06 |
| Benzene | 71432 | | | 0.000520 | | 1 | | | | 0.957424 | | | | 5.534E-04 |
| Trichlorofluromethane | 75694 | | | 0.000013 | | 1 | | | | 0.023936 | | | | 1.384E-05 |
| Acenaphthene | 83329 | | | 0.002600 | | 0.1 | | | | 0.039244 | | | | 2.268E-05 |
| Phenanthrene | 85018 | | | 0.008100 | | 0.1 | | | | 0.122259 | | | | 7.067E-05 |
| Fluorene | 86737 | | | 0.007700 | | 0.1 | | | | 0.116222 | | | | 6.718E-05 |
| Naphthalene | 91203 | | | 0.012500 | | 0.1 | | | | 0.188672 | | | | 1.091E-04 |
| 2-Methylnaphthalene | 91576 | | | 0.023800 | | 0.1 | | | | 0.359231 | | | | 2.076E-04 |
| o-Xylene | 95476 | | | 0.000800 | | 1 | | | | 0.120750 | | | | 6.980E-05 |
| Ethylbenzene | 100414 | | | 0.002800 | | 1 | | | | 5.155361 | | | | 2.980E-03 |
| Styrene | 100425 | | | 0.000073 | | 1 | | | | 0.134408 | | | | 7.769E-05 |
| Toluene | 108883 | | | 0.002100 | | 1 | | | | 3.866521 | | | | 2.235E-03 |
| n-hexane | 110543 | | | 0.001500 | | 1 | | | | 2.761801 | | | | 1.596E-03 |
| Anthracene | 120127 | | | 0.000700 | | 0.1 | | | | 0.010566 | | | | 6.107E-06 |
| Pyrene | 129000 | | | 0.001500 | | 0.1 | | | | 0.022641 | | | | 1.309E-05 |
| Benzo(g,h,i) perylene | 191242 | | | 0.000019 | | 0.1 | | | | 0.000287 | | | | 1.658E-07 |
| Benzo(e) pyrene | 192972 | | | 0.000078 | | 0.1 | | | | 0.001177 | | | | 6.805E-07 |
| Indeno(1,2,3-cd)pyrene | 193395 | | | 0.000005 | | 0.1 | | | | 0.000071 | | | | 4.101E-08 |
| Perylene | 198550 | | | 0.000220 | | 0.1 | | | | 0.003321 | | | | 1.919E-06 |
| Benzo(b) fluoranthene | 205992 | | | 0.000076 | | 0.1 | | | | 0.001147 | | | | 6.631E-07 |
| Fluoranthene | 206440 | | | 0.000500 | | 0.1 | | | | 0.007547 | | | | 4.362E-06 |
| Benzo(k) fluoranthene | 207089 | | | 0.000022 | | 0.1 | | | | 0.000332 | | | | 1.919E-07 |
| Acenaphthylene | 208968 | | | 0.000280 | | 0.1 | | | | 0.004226 | | | | 2.443E-06 |
| Chrysene | 218019 | | | 0.001030 | | 0.1 | | | | 0.015547 | | | | 8.986E-06 |
| Xylenes | 1330207 | | | 0.004100 | | 1 | | | | 0.618843 | | | | 3.577E-04 |

1. AP-42 Table 11.1-15 and 11.1-16
2. AP-42 Table 11.1-14

S0003 (Hot Oil Heater Stack)

| ES7P1 Hot Oil Heater | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | MMscf/yr[1] | x | EF[2] (lbs/MMscf) | = | Annual Emissions (lb/yr) | ÷ | hours/hr | = | Hourly Emissions (lb/hr) |
| PAHs [PAH, POM] | 1151 | [redacted] | | [redacted] | | 0.00032572 | | [redacted] | | 3.71826E-08 |
| Formaldehyde | 50000 | | | | | 0.0553724 | | | | 6.32105E-06 |
| Benzene | 71432 | | | | | 0.0260576 | | | | 2.97461E-06 |
| Acetaldehyde | 75070 | | | | | 0.01400596 | | | | 1.59885E-06 |
| Naphthalene | 91203 | | | | | 0.00097716 | | | | 1.11548E-07 |
| Ethyl Benzene | 100414 | | | | | 0.0309434 | | | | 3.53235E-06 |
| Acrolein | 107028 | | | | | 0.00879444 | | | | 1.00393E-06 |
| Toluene | 108883 | | | | | 0.11921352 | | | | 1.36088E-05 |
| Hexane | 110543 | | | | | 0.02052036 | | | | 2.34251E-06 |
| Xylenes | 1330207 | | | | | 0.08859584 | | | | 1.01137E-05 |
| Ammonia | 7664417 | | | | | 10.42304 | | | | 0.001189845 |

1. Gas Bill
2. SOUTH COAST AQMD, General Instructions Book, Appendix A, Table 10

S0004 (Crumb Rubber Heater Stack)

| ES9P1 Rubber Plant | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | MMscf/yr[1] | x | EF[2] (lbs/MMscf) | = | Annual Emissions (lb/yr) | ÷ | hours/hr | = | Hourly Emissions (lb/hr) |
| PAHs [PAH, POM] | 1151 | [redacted] | | [redacted] | | 0.000626 | | [redacted] | | 7.14612E-08 |
| Formaldehyde | 50000 | | | | | 0.10642 | | | | 1.21484E-05 |
| Benzene | 71432 | | | | | 0.05008 | | | | 5.71689E-06 |
| Acetaldehyde | 75070 | | | | | 0.026918 | | | | 3.07283E-06 |
| Naphthalene | 91203 | | | | | 0.001878 | | | | 2.14384E-07 |
| Ethyl Benzene | 100414 | | | | | 0.05947 | | | | 6.78881E-06 |
| Acrolein | 107028 | | | | | 0.016902 | | | | 1.92945E-06 |
| Toluene | 108883 | | | | | 0.229116 | | | | 2.61548E-05 |
| Hexane | 110543 | | | | | 0.039438 | | | | 4.50205E-06 |
| Xylenes | 1330207 | | | | | 0.170272 | | | | 1.94374E-05 |
| Ammonia | 7664417 | | | | | 20.032 | | | | 0.002286758 |

1. Gas Bill
2. SOUTH COAST AQMD, General Instructions Book, Appendix A, Table 10

## S0005 (AC Tank 1)

| ES15 AC Oil Tanks | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PM Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ Organic PM[2] | x | Proportion PM | x | Control Efficiency | = | Controlled Toxic PM Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic PM Emissions (lb/hr) |
| 2-Methyl naphthalene | 91576 | [redacted] | | 5.27 | | [redacted] | | 0.1 | | 1.015506866 | | [redacted] | | 0.000586998 |
| Acenaphthene | 83329 | | | 0.47 | | | | 0.1 | | 0.090567026 | | | | 5.23509E-05 |
| Acenaphthylene | 208968 | | | 0.014 | | | | 0.1 | | 0.002697741 | | | | 1.55939E-06 |
| Anthracene | 120127 | | | 0.13 | | | | 0.1 | | 0.025050454 | | | | 1.448E-05 |
| Benz(a) anthracene | 56553 | | | 0.056 | | | | 0.1 | | 0.010790965 | | | | 6.23755E-06 |
| Benzo(e)pyrene | 192972 | | | 0.0095 | | | | 0.1 | | 0.00183061 | | | | 1.05816E-06 |
| Chrysene | 218019 | | | 0.21 | | | | 0.1 | | 0.040466118 | | | | 2.33908E-05 |
| Perylene | 198550 | | | 0.03 | | | | 0.1 | | 0.005780874 | | | | 3.34155E-06 |
| Phenanthrene | 85018 | | | 1.8 | | | | 0.1 | | 0.34685244 | | | | 0.000200493 |
| Pyrene | 129000 | | | 0.44 | | | | 0.1 | | 0.084786152 | | | | 4.90093E-05 |
| Fluoranthene | 206440 | | | 0.15 | | | | 0.1 | | 0.02890437 | | | | 1.67077E-05 |
| Fluorene | 86737 | | | 1.01 | | | | 0.1 | | 0.194622758 | | | | 0.000112499 |
| Naphthalene | 91203 | | | 1.82 | | | | 0.1 | | 0.350706356 | | | | 0.00020272 |
| **VOC Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ VOC[2] | x | Proportion VOC | | Control Efficiency | = | Toxic VOC Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic VOC Emissions (lb/hr) |
| 2-Butanone | 78933 | [redacted] | | 0.039 | | [redacted] | | 1 | | 0.266445738 | | [redacted] | | 0.000154015 |
| Benzene | 71432 | | | 0.032 | | | | 1 | | 0.218622144 | | | | 0.000126371 |
| Bromomethane | 74839 | | | 0.0049 | | | | 1 | | 0.033476516 | | | | 1.93506E-05 |
| Carbon Disulfide | 75150 | | | 0.016 | | | | 1 | | 0.109311072 | | | | 6.31856E-05 |
| Chloroethane | 75003 | | | 0.004 | | | | 1 | | 0.027327768 | | | | 1.57964E-05 |
| Chloromethane | 74873 | | | 0.023 | | | | 1 | | 0.157134666 | | | | 9.08293E-05 |
| Ethyl benzene | 100414 | | | 0.038 | | | | 1 | | 0.259613796 | | | | 0.000150066 |
| Ethylene | 74851 | | | 1.1 | | | | 1 | | 7.5151362 | | | | 0.004344009 |
| Formaldehyde | 50000 | | | 0.69 | | | | 1 | | 4.71403998 | | | | 0.002724879 |
| Isooctane | 540841 | | | 0.00031 | | | | 1 | | 0.002117902 | | | | 1.22422E-06 |
| m-,p-Xylene | 1330207 | | | 0.2 | | | | 1 | | 1.3663884 | | | | 0.00078982 |
| Methylene chloride | 75092 | | | 0.00027 | | | | 1 | | 0.001844624 | | | | 1.06626E-06 |
| n-Hexane | 110543 | | | 0.1 | | | | 1 | | 0.6831942 | | | | 0.00039491 |
| o-Xylene | 95476 | | | 0.057 | | | | 1 | | 0.389420694 | | | | 0.000225099 |
| Styrene | 100425 | | | 0.0054 | | | | 1 | | 0.036892487 | | | | 2.13251E-05 |
| Toluene | 108883 | | | 0.062 | | | | 1 | | 0.423580404 | | | | 0.000244844 |
| 1. TANKS<br>2. AP-42 Section 11.1-15 and 11.1-16 | | | | | | | | | | | | | | |

## S0006 (AC Tank 2)

| ES16 AC Oil Tanks | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PM Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ Organic PM[2] | x | Proportion PM | x | Control Efficiency | = | Controlled Toxic PM Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic PM Emissions (lb/hr) |
| 2-Methyl naphthalene | 91576 | [redacted] | | 5.27 | | [redacted] | | 0.1 | | 1.015506866 | | [redacted] | | 0.000586998 |
| Acenaphthene | 83329 | | | 0.47 | | | | 0.1 | | 0.090567026 | | | | 5.23509E-05 |
| Acenaphthylene | 208968 | | | 0.014 | | | | 0.1 | | 0.002697741 | | | | 1.55939E-06 |
| Anthracene | 120127 | | | 0.13 | | | | 0.1 | | 0.025050454 | | | | 1.448E-05 |
| Benz(a) anthracene | 56553 | | | 0.056 | | | | 0.1 | | 0.010790965 | | | | 6.23755E-06 |
| Benzo(e)pyrene | 192972 | | | 0.0095 | | | | 0.1 | | 0.00183061 | | | | 1.05816E-06 |
| Chrysene | 218019 | | | 0.21 | | | | 0.1 | | 0.040466118 | | | | 2.33908E-05 |
| Perylene | 198550 | | | 0.03 | | | | 0.1 | | 0.005780874 | | | | 3.34155E-06 |
| Phenanthrene | 85018 | | | 1.8 | | | | 0.1 | | 0.34685244 | | | | 0.000200493 |
| Pyrene | 129000 | | | 0.44 | | | | 0.1 | | 0.084786152 | | | | 4.90093E-05 |
| Fluoranthene | 206440 | | | 0.15 | | | | 0.1 | | 0.02890437 | | | | 1.67077E-05 |
| Fluorene | 86737 | | | 1.01 | | | | 0.1 | | 0.194622758 | | | | 0.000112499 |
| Naphthalene | 91203 | | | 1.82 | | | | 0.1 | | 0.350706356 | | | | 0.00020272 |
| **VOC Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ VOC[2] | x | Proportion VOC | | Control Efficiency | = | Toxic VOC Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic VOC Emissions (lb/hr) |
| 2-Butanone | 78933 | [redacted] | | 0.039 | | [redacted] | | 1 | | 0.266445738 | | [redacted] | | 0.000154015 |
| Benzene | 71432 | | | 0.032 | | | | 1 | | 0.218622144 | | | | 0.000126371 |
| Bromomethane | 74839 | | | 0.0049 | | | | 1 | | 0.033476516 | | | | 1.93506E-05 |
| Carbon Disulfide | 75150 | | | 0.016 | | | | 1 | | 0.109311072 | | | | 6.31856E-05 |
| Chloroethane | 75003 | | | 0.004 | | | | 1 | | 0.027327768 | | | | 1.57964E-05 |
| Chloromethane | 74873 | | | 0.023 | | | | 1 | | 0.157134666 | | | | 9.08293E-05 |
| Ethyl benzene | 100414 | | | 0.038 | | | | 1 | | 0.259613796 | | | | 0.000150066 |
| Ethylene | 74851 | | | 1.1 | | | | 1 | | 7.5151362 | | | | 0.004344009 |
| Formaldehyde | 50000 | | | 0.69 | | | | 1 | | 4.71403998 | | | | 0.002724879 |
| Isooctane | 540841 | | | 0.00031 | | | | 1 | | 0.002117902 | | | | 1.22422E-06 |
| m-,p-Xylene | 1330207 | | | 0.2 | | | | 1 | | 1.3663884 | | | | 0.00078982 |
| Methylene chloride | 75092 | | | 0.00027 | | | | 1 | | 0.001844624 | | | | 1.06626E-06 |
| n-Hexane | 110543 | | | 0.1 | | | | 1 | | 0.6831942 | | | | 0.00039491 |
| o-Xylene | 95476 | | | 0.057 | | | | 1 | | 0.389420694 | | | | 0.000225099 |
| Styrene | 100425 | | | 0.0054 | | | | 1 | | 0.036892487 | | | | 2.13251E-05 |
| Toluene | 108883 | | | 0.062 | | | | 1 | | 0.423580404 | | | | 0.000244844 |
| 1. TANKS<br>2. AP-42 Section 11.1-15 and 11.1-16 | | | | | | | | | | | | | | |

## S0007 (AC Tank 3)

| ES17 AC Oil Tanks | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PM Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ Organic PM[2] | x | Proportion PM | x | Control Efficiency | = | Controlled Toxic PM Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic PM Emissions (lb/hr) |
| 2-Methyl naphthalene | 91576 | [redacted] | | 5.27 | | [redacted] | | 0.1 | | 1.015506866 | | [redacted] | | 0.000586998 |
| Acenaphthene | 83329 | | | 0.47 | | | | 0.1 | | 0.090567026 | | | | 5.23509E-05 |
| Acenaphthylene | 208968 | | | 0.014 | | | | 0.1 | | 0.002697741 | | | | 1.55939E-06 |
| Anthracene | 120127 | | | 0.13 | | | | 0.1 | | 0.025050454 | | | | 1.448E-05 |
| Benz(a) anthracene | 56553 | | | 0.056 | | | | 0.1 | | 0.010790965 | | | | 6.23755E-06 |
| Benzo(e)pyrene | 192972 | | | 0.0095 | | | | 0.1 | | 0.00183061 | | | | 1.05816E-06 |
| Chrysene | 218019 | | | 0.21 | | | | 0.1 | | 0.040466118 | | | | 2.33908E-05 |
| Perylene | 198550 | | | 0.03 | | | | 0.1 | | 0.005780874 | | | | 3.34155E-06 |
| Phenanthrene | 85018 | | | 1.8 | | | | 0.1 | | 0.34685244 | | | | 0.000200493 |
| Pyrene | 129000 | | | 0.44 | | | | 0.1 | | 0.084786152 | | | | 4.90093E-05 |
| Fluoranthene | 206440 | | | 0.15 | | | | 0.1 | | 0.02890437 | | | | 1.67077E-05 |
| Fluorene | 86737 | | | 1.01 | | | | 0.1 | | 0.194622758 | | | | 0.000112499 |
| Naphthalene | 91203 | | | 1.82 | | | | 0.1 | | 0.350706356 | | | | 0.00020272 |
| **VOC Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ VOC[2] | x | Proportion VOC | | Control Efficiency | = | Toxic VOC Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic VOC Emissions (lb/hr) |
| 2-Butanone | 78933 | [redacted] | | 0.039 | | [redacted] | | 1 | | 0.266445738 | | [redacted] | | 0.000154015 |
| Benzene | 71432 | | | 0.032 | | | | 1 | | 0.218622144 | | | | 0.000126371 |
| Bromomethane | 74839 | | | 0.0049 | | | | 1 | | 0.033476516 | | | | 1.93506E-05 |
| Carbon Disulfide | 75150 | | | 0.016 | | | | 1 | | 0.109311072 | | | | 6.31856E-05 |
| Chloroethane | 75003 | | | 0.004 | | | | 1 | | 0.027327768 | | | | 1.57964E-05 |
| Chloromethane | 74873 | | | 0.023 | | | | 1 | | 0.157134666 | | | | 9.08293E-05 |
| Ethyl benzene | 100414 | | | 0.038 | | | | 1 | | 0.259613796 | | | | 0.000150066 |
| Ethylene | 74851 | | | 1.1 | | | | 1 | | 7.5151362 | | | | 0.004344009 |
| Formaldehyde | 50000 | | | 0.69 | | | | 1 | | 4.71403998 | | | | 0.002724879 |
| Isooctane | 540841 | | | 0.00031 | | | | 1 | | 0.002117902 | | | | 1.22422E-06 |
| m-,p-Xylene | 1330207 | | | 0.2 | | | | 1 | | 1.3663884 | | | | 0.00078982 |
| Methylene chloride | 75092 | | | 0.00027 | | | | 1 | | 0.001844624 | | | | 1.06626E-06 |
| n-Hexane | 110543 | | | 0.1 | | | | 1 | | 0.6831942 | | | | 0.00039491 |
| o-Xylene | 95476 | | | 0.057 | | | | 1 | | 0.389420694 | | | | 0.000225099 |
| Styrene | 100425 | | | 0.0054 | | | | 1 | | 0.036892487 | | | | 2.13251E-05 |
| Toluene | 108883 | | | 0.062 | | | | 1 | | 0.423580404 | | | | 0.000244844 |
| 1. TANKS<br>2. AP-42 Section 11.1-15 and 11.1-16 | | | | | | | | | | | | | | |

## S0008 (AC Tank 4)

| ES18 AC Oil Tanks | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PM Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ Organic PM[2] | x | Proportion PM | x | Control Efficiency | = | Controlled Toxic PM Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic PM Emissions (lb/hr) |
| 2-Methyl naphthalene | 91576 | [redacted] | | 5.27 | | [redacted] | | 0.1 | | 1.015506866 | | [redacted] | | 0.000586998 |
| Acenaphthene | 83329 | | | 0.47 | | | | 0.1 | | 0.090567026 | | | | 5.23509E-05 |
| Acenaphthylene | 208968 | | | 0.014 | | | | 0.1 | | 0.002697741 | | | | 1.55939E-06 |
| Anthracene | 120127 | | | 0.13 | | | | 0.1 | | 0.025050454 | | | | 1.448E-05 |
| Benz(a) anthracene | 56553 | | | 0.056 | | | | 0.1 | | 0.010790965 | | | | 6.23755E-06 |
| Benzo(e)pyrene | 192972 | | | 0.0095 | | | | 0.1 | | 0.00183061 | | | | 1.05816E-06 |
| Chrysene | 218019 | | | 0.21 | | | | 0.1 | | 0.040466118 | | | | 2.33908E-05 |
| Perylene | 198550 | | | 0.03 | | | | 0.1 | | 0.005780874 | | | | 3.34155E-06 |
| Phenanthrene | 85018 | | | 1.8 | | | | 0.1 | | 0.34685244 | | | | 0.000200493 |
| Pyrene | 129000 | | | 0.44 | | | | 0.1 | | 0.084786152 | | | | 4.90093E-05 |
| Fluoranthene | 206440 | | | 0.15 | | | | 0.1 | | 0.02890437 | | | | 1.67077E-05 |
| Fluorene | 86737 | | | 1.01 | | | | 0.1 | | 0.194622758 | | | | 0.000112499 |
| Naphthalene | 91203 | | | 1.82 | | | | 0.1 | | 0.350706356 | | | | 0.00020272 |
| **VOC Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ VOC[2] | x | Proportion VOC | | Control Efficiency | = | Toxic VOC Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic VOC Emissions (lb/hr) |
| 2-Butanone | 78933 | [redacted] | | 0.039 | | [redacted] | | 1 | | 0.266445738 | | [redacted] | | 0.000154015 |
| Benzene | 71432 | | | 0.032 | | | | 1 | | 0.218622144 | | | | 0.000126371 |
| Bromomethane | 74839 | | | 0.0049 | | | | 1 | | 0.033476516 | | | | 1.93506E-05 |
| Carbon Disulfide | 75150 | | | 0.016 | | | | 1 | | 0.109311072 | | | | 6.31856E-05 |
| Chloroethane | 75003 | | | 0.004 | | | | 1 | | 0.027327768 | | | | 1.57964E-05 |
| Chloromethane | 74873 | | | 0.023 | | | | 1 | | 0.157134666 | | | | 9.08293E-05 |
| Ethyl benzene | 100414 | | | 0.038 | | | | 1 | | 0.259613796 | | | | 0.000150066 |
| Ethylene | 74851 | | | 1.1 | | | | 1 | | 7.5151362 | | | | 0.004344009 |
| Formaldehyde | 50000 | | | 0.69 | | | | 1 | | 4.71403998 | | | | 0.002724879 |
| Isooctane | 540841 | | | 0.00031 | | | | 1 | | 0.002117902 | | | | 1.22422E-06 |
| m-,p-Xylene | 1330207 | | | 0.2 | | | | 1 | | 1.3663884 | | | | 0.00078982 |
| Methylene chloride | 75092 | | | 0.00027 | | | | 1 | | 0.001844624 | | | | 1.06626E-06 |
| n-Hexane | 110543 | | | 0.1 | | | | 1 | | 0.6831942 | | | | 0.00039491 |
| o-Xylene | 95476 | | | 0.057 | | | | 1 | | 0.389420694 | | | | 0.000225099 |
| Styrene | 100425 | | | 0.0054 | | | | 1 | | 0.036892487 | | | | 2.13251E-05 |
| Toluene | 108883 | | | 0.062 | | | | 1 | | 0.423580404 | | | | 0.000244844 |
| 1. TANKS<br>2. AP-42 Section 11.1-15 and 11.1-16 | | | | | | | | | | | | | | |

## S0009 (AC Tank 5)

| ES19 AC Oil Tanks | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PM Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ Organic PM[2] | x | Proportion PM | x | Control Efficiency | = | Controlled Toxic PM Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic PM Emissions (lb/hr) |
| 2-Methyl naphthalene | 91576 | [redacted] | | 5.27 | | [redacted] | | 0.1 | | 1.015506866 | | [redacted] | | 0.000586998 |
| Acenaphthene | 83329 | | | 0.47 | | | | 0.1 | | 0.090567026 | | | | 5.23509E-05 |
| Acenaphthylene | 208968 | | | 0.014 | | | | 0.1 | | 0.002697741 | | | | 1.55939E-06 |
| Anthracene | 120127 | | | 0.13 | | | | 0.1 | | 0.025050454 | | | | 1.448E-05 |
| Benz(a) anthracene | 56553 | | | 0.056 | | | | 0.1 | | 0.010790965 | | | | 6.23755E-06 |
| Benzo(e)pyrene | 192972 | | | 0.0095 | | | | 0.1 | | 0.00183061 | | | | 1.05816E-06 |
| Chrysene | 218019 | | | 0.21 | | | | 0.1 | | 0.040466118 | | | | 2.33908E-05 |
| Perylene | 198550 | | | 0.03 | | | | 0.1 | | 0.005780874 | | | | 3.34155E-06 |
| Phenanthrene | 85018 | | | 1.8 | | | | 0.1 | | 0.34685244 | | | | 0.000200493 |
| Pyrene | 129000 | | | 0.44 | | | | 0.1 | | 0.084786152 | | | | 4.90093E-05 |
| Fluoranthene | 206440 | | | 0.15 | | | | 0.1 | | 0.02890437 | | | | 1.67077E-05 |
| Fluorene | 86737 | | | 1.01 | | | | 0.1 | | 0.194622758 | | | | 0.000112499 |
| Naphthalene | 91203 | | | 1.82 | | | | 0.1 | | 0.350706356 | | | | 0.00020272 |
| **VOC Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Per Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ VOC[2] | x | Proportion VOC | | Control Efficiency | = | Toxic VOC Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic VOC Emissions (lb/hr) |
| 2-Butanone | 78933 | [redacted] | | 0.039 | | [redacted] | | 1 | | 0.266445738 | | [redacted] | | 0.000154015 |
| Benzene | 71432 | | | 0.032 | | | | 1 | | 0.218622144 | | | | 0.000126371 |
| Bromomethane | 74839 | | | 0.0049 | | | | 1 | | 0.033476516 | | | | 1.93506E-05 |
| Carbon Disulfide | 75150 | | | 0.016 | | | | 1 | | 0.109311072 | | | | 6.31856E-05 |
| Chloroethane | 75003 | | | 0.004 | | | | 1 | | 0.027327768 | | | | 1.57964E-05 |
| Chloromethane | 74873 | | | 0.023 | | | | 1 | | 0.157134666 | | | | 9.08293E-05 |
| Ethyl benzene | 100414 | | | 0.038 | | | | 1 | | 0.259613796 | | | | 0.000150066 |
| Ethylene | 74851 | | | 1.1 | | | | 1 | | 7.5151362 | | | | 0.004344009 |
| Formaldehyde | 50000 | | | 0.69 | | | | 1 | | 4.71403998 | | | | 0.002724879 |
| Isooctane | 540841 | | | 0.00031 | | | | 1 | | 0.002117902 | | | | 1.22422E-06 |
| m-,p-Xylene | 1330207 | | | 0.2 | | | | 1 | | 1.3663884 | | | | 0.00078982 |
| Methylene chloride | 75092 | | | 0.00027 | | | | 1 | | 0.001844624 | | | | 1.06626E-06 |
| n-Hexane | 110543 | | | 0.1 | | | | 1 | | 0.6831942 | | | | 0.00039491 |
| o-Xylene | 95476 | | | 0.057 | | | | 1 | | 0.389420694 | | | | 0.000225099 |
| Styrene | 100425 | | | 0.0054 | | | | 1 | | 0.036892487 | | | | 2.13251E-05 |
| Toluene | 108883 | | | 0.062 | | | | 1 | | 0.423580404 | | | | 0.000244844 |

1. TANKS
2. AP-42 Section 11.1-15 and 11.1-16

## S0010 (Crumb Rubber Tank)

| ES20P1 Crumb Rubber Tank | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PM Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ Organic PM[2] | x | Proportion PM | x | Control Efficiency | = | Controlled Toxic PM Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic PM Emissions (lb/hr) |
| 2-Methyl naphthalene | 91576 | [redacted] | | 5.27 | | [redacted] | | 0.1 | | 1.23342769 | | [redacted] | | 0.000712964 |
| Acenaphthene | 83329 | | | 0.47 | | | | 0.1 | | 0.11000209 | | | | 6.3585E-05 |
| Acenaphthylene | 208968 | | | 0.014 | | | | 0.1 | | 0.003276658 | | | | 1.89402E-06 |
| Anthracene | 120127 | | | 0.13 | | | | 0.1 | | 0.03042611 | | | | 1.75873E-05 |
| Benz(a) anthracene | 56553 | | | 0.056 | | | | 0.1 | | 0.013106632 | | | | 7.57609E-06 |
| Benzo(e)pyrene | 192972 | | | 0.0095 | | | | 0.1 | | 0.002223447 | | | | 1.28523E-06 |
| Chrysene | 218019 | | | 0.21 | | | | 0.1 | | 0.04914987 | | | | 2.84103E-05 |
| Perylene | 198550 | | | 0.03 | | | | 0.1 | | 0.00702141 | | | | 4.05862E-06 |
| Phenanthrene | 85018 | | | 1.8 | | | | 0.1 | | 0.4212846 | | | | 0.000243517 |
| Pyrene | 129000 | | | 0.44 | | | | 0.1 | | 0.10298068 | | | | 5.95264E-05 |
| Fluoranthene | 206440 | | | 0.15 | | | | 0.1 | | 0.03510705 | | | | 2.02931E-05 |
| Fluorene | 86737 | | | 1.01 | | | | 0.1 | | 0.23638747 | | | | 0.00013664 |
| Naphthalene | 91203 | | | 1.82 | | | | 0.1 | | 0.42596554 | | | | 0.000246223 |
| **VOC Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ VOC[2] | x | Proportion VOC | | Control Efficiency | = | Toxic VOC Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic VOC Emissions (lb/hr) |
| 2-Butanone | 78933 | [redacted] | | 0.039 | | [redacted] | | 1 | | 0.32362317 | | [redacted] | | 0.000187065 |
| Benzene | 71432 | | | 0.032 | | | | 1 | | 0.26553696 | | | | 0.00015349 |
| Bromomethane | 74839 | | | 0.0049 | | | | 1 | | 0.040660347 | | | | 2.35031E-05 |
| Carbon Disulfide | 75150 | | | 0.016 | | | | 1 | | 0.13276848 | | | | 7.67448E-05 |
| Chloroethane | 75003 | | | 0.004 | | | | 1 | | 0.03319212 | | | | 1.91862E-05 |
| Chloromethane | 74873 | | | 0.023 | | | | 1 | | 0.19085469 | | | | 0.000110321 |
| Ethyl benzene | 100414 | | | 0.038 | | | | 1 | | 0.31532514 | | | | 0.000182269 |
| Ethylene | 74851 | | | 1.1 | | | | 1 | | 9.127833 | | | | 0.005276204 |
| Formaldehyde | 50000 | | | 0.69 | | | | 1 | | 5.7256407 | | | | 0.003309619 |
| Isooctane | 540841 | | | 0.00031 | | | | 1 | | 0.002572389 | | | | 1.48693E-06 |
| m-,p-Xylene | 1330207 | | | 0.2 | | | | 1 | | 1.659606 | | | | 0.00095931 |
| Methylene chloride | 75092 | | | 0.00027 | | | | 1 | | 0.002240468 | | | | 1.29507E-06 |
| n-Hexane | 110543 | | | 0.1 | | | | 1 | | 0.829803 | | | | 0.000479655 |
| o-Xylene | 95476 | | | 0.057 | | | | 1 | | 0.47298771 | | | | 0.000273403 |
| Styrene | 100425 | | | 0.0054 | | | | 1 | | 0.044809362 | | | | 2.59014E-05 |
| Toluene | 108883 | | | 0.062 | | | | 1 | | 0.51447786 | | | | 0.000297386 |

1. TANKS
2. AP-42 Section 11.1-15 and 11.1-16

## S0010 (Crumb Rubber Tank) Continued

| ES27P1 Mixing Tank | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PM Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ Organic PM[2] | x | Proportion PM | x | Control Efficiency | = | Controlled Toxic PM Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic PM Emissions (lb/hr) |
| 2-Methyl naphthalene | 91576 | [redacted] | | 5.27 | | [redacted] | | 0.1 | | 0.28248781 | | [redacted] | | 0.000163288 |
| Acenaphthene | 83329 | | | 0.47 | | | | 0.1 | | 0.02519341 | | | | 1.45627E-05 |
| Acenaphthylene | 208968 | | | 0.014 | | | | 0.1 | | 0.000750442 | | | | 4.33782E-07 |
| Anthracene | 120127 | | | 0.13 | | | | 0.1 | | 0.00696839 | | | | 4.02797E-06 |
| Benz(a) anthracene | 56553 | | | 0.056 | | | | 0.1 | | 0.003001768 | | | | 1.73513E-06 |
| Benzo(e)pyrene | 192972 | | | 0.0095 | | | | 0.1 | | 0.000509229 | | | | 2.94352E-07 |
| Chrysene | 218019 | | | 0.21 | | | | 0.1 | | 0.01125663 | | | | 6.50672E-06 |
| Perylene | 198550 | | | 0.03 | | | | 0.1 | | 0.00160809 | | | | 9.29532E-07 |
| Phenanthrene | 85018 | | | 1.8 | | | | 0.1 | | 0.0964854 | | | | 5.57719E-05 |
| Pyrene | 129000 | | | 0.44 | | | | 0.1 | | 0.02358532 | | | | 1.36331E-05 |
| Fluoranthene | 206440 | | | 0.15 | | | | 0.1 | | 0.00804045 | | | | 4.64766E-06 |
| Fluorene | 86737 | | | 1.01 | | | | 0.1 | | 0.05413903 | | | | 3.12942E-05 |
| Naphthalene | 91203 | | | 1.82 | | | | 0.1 | | 0.09755746 | | | | 5.63916E-05 |
| **VOC Pollutants** | | | | | | | | | | | | | | |
| **Chemical** | **CAS #** | Tank Loss/Year[1] | x | AP-42 Percent Present Compound/ VOC[2] | x | Proportion VOC | | Control Efficiency | = | Toxic VOC Emission (lbs/yr) | ÷ | Hours/yr | = | Controlled Toxic VOC Emissions (lb/hr) |
| 2-Butanone | 78933 | [redacted] | | 0.039 | | [redacted] | | 1 | | 0.07411833 | | [redacted] | | 4.2843E-05 |
| Benzene | 71432 | | | 0.032 | | | | 1 | | 0.06081504 | | | | 3.51532E-05 |
| Bromomethane | 74839 | | | 0.0049 | | | | 1 | | 0.009312303 | | | | 5.38283E-06 |
| Carbon Disulfide | 75150 | | | 0.016 | | | | 1 | | 0.03040752 | | | | 1.75766E-05 |
| Chloroethane | 75003 | | | 0.004 | | | | 1 | | 0.00760188 | | | | 4.39415E-06 |
| Chloromethane | 74873 | | | 0.023 | | | | 1 | | 0.04371081 | | | | 2.52664E-05 |
| Ethyl benzene | 100414 | | | 0.038 | | | | 1 | | 0.07221786 | | | | 4.17444E-05 |
| Ethylene | 74851 | | | 1.1 | | | | 1 | | 2.090517 | | | | 0.001208391 |
| Formaldehyde | 50000 | | | 0.69 | | | | 1 | | 1.3113243 | | | | 0.000757991 |
| Isooctane | 540841 | | | 0.00031 | | | | 1 | | 0.000589146 | | | | 3.40547E-07 |
| m-,p-Xylene | 1330207 | | | 0.2 | | | | 1 | | 0.380094 | | | | 0.000219708 |
| Methylene chloride | 75092 | | | 0.00027 | | | | 1 | | 0.000513127 | | | | 2.96605E-07 |
| n-Hexane | 110543 | | | 0.1 | | | | 1 | | 0.190047 | | | | 0.000109854 |
| o-Xylene | 95476 | | | 0.057 | | | | 1 | | 0.10832679 | | | | 6.26166E-05 |
| Styrene | 100425 | | | 0.0054 | | | | 1 | | 0.010262538 | | | | 5.9321E-06 |
| Toluene | 108883 | | | 0.062 | | | | 1 | | 0.11782914 | | | | 6.81093E-05 |

1. TANKS
2. AP-42 Section 11.1-15 and 11.1-16

S0011 (Agg Handling)

| ES11P1 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | [redacted] | | [redacted] | | 0.0001504 | | [redacted] | | 8.696E-08 |
| Berrylium | 7440417 | | | | | 6.961E-06 | | | | 4.024E-09 |
| Cadmium | 7440439 | | | | | 1.774E-05 | | | | 1.025E-08 |
| Chrystaline Silica[3] | 1175 | | | | | 0.5133806 | | | | 0.0002968 |
| Copper | 7440508 | | | | | 0.000741 | | | | 4.283E-07 |
| Hex Chrome | 18540299 | | | | | 2.245E-05 | | | | 1.298E-08 |
| Lead | 7439921 | | | | | 0.0005614 | | | | 3.245E-07 |
| Nickel | 7440020 | | | | | 0.0006512 | | | | 3.764E-07 |
| Barium | 7440393 | | | | | 0.0018638 | | | | 1.077E-06 |
| Chromium | 7440473 | | | | | 0.000741 | | | | 4.283E-07 |
| Cobalt | 7440484 | | | | | 0.0001841 | | | | 1.064E-07 |
| Zinc | 7440666 | | | | | 0.001729 | | | | 9.994E-07 |
| Molybdenum | 7439987 | | | | | 4.94E-05 | | | | 2.856E-08 |
| Vanadium | 7440622 | | | | | 0.0011901 | | | | 6.879E-07 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

| ES11P2 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | [redacted] | | [redacted] | | 0.0010531 | | [redacted] | | 6.087E-07 |
| Berrylium | 7440417 | | | | | 4.873E-05 | | | | 2.817E-08 |
| Cadmium | 7440439 | | | | | 0.0001242 | | | | 7.178E-08 |
| Chrystaline Silica[3] | 1175 | | | | | 3.5936644 | | | | 0.0020773 |
| Copper | 7440508 | | | | | 0.0051871 | | | | 2.998E-06 |
| Hex Chrome | 18540299 | | | | | 0.0001572 | | | | 9.086E-08 |
| Lead | 7439921 | | | | | 0.0039296 | | | | 2.271E-06 |
| Nickel | 7440020 | | | | | 0.0045583 | | | | 2.635E-06 |
| Barium | 7440393 | | | | | 0.0130463 | | | | 7.541E-06 |
| Chromium | 7440473 | | | | | 0.0051871 | | | | 2.998E-06 |
| Cobalt | 7440484 | | | | | 0.0012889 | | | | 7.45E-07 |
| Zinc | 7440666 | | | | | 0.0121032 | | | | 6.996E-06 |
| Molybdenum | 7439987 | | | | | 0.0003458 | | | | 1.999E-07 |
| Vanadium | 7440622 | | | | | 0.0083307 | | | | 4.815E-06 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

S0011 (Agg Handling) Continued

| ES11P3 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | | | | | 1.672E-05 | | | | 9.663E-09 |
| Berrylium | 7440417 | | | | | 7.734E-07 | | | | 4.471E-10 |
| Cadmium | 7440439 | | | | | 1.971E-06 | | | | 1.139E-09 |
| Chrystaline Silica[3] | 1175 | | | | | 0.0570423 | | | | 3.297E-05 |
| Copper | 7440508 | | | | | 8.233E-05 | | | | 4.759E-08 |
| Hex Chrome | 18540299 | | | | | 2.495E-06 | | | | 1.442E-09 |
| Lead | 7439921 | | | | | 6.237E-05 | | | | 3.605E-08 |
| Nickel | 7440020 | | | | | 7.235E-05 | | | | 4.182E-08 |
| Barium | 7440393 | | | | | 0.0002071 | | | | 1.197E-07 |
| Chromium | 7440473 | | | | | 8.233E-05 | | | | 4.759E-08 |
| Cobalt | 7440484 | | | | | 2.046E-05 | | | | 1.183E-08 |
| Zinc | 7440666 | | | | | 0.0001921 | | | | 1.11E-07 |
| Molybdenum | 7439987 | | | | | 5.489E-06 | | | | 3.173E-09 |
| Vanadium | 7440622 | | | | | 0.0001322 | | | | 7.644E-08 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

| ES12P6 Material Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | | | | | 0.0008131 | | | | 4.7E-07 |
| Berrylium | 7440417 | | | | | 4.969E-05 | | | | 2.872E-08 |
| Cadmium | 7440439 | | | | | 8.658E-05 | | | | 5.004E-08 |
| Chrystaline Silica[3] | 1175 | | | | | 3.4423985 | | | | 0.0019898 |
| Copper | 7440508 | | | | | 0.0056463 | | | | 3.264E-06 |
| Hex Chrome | 18540299 | | | | | 0.0001024 | | | | 5.918E-08 |
| Lead | 7439921 | | | | | 0.0026349 | | | | 1.523E-06 |
| Mercury | 7439976 | | | | | 8.432E-06 | | | | 4.874E-09 |
| Nickel | 7440020 | | | | | 0.0027102 | | | | 1.567E-06 |
| Barium | 7440393 | | | | | 0.0053753 | | | | 3.107E-06 |
| Chromium | 7440473 | | | | | 0.0061733 | | | | 3.568E-06 |
| Cobalt | 7440484 | | | | | 0.0018821 | | | | 1.088E-06 |
| Zinc | 7440666 | | | | | 0.0474288 | | | | 2.742E-05 |
| Molybdenum | 7439987 | | | | | 0.0001415 | | | | 8.181E-08 |
| Vanadium | 7440622 | | | | | 0.0113679 | | | | 6.571E-06 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

S0011 (Agg Handling) Continued

| ES12P8 Material Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | | | | | 0.0031942 | | | | 1.846E-06 |
| Berrylium | 7440417 | | | | | 0.0001952 | | | | 1.128E-07 |
| Cadmium | 7440439 | | | | | 0.0003401 | | | | 1.966E-07 |
| Chrystaline Silica[3] | 1175 | | | | | 13.523709 | | | | 0.0078172 |
| Copper | 7440508 | | | | | 0.0221818 | | | | 1.282E-05 |
| Hex Chrome | 18540299 | | | | | 0.0004022 | | | | 2.325E-07 |
| Lead | 7439921 | | | | | 0.0103515 | | | | 5.984E-06 |
| Mercury | 7439976 | | | | | 3.312E-05 | | | | 1.915E-08 |
| Nickel | 7440020 | | | | | 0.0106473 | | | | 6.155E-06 |
| Barium | 7440393 | | | | | 0.0211171 | | | | 1.221E-05 |
| Chromium | 7440473 | | | | | 0.0242521 | | | | 1.402E-05 |
| Cobalt | 7440484 | | | | | 0.0073939 | | | | 4.274E-06 |
| Zinc | 7440666 | | | | | 0.1863275 | | | | 0.0001077 |
| Molybdenum | 7439987 | | | | | 0.000556 | | | | 3.214E-07 |
| Vanadium | 7440622 | | | | | 0.0446594 | | | | 2.581E-05 |

1. AP-42, Table 11.19.2-2
2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

| ES13P1 Aggregate Handling: Receiving Hopper/ Driveover Belt | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | | | | | 0.0004065 | | | | 2.35E-07 |
| Berrylium | 7440417 | | | | | 2.484E-05 | | | | 1.436E-08 |
| Cadmium | 7440439 | | | | | 4.329E-05 | | | | 2.502E-08 |
| Chrystaline Silica[3] | 1175 | | | | | 1.7211993 | | | | 0.0009949 |
| Copper | 7440508 | | | | | 0.0028231 | | | | 1.632E-06 |
| Hex Chrome | 18540299 | | | | | 5.119E-05 | | | | 2.959E-08 |
| Lead | 7439921 | | | | | 0.0013175 | | | | 7.615E-07 |
| Mercury | 7439976 | | | | | 4.216E-06 | | | | 2.437E-09 |
| Nickel | 7440020 | | | | | 0.0013551 | | | | 7.833E-07 |
| Barium | 7440393 | | | | | 0.0026876 | | | | 1.554E-06 |
| Chromium | 7440473 | | | | | 0.0030866 | | | | 1.784E-06 |
| Cobalt | 7440484 | | | | | 0.000941 | | | | 5.44E-07 |
| Zinc | 7440666 | | | | | 0.0237144 | | | | 1.371E-05 |
| Molybdenum | 7439987 | | | | | 7.077E-05 | | | | 4.091E-08 |
| Vanadium | 7440622 | | | | | 0.0056839 | | | | 3.286E-06 |

1. AP-42, Table 11.19.2-2
2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

S0011 (Agg Handling) Continued

| ES13P2 Aggregate Handling: Incline Belt | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | | | | | 0.0002033 | | | | 1.175E-07 |
| Berrylium | 7440417 | | | | | 1.242E-05 | | | | 7.18E-09 |
| Cadmium | 7440439 | | | | | 2.164E-05 | | | | 1.251E-08 |
| Chrystaline Silica[3] | 1175 | | | | | 0.8605996 | | | | 0.0004975 |
| Copper | 7440508 | | | | | 0.0014116 | | | | 8.159E-07 |
| Hex Chrome | 18540299 | | | | | 2.56E-05 | | | | 1.48E-08 |
| Lead | 7439921 | | | | | 0.0006587 | | | | 3.808E-07 |
| Mercury | 7439976 | | | | | 2.108E-06 | | | | 1.218E-09 |
| Nickel | 7440020 | | | | | 0.0006776 | | | | 3.917E-07 |
| Barium | 7440393 | | | | | 0.0013438 | | | | 7.768E-07 |
| Chromium | 7440473 | | | | | 0.0015433 | | | | 8.921E-07 |
| Cobalt | 7440484 | | | | | 0.0004705 | | | | 2.72E-07 |
| Zinc | 7440666 | | | | | 0.0118572 | | | | 6.854E-06 |
| Molybdenum | 7439987 | | | | | 3.538E-05 | | | | 2.045E-08 |
| Vanadium | 7440622 | | | | | 0.002842 | | | | 1.643E-06 |

1. AP-42, Table 11.19.2-2
2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

| ES13P3 Aggregate Handling: Shuttle Conveyor | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | | | | | 0.0002033 | | | | 1.175E-07 |
| Berrylium | 7440417 | | | | | 1.242E-05 | | | | 7.18E-09 |
| Cadmium | 7440439 | | | | | 2.164E-05 | | | | 1.251E-08 |
| Chrystaline Silica[3] | 1175 | | | | | 0.8605996 | | | | 0.0004975 |
| Copper | 7440508 | | | | | 0.0014116 | | | | 8.159E-07 |
| Hex Chrome | 18540299 | | | | | 2.56E-05 | | | | 1.48E-08 |
| Lead | 7439921 | | | | | 0.0006587 | | | | 3.808E-07 |
| Mercury | 7439976 | | | | | 2.108E-06 | | | | 1.218E-09 |
| Nickel | 7440020 | | | | | 0.0006776 | | | | 3.917E-07 |
| Barium | 7440393 | | | | | 0.0013438 | | | | 7.768E-07 |
| Chromium | 7440473 | | | | | 0.0015433 | | | | 8.921E-07 |
| Cobalt | 7440484 | | | | | 0.0004705 | | | | 2.72E-07 |
| Zinc | 7440666 | | | | | 0.0118572 | | | | 6.854E-06 |
| Molybdenum | 7439987 | | | | | 3.538E-05 | | | | 2.045E-08 |
| Vanadium | 7440622 | | | | | 0.002842 | | | | 1.643E-06 |

1. AP-42, Table 11.19.2-2
2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

S0011 (Agg Handling) Continued

| ES28P1 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | [redacted] | | [redacted] | | 0.0001504 | | [redacted] | | 8.696E-08 |
| Berrylium | 7440417 | | | | | 6.961E-06 | | | | 4.024E-09 |
| Cadmium | 7440439 | | | | | 1.774E-05 | | | | 1.025E-08 |
| Chrystaline Silica[3] | 1175 | | | | | 0.5133806 | | | | 0.0002968 |
| Copper | 7440508 | | | | | 0.000741 | | | | 4.283E-07 |
| Hex Chrome | 18540299 | | | | | 2.245E-05 | | | | 1.298E-08 |
| Lead | 7439921 | | | | | 0.0005614 | | | | 3.245E-07 |
| Nickel | 7440020 | | | | | 0.0006512 | | | | 3.764E-07 |
| Barium | 7440393 | | | | | 0.0018638 | | | | 1.077E-06 |
| Chromium | 7440473 | | | | | 0.000741 | | | | 4.283E-07 |
| Cobalt | 7440484 | | | | | 0.0001841 | | | | 1.064E-07 |
| Zinc | 7440666 | | | | | 0.001729 | | | | 9.994E-07 |
| Molybdenum | 7439987 | | | | | 4.94E-05 | | | | 2.856E-08 |
| Vanadium | 7440622 | | | | | 0.0011901 | | | | 6.879E-07 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021

3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

| ES28P2 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | [redacted] | | [redacted] | | 0.000346 | | [redacted] | | 2E-07 |
| Berrylium | 7440417 | | | | | 1.601E-05 | | | | 9.255E-09 |
| Cadmium | 7440439 | | | | | 4.08E-05 | | | | 2.358E-08 |
| Chrystaline Silica[3] | 1175 | | | | | 1.1807754 | | | | 0.0006825 |
| Copper | 7440508 | | | | | 0.0017043 | | | | 9.852E-07 |
| Hex Chrome | 18540299 | | | | | 5.165E-05 | | | | 2.985E-08 |
| Lead | 7439921 | | | | | 0.0012912 | | | | 7.463E-07 |
| Nickel | 7440020 | | | | | 0.0014977 | | | | 8.657E-07 |
| Barium | 7440393 | | | | | 0.0042866 | | | | 2.478E-06 |
| Chromium | 7440473 | | | | | 0.0017043 | | | | 9.852E-07 |
| Cobalt | 7440484 | | | | | 0.0004235 | | | | 2.448E-07 |
| Zinc | 7440666 | | | | | 0.0039768 | | | | 2.299E-06 |
| Molybdenum | 7439987 | | | | | 0.0001136 | | | | 6.568E-08 |
| Vanadium | 7440622 | | | | | 0.0027372 | | | | 1.582E-06 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021

3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

S0011 (Agg Handling) Continued

| ES28P3 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | | | | | 2.257E-05 | | | | 1.304E-08 |
| Berrylium | 7440417 | | | | | 1.044E-06 | | | | 6.036E-10 |
| Cadmium | 7440439 | | | | | 2.661E-06 | | | | 1.538E-09 |
| Chrystaline Silica[3] | 1175 | | | | | 0.0770071 | | | | 4.451E-05 |
| Copper | 7440508 | | | | | 0.0001112 | | | | 6.425E-08 |
| Hex Chrome | 18540299 | | | | | 3.368E-06 | | | | 1.947E-09 |
| Lead | 7439921 | | | | | 8.421E-05 | | | | 4.867E-08 |
| Nickel | 7440020 | | | | | 9.768E-05 | | | | 5.646E-08 |
| Barium | 7440393 | | | | | 0.0002796 | | | | 1.616E-07 |
| Chromium | 7440473 | | | | | 0.0001112 | | | | 6.425E-08 |
| Cobalt | 7440484 | | | | | 2.762E-05 | | | | 1.597E-08 |
| Zinc | 7440666 | | | | | 0.0002594 | | | | 1.499E-07 |
| Molybdenum | 7439987 | | | | | 7.41E-06 | | | | 4.283E-09 |
| Vanadium | 7440622 | | | | | 0.0001785 | | | | 1.032E-07 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

| ES28P4 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | | | | | 0.0002257 | | | | 1.304E-07 |
| Berrylium | 7440417 | | | | | 1.044E-05 | | | | 6.036E-09 |
| Cadmium | 7440439 | | | | | 2.661E-05 | | | | 1.538E-08 |
| Chrystaline Silica[3] | 1175 | | | | | 0.7700709 | | | | 0.0004451 |
| Copper | 7440508 | | | | | 0.0011115 | | | | 6.425E-07 |
| Hex Chrome | 18540299 | | | | | 3.368E-05 | | | | 1.947E-08 |
| Lead | 7439921 | | | | | 0.0008421 | | | | 4.867E-07 |
| Nickel | 7440020 | | | | | 0.0009768 | | | | 5.646E-07 |
| Barium | 7440393 | | | | | 0.0027956 | | | | 1.616E-06 |
| Chromium | 7440473 | | | | | 0.0011115 | | | | 6.425E-07 |
| Cobalt | 7440484 | | | | | 0.0002762 | | | | 1.597E-07 |
| Zinc | 7440666 | | | | | 0.0025935 | | | | 1.499E-06 |
| Molybdenum | 7439987 | | | | | 7.41E-05 | | | | 4.283E-08 |
| Vanadium | 7440622 | | | | | 0.0017852 | | | | 1.032E-06 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

S0011 (Agg Handling) Continued

| ES28P6 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | [redacted] | | [redacted] | | 0.0027188 | | [redacted] | | 1.572E-06 |
| Berrylium | 7440417 | | | | | 0.0001258 | | | | 7.271E-08 |
| Cadmium | 7440439 | | | | | 0.0003206 | | | | 1.853E-07 |
| Chrystaline Silica[3] | 1175 | | | | | 9.2775214 | | | | 0.0053627 |
| Copper | 7440508 | | | | | 0.0133911 | | | | 7.741E-06 |
| Hex Chrome | 18540299 | | | | | 0.0004058 | | | | 2.346E-07 |
| Lead | 7439921 | | | | | 0.0101448 | | | | 5.864E-06 |
| Nickel | 7440020 | | | | | 0.0117679 | | | | 6.802E-06 |
| Barium | 7440393 | | | | | 0.0336807 | | | | 1.947E-05 |
| Chromium | 7440473 | | | | | 0.0133911 | | | | 7.741E-06 |
| Cobalt | 7440484 | | | | | 0.0033275 | | | | 1.923E-06 |
| Zinc | 7440666 | | | | | 0.0312459 | | | | 1.806E-05 |
| Molybdenum | 7439987 | | | | | 0.0008927 | | | | 5.16E-07 |
| Vanadium | 7440622 | | | | | 0.0215069 | | | | 1.243E-05 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021

3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

S0012 (ES11P4 Baghouse Crushing Telsmith)

| ES11P4 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | [redacted] | | [redacted] | | 1.433E-06 | | [redacted] | | 8.282E-10 |
| Berrylium | 7440417 | | | | | 6.63E-08 | | | | 3.832E-11 |
| Cadmium | 7440439 | | | | | 1.689E-07 | | | | 9.766E-11 |
| Chrystaline Silica[3] | 1175 | | | | | 0.0048893 | | | | 2.826E-06 |
| Copper | 7440508 | | | | | 7.057E-06 | | | | 4.079E-09 |
| Hex Chrome | 18540299 | | | | | 2.139E-07 | | | | 1.236E-10 |
| Lead | 7439921 | | | | | 5.346E-06 | | | | 3.09E-09 |
| Nickel | 7440020 | | | | | 6.202E-06 | | | | 3.585E-09 |
| Barium | 7440393 | | | | | 1.775E-05 | | | | 1.026E-08 |
| Chromium | 7440473 | | | | | 7.057E-06 | | | | 4.079E-09 |
| Cobalt | 7440484 | | | | | 1.754E-06 | | | | 1.014E-09 |
| Zinc | 7440666 | | | | | 1.647E-05 | | | | 9.518E-09 |
| Molybdenum | 7439987 | | | | | 4.705E-07 | | | | 2.72E-10 |
| Vanadium | 7440622 | | | | | 1.133E-05 | | | | 6.552E-09 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

S0013 (ES11P5 Baghouse Screening Telsmith)

| ES11P5 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | [redacted] | | [redacted] | | 2.364E-06 | | [redacted] | | 1.367E-09 |
| Berrylium | 7440417 | | | | | 1.094E-07 | | | | 6.323E-11 |
| Cadmium | 7440439 | | | | | 2.788E-07 | | | | 1.611E-10 |
| Chrystaline Silica[3] | 1175 | | | | | 0.0080674 | | | | 4.663E-06 |
| Copper | 7440508 | | | | | 1.164E-05 | | | | 6.731E-09 |
| Hex Chrome | 18540299 | | | | | 3.529E-07 | | | | 2.04E-10 |
| Lead | 7439921 | | | | | 8.822E-06 | | | | 5.099E-09 |
| Nickel | 7440020 | | | | | 1.023E-05 | | | | 5.915E-09 |
| Barium | 7440393 | | | | | 2.929E-05 | | | | 1.693E-08 |
| Chromium | 7440473 | | | | | 1.164E-05 | | | | 6.731E-09 |
| Cobalt | 7440484 | | | | | 2.893E-06 | | | | 1.673E-09 |
| Zinc | 7440666 | | | | | 2.717E-05 | | | | 1.571E-08 |
| Molybdenum | 7439987 | | | | | 7.763E-07 | | | | 4.487E-10 |
| Vanadium | 7440622 | | | | | 1.87E-05 | | | | 1.081E-08 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

## S0014 (ES28P5 Baghouse Crushing Lipman)

| ES28P5 RAP Handling | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | [redacted] | | [redacted] | | 3.224E-06 | | [redacted] | | 1.864E-09 |
| Berrylium | 7440417 | | | | | 1.492E-07 | | | | 8.622E-11 |
| Cadmium | 7440439 | | | | | 3.801E-07 | | | | 2.197E-10 |
| Chrystaline Silica[3] | 1175 | | | | | 0.011001 | | | | 6.359E-06 |
| Copper | 7440508 | | | | | 1.588E-05 | | | | 9.178E-09 |
| Hex Chrome | 18540299 | | | | | 4.812E-07 | | | | 2.781E-10 |
| Lead | 7439921 | | | | | 1.203E-05 | | | | 6.953E-09 |
| Nickel | 7440020 | | | | | 1.395E-05 | | | | 8.066E-09 |
| Barium | 7440393 | | | | | 3.994E-05 | | | | 2.309E-08 |
| Chromium | 7440473 | | | | | 1.588E-05 | | | | 9.178E-09 |
| Cobalt | 7440484 | | | | | 3.946E-06 | | | | 2.281E-09 |
| Zinc | 7440666 | | | | | 3.705E-05 | | | | 2.142E-08 |
| Molybdenum | 7439987 | | | | | 1.059E-06 | | | | 6.119E-10 |
| Vanadium | 7440622 | | | | | 2.55E-05 | | | | 1.474E-08 |

1. AP-42, Table 11.19.2-2

2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

## S0015- S0025 (Haul Roads)

| ES25P1-11 Paved Haul Roads Aggregate | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | Cas # | PM[2] ($lbs_{pm}$/yr) | x | EF[1] ($lbs/lbs_{pm}$) | ÷ | Number of Road Segments | = | Annual $E_{LS}$ (lbs/yr) | ÷ | Hours per year | = | Hourly $E_{LS}$ (lbs/hr) |
| Aluminum | 7429905 | [redacted] | | [redacted] | | 11 | | 30.5630483 | | [redacted] | | 1.76665E-02 |
| Lead | 7439921 | | | | | 11 | | 0.3490064 | | | | 2.01738E-04 |
| Manganese | 7439965 | | | | | 11 | | 0.4071096 | | | | 2.35323E-04 |
| Mercury | 7439976 | | | | | 11 | | 0.0058103 | | | | 3.35857E-06 |
| Nickel | 7440020 | | | | | 11 | | 0.0244033 | | | | 1.41060E-05 |
| Silver | 7440224 | | | | | 11 | | 0.0034862 | | | | 2.01514E-06 |
| Antimony | 7440360 | | | | | 11 | | 0.0027115 | | | | 1.56733E-06 |
| Arsenic | 7440382 | | | | | 11 | | 0.0058103 | | | | 3.35857E-06 |
| Barium | 7440393 | | | | | 11 | | 0.3687615 | | | | 2.13157E-04 |
| Cadmium | 7440439 | | | | | 11 | | 0.0096839 | | | | 5.59761E-06 |
| Chromium | 7440473 | | | | | 11 | | 0.0949019 | | | | 5.48566E-05 |
| Cobalt | 7440484 | | | | | 11 | | 0.0577158 | | | | 3.33617E-05 |
| Copper | 7440508 | | | | | 11 | | 0.0336998 | | | | 1.94797E-05 |
| Vanadium (Fume Or Dust) | 7440622 | | | | | 11 | | 0.1208546 | | | | 6.98582E-05 |
| Zinc | 7440666 | | | | | 11 | | 0.2409345 | | | | 1.39269E-04 |
| Phosphorus | 7723140 | | | | | 11 | | 0.6205420 | | | | 3.58695E-04 |
| Bromine | 7726956 | | | | | 11 | | 0.0081344 | | | | 4.70199E-06 |
| Selenium | 7782492 | | | | | 11 | | 0.0003874 | | | | 2.23904E-07 |
| Chlorine | 7782505 | | | | | 11 | | 0.5043356 | | | | 2.91523E-04 |

1. CARB Profile 416
2. Based on SOUTH COAST AQMD's Particulate Matter (PM) Emission Factors for Process/Equipment at Asphalt, Cement and Aggregate Product Plants interpretation of AP-42 13.2.1, Equation 1

S0026 (RAP Pile)

| ES23P1 Stockpiles | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | PM[1] (lbs/yr) | x | EF[2] (lb/lb PM) | = | Annual Emissions lb/yr | ÷ | hours | = | Hourly Emissions (lb/hr) |
| Arsenic | 7440382 | [redacted] | | [redacted] | | 0.0297237 | | [redacted] | | 1.718E-05 |
| Berrylium | 7440417 | | | | | 0.0013753 | | | | 7.95E-07 |
| Cadmium | 7440439 | | | | | 0.0035047 | | | | 2.026E-06 |
| Chrystaline Silica[3] | 1175 | | | | | 131.14266 | | | | 0.075805 |
| Copper | 7440508 | | | | | 0.1464002 | | | | 8.462E-05 |
| Hex Chrome | 18540299 | | | | | 0.0044364 | | | | 2.564E-06 |
| Lead | 7439921 | | | | | 0.1109092 | | | | 6.411E-05 |
| Nickel | 7440020 | | | | | 0.1286547 | | | | 7.437E-05 |
| Barium | 7440393 | | | | | 0.3682186 | | | | 0.0002128 |
| Chromium | 7440473 | | | | | 0.1464002 | | | | 8.462E-05 |
| Cobalt | 7440484 | | | | | 0.0363782 | | | | 2.103E-05 |
| Zinc | 7440666 | | | | | 0.3416004 | | | | 0.0001975 |
| Molybdenum | 7439987 | | | | | 0.00976 | | | | 5.642E-06 |
| Vanadium | 7440622 | | | | | 0.2351275 | | | | 0.0001359 |

1. AP-42, Table 11.19.2-2
2. RMA Group Materials Test Report from All American, Irvine, August 18, 2021
3. CRNOS-PM4 Crystaline Silica Emissions Factors and Ambient Concentrations November 2009

S0028 (Brakleen/Welding/Portable Engine)

| ES14P1 Welding Electrode (E7018) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | Electrode Usage (lb/yr) | x | EF[1] (lb/lb PM) | = | Annual Emissions (lb/yr) | ÷ | hours/hr | = | Hourly Emissions (lb/hr) |
| Manganese | 7439965 | [redacted] | | 0.00103 | | 0.11845 | | [redacted] | | 6.84682E-05 |
| Nickel | 7440020 | | | 0.000002 | | 0.00023 | | | | 1.32948E-07 |
| Hex chromium | 18540299 | | | 0 | | 0 | | | | 0 |
| Chromium | 7440473 | | | 0.000006 | | 0.00069 | | | | 3.98844E-07 |
| Cobalt | 7440484 | | | 0.000001 | | 0.000115 | | | | 6.6474E-08 |

1. Source: AP-42 Chapter 12.19, Table 12.19-2

S0028 (Brakleen/Welding/Portable Engine) Continued

| ES14P2 Welding Electrode (E6011) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | Electrode Usage (lb/yr) | x | EF[1] (lb/lb PM) | = | Annual Emissions (lb/yr) | ÷ | hours/hr | = | Hourly Emissions (lb/hr) |
| Manganese | 7439965 | [redacted] | | 0.000998 | | 0.008982 | | [redacted] | | 5.19191E-06 |
| Nickel | 7440020 | | | 0.000005 | | 0.000045 | | | | 2.60116E-08 |
| Hex chromium | 18540299 | | | ND | | 0 | | | | 0 |
| Chromium | 7440473 | | | 0.000005 | | 0.000045 | | | | 2.60116E-08 |
| Cobalt | 7440484 | | | 0.000001 | | 0.000009 | | | | 5.20231E-09 |
| 1. Source: AP-42 Chapter 12.19, Table 12.19-2 | | | | | | | | | | |

| ES24P1 Welding Electrode (ER316) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | Electrode Usage (lb/yr) | x | EF[1] (lb/lb PM) | = | Annual Emissions (lb/yr) | ÷ | hours/hr | = | Hourly Emissions (lb/hr) |
| Manganese | 7439965 | [redacted] | | 0.000245 | | 0.003675 | | [redacted] | | 2.12428E-06 |
| Nickel | 7440020 | | | 0.000226 | | 0.00339 | | | | 1.95954E-06 |
| Hex Chromium | 18540299 | | | 0.00001 | | 0.00015 | | | | 8.67052E-08 |
| Chromium | 7440473 | | | 0.000528 | | 0.00792 | | | | 4.57803E-06 |
| Cobalt | 7440484 | | | 0 | | 0 | | | | 0 |
| 1. Source: AP-42 Chapter 12.19, Table 12.19-2 | | | | | | | | | | |

S0028 (Brakleen/Welding/Portable Engine) Continued

| ES29P1 Portable Diesel Welder | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Pollutant | CAS | Diesel Usage (kgal/yr) | x | EF[1] (lb/kgal) | = | Annual Emissions (lb/yr) | ÷ | hours/hr | = | Hourly Emissions (lb/hr) |
| Benzene | 71432 | [redacted] | | 0.1863 | | 8.37382E-05 | | [redacted] | | 3.18396E-07 |
| 1,3-Butadiene | 106990 | | | 0.2174 | | 9.7717E-05 | | | | 3.71548E-07 |
| Cadmium | 7440439 | | | 0.0015 | | 6.74221E-07 | | | | 2.56358E-09 |
| Formaldehyde | 50000 | | | 1.7261 | | 0.000775848 | | | | 2.94999E-06 |
| Hexavalent chromium | 18540299 | | | 0.0001 | | 4.4948E-08 | | | | 1.70905E-10 |
| Arsenic | 7440382 | | | 0.0016 | | 7.19169E-07 | | | | 2.73448E-09 |
| Lead | 7439921 | | | 0.0083 | | 3.73069E-06 | | | | 1.41851E-08 |
| Nickel | 7440020 | | | 0.0039 | | 1.75297E-06 | | | | 6.6653E-09 |
| Naphthalene | 91203 | | | 0.0197 | | 8.85476E-06 | | | | 3.36683E-08 |
| PAHs (excluding Napht | 1151 | | | 0.0362 | | 1.62712E-05 | | | | 6.18676E-08 |
| Acetaldehyde | 75070 | | | 0.7833 | | 0.000352078 | | | | 1.3387E-06 |
| Acrolein | 107028 | | | 0.0339 | | 1.52374E-05 | | | | 5.79368E-08 |
| Ammonia* | 7664417 | | | 0.8 | | 0.000359584 | | | | 1.36724E-06 |
| Copper | 7440508 | | | 0.0041 | | 1.84287E-06 | | | | 7.00711E-09 |
| Ethyl Benzene | 100414 | | | 0.0109 | | 4.89934E-06 | | | | 1.86287E-08 |
| Hexane | 110543 | | | 0.0269 | | 1.2091E-05 | | | | 4.59735E-08 |
| Hydrogen Chloride | 7647010 | | | 0.1863 | | 8.37382E-05 | | | | 3.18396E-07 |
| Manganese | 7439965 | | | 0.0031 | | 1.39339E-06 | | | | 5.29806E-09 |
| Mercury | 7439976 | | | 0.002 | | 8.98961E-07 | | | | 3.4181E-09 |
| Selenium | 7782492 | | | 0.0022 | | 9.88857E-07 | | | | 3.75991E-09 |
| Toluene | 108883 | | | 0.1054 | | 4.73752E-05 | | | | 1.80134E-07 |
| Xylenes | 1330207 | | | 0.0424 | | 1.9058E-05 | | | | 7.24638E-08 |
| Diesel exhaust particul | 9901 | | | 33.5 | | 0.015057595 | | | | 5.72532E-05 |
| 1. SOUTH COAST AQMD, Combustion Default Emission Factors | | | | | | | | | | |

3. Source and Emission Inventory Information

a. Release Parameters

Below you will find a table which summarizes the source release data which includes release name, release type, source identification numbers, release location, release parameters and stack information. The release data below are identical to the release parameters found in the EIM file submitted with the ATIR.

**Table 3 – Source Release Data**

| Type | Source | Description | X Coordinate | Y Coordinate | Elevation | Emission Rate | Stack Height | Temp | Stack Velocity | Stack Diameter |
|---|---|---|---|---|---|---|---|---|---|---|
| | ID | | [m] | [m] | [m] | [g/s] | [m] | [C] | [ft/min] | [m] |
| Point | S0001 | BAGHOUSE STACK DRYER | | | 447 | 1 | 9.60 | 93.33 | 2302.626 | 1.16 |
| Point | S0002 | BLUE SMOKE CONTROL | | | 447 | 1 | 5.33 | 155.56 | 3636.28 | 1.14 |
| Point | S0003 | HOT OIL HEATER STACK | | | 447 | 1 | 3.35 | 182.78 | 254.64 | 0.30 |
| Point | S0004 | CRUMB RUBBER HEATER STACK | | | 447 | 1 | 4.88 | 220.56 | 305.57 | 0.38 |
| Point | S0005 | AC TANK 1 | | | 447 | 1 | 17.63 | 32.22 | 1.97 | 0.66 |
| Point | S0006 | AC TANK 2 | | | 447 | 1 | 17.63 | 32.22 | 1.97 | 0.66 |
| Point | S0007 | AC TANK 3 | | | 447 | 1 | 18.34 | 32.22 | 1.97 | 0.76 |
| Point | S0008 | AC TANK 4 | | | 447 | 1 | 18.47 | 32.22 | 1.97 | 1.05 |
| Point | S0009 | AC TANK 5 | | | 447 | 1 | 18.47 | 32.22 | 1.97 | 1.05 |
| Point | S0010 | CRUMB RUBBER TANK | | | 447 | 1 | 18.47 | 32.22 | 1.97 | 1.05 |
| Point | S0012 | ES11P4 BAGHOUSE CRUSHING TELSMITH | | | 447 | 1 | 7.13 | 20.00 | 8506.92 | 0.20 |
| Point | S0013 | ES11P5 BAGHOUSE SCREENING TELSMITH | | | 447 | 1 | 10.29 | 20.00 | 8506.92 | 0.20 |
| Point | S0014 | ES28P5 BAGHOUSE CRUSHING LIPMAN | | | 447 | 1 | 6.17 | 20.00 | 2696.67 | 0.36 |

| Type | Source | Description | X Coordinate | Y Coordinate | Elevation | Emission Rate | Release Height | X Length | Y Length | Angle | Init. Vert. Dim. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ID | | [m] | [m] | [m] | [g/s-m^2] | [m] | [m] | [m] | | [m] |
| Area | S0015 | HAUL ROAD SEGMENT 1 | | | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | -7.8 | 6.096 |
| Area | S0016 | HAUL ROAD SEGMENT 2 | | | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | -87.4 | 6.096 |
| Area | S0017 | HAUL ROAD SEGMENT 3 | | | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | -89.4 | 6.096 |
| Area | S0018 | HAUL ROAD SEGMENT 4 | | | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | -94.2 | 6.096 |
| Area | S0019 | HAUL ROAD SEGMENT 5 | | | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | 175.5 | 6.096 |
| Area | S0020 | HAUL ROAD SEGMENT 6 | | | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | 89.8 | 6.096 |
| Area | S0021 | HAUL ROAD SEGMENT 7 | | | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | 88.9 | 6.096 |
| Area | S0022 | HAUL ROAD SEGMENT 8 | | | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | 93.8 | 6.096 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Area | S0023 | HAUL ROAD SEGMENT 9 | [redacted] | [redacted] | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | 180 | 6.096 |
| Area | S0024 | HAUL ROAD SEGMENT 10 | [redacted] | [redacted] | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | -89.4 | 6.096 |
| Area | S0025 | HAUL ROAD SEGMENT 11 | [redacted] | [redacted] | 447 | 0.00328 | 3.048 | 6.096 | 50.0 | -89.4 | 6.096 |
| Area | S0026 | RAP PILE | [redacted] | [redacted] | 447 | 0.00187 | 2.4384 | 17.73936 | 30.2 | 0 | 6.096 |
| Area | S0028 | BRAKLEEN WELDING PORTABLE ENGINE | [redacted] | [redacted] | 447 | 0.00013 | 1.524 | 75 | 100.0 | 90 | 0.353568 |

| Type | Source | Description | X Coordinate | Y Coordinate | Elevation | Emission Rate | Release Height | Init. Lat. Dim. | Init. Vert. Dim. |
|---|---|---|---|---|---|---|---|---|---|
| | ID | | [m] | [m] | [m] | [g/s] | [m] | [m] | [m] |
| Volume | S0011 | AGG HANDLING | [redacted] | [redacted] | 447 | 1 | 3.048 | 27.0067 | 22.86 |



Modified by South Coast AQMD

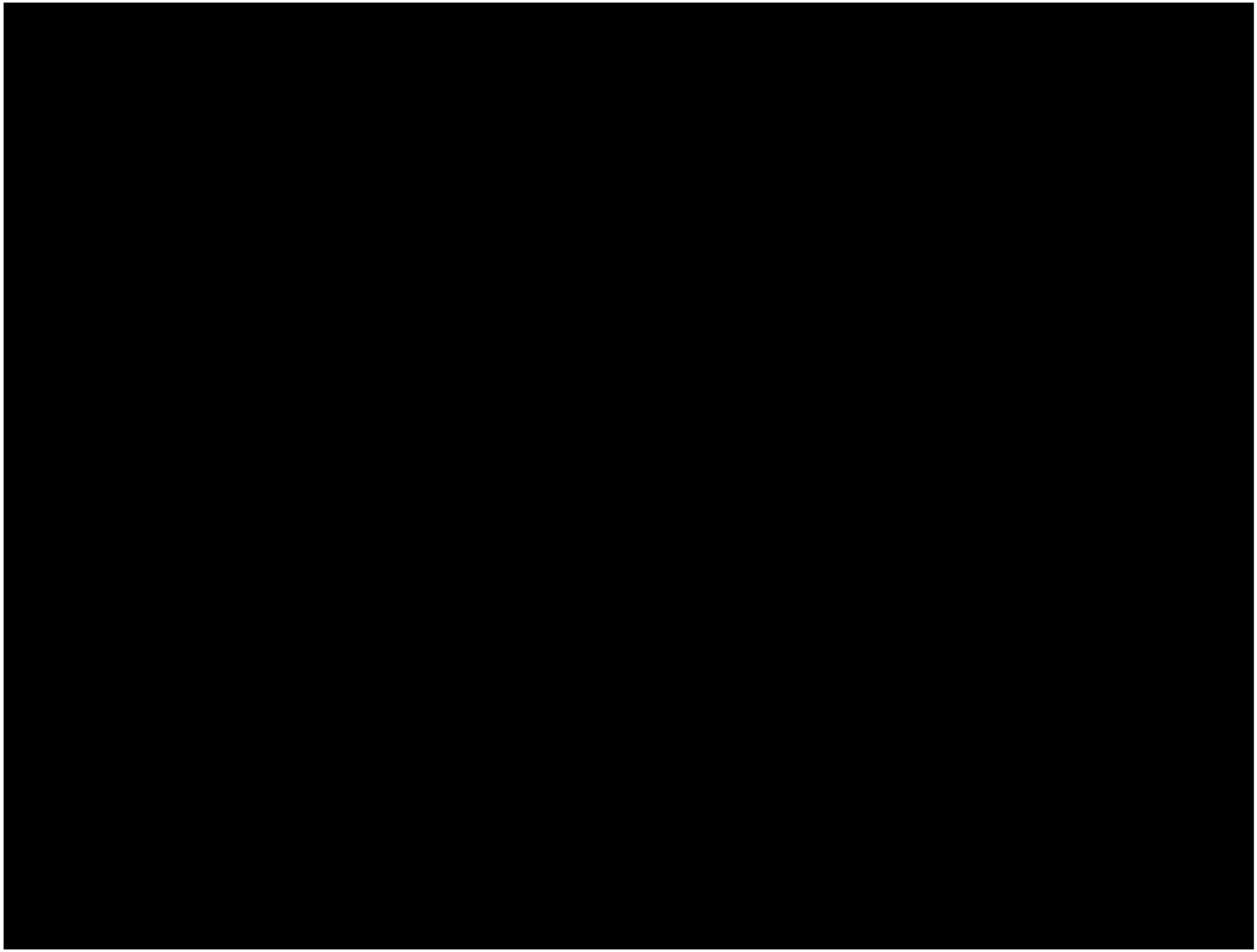

Figure 2 – Point Source ID Map

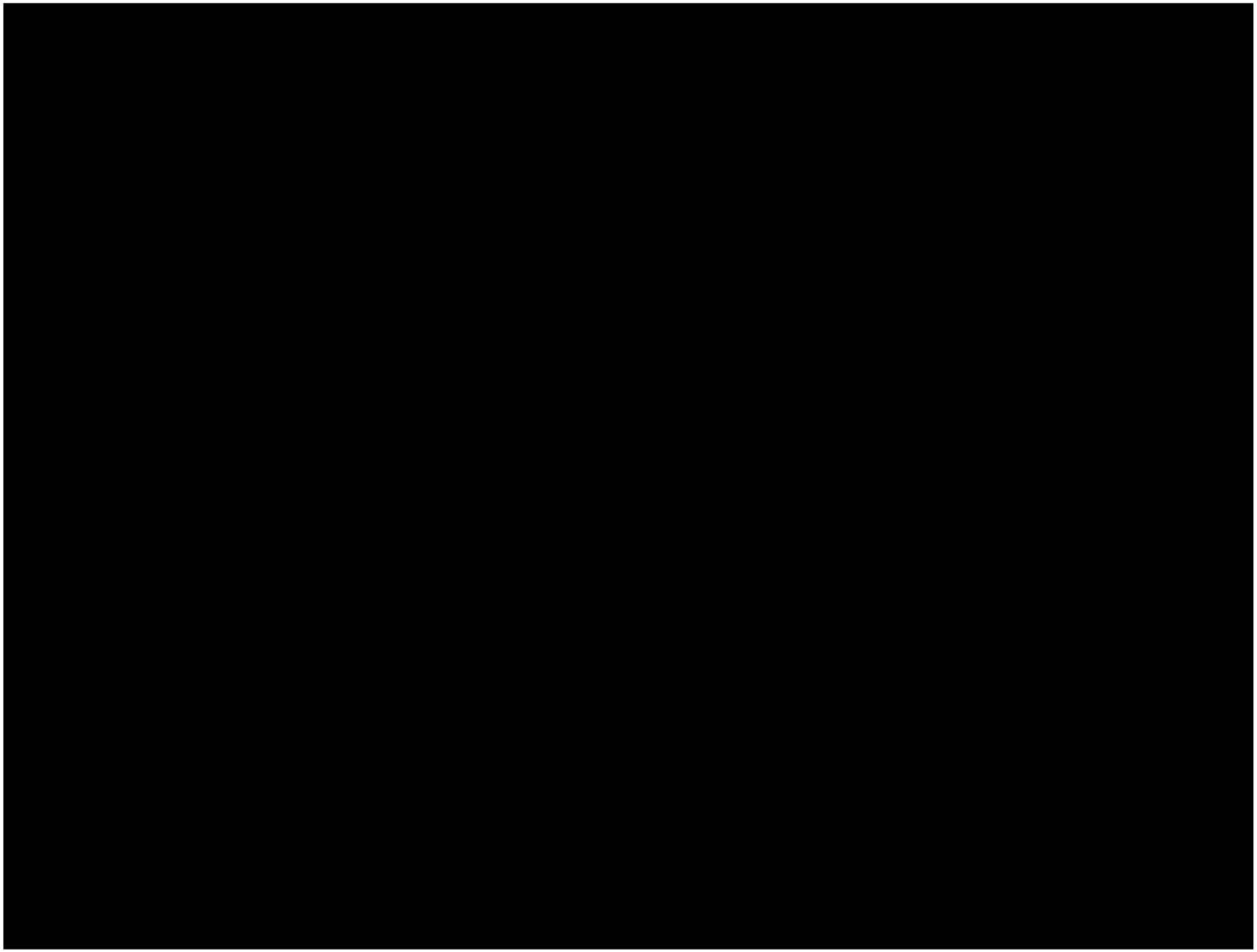

Figure 3 – Area Source ID Map

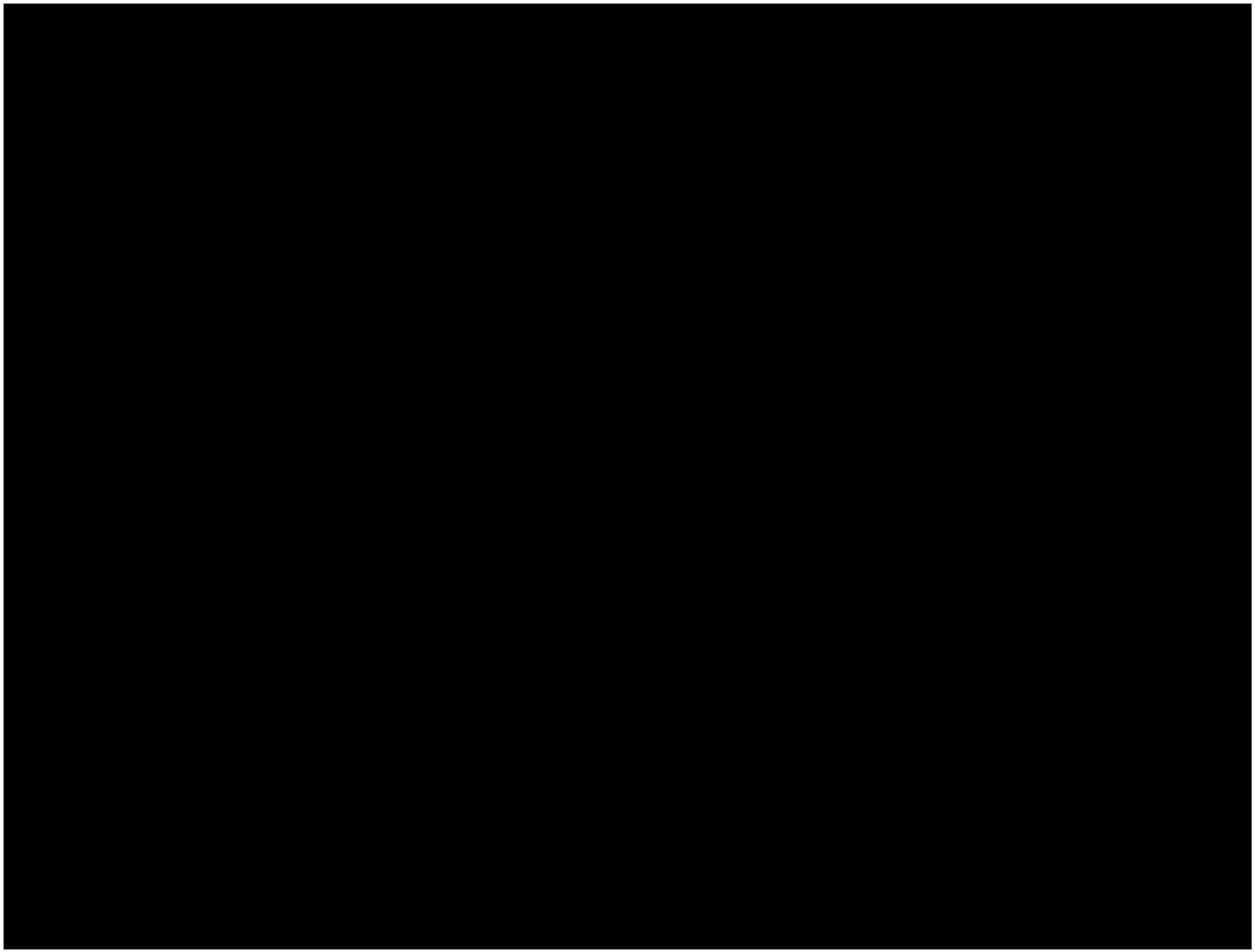

Figure 4 – Volume Source ID Map

b. Source Description, Operating Schedule, Emission Control Equipment

A table detailing the source description, operating schedule, emission equipment control can be found below in Table 4.

**Table 4 – Source Schedule and Control Equipment**

| Source ID | Description | Operating Schedule (hrs./yr) |
|---|---|---|
| S0001 | BAGHOUSE STACK DRYER | |
| S0002 | BLUE SMOKE CONTROL | |
| S0003 | HOT OIL HEATER STACK | |
| S0004 | CRUMB RUBBER HEATER STACK | |
| S0005 | AC TANK 1 | |
| S0006 | AC TANK 2 | |
| S0007 | AC TANK 3 | |
| S0008 | AC TANK 4 | |
| S0009 | AC TANK 5 | |
| S0010 | CRUMB RUBBER TANK | |
| S0011 | AGG HANDLING | |
| S0012 | ES11P4 BAGHOUSE CRUSHING TELSMITH | |
| S0013 | ES11P5 BAGHOUSE SCREENING TELSMITH | |
| S0014 | ES28P5 BAGHOUSE CRUSHING LIPMAN | |
| S0015 | HAUL ROAD SEGMENT 1 | |
| S0016 | HAUL ROAD SEGMENT 2 | |
| S0017 | HAUL ROAD SEGMENT 3 | |
| S0018 | HAUL ROAD SEGMENT 4 | |
| S0019 | HAUL ROAD SEGMENT 5 | |
| S0020 | HAUL ROAD SEGMENT 6 | |
| S0021 | HAUL ROAD SEGMENT 7 | |
| S0022 | HAUL ROAD SEGMENT 8 | |
| S0023 | HAUL ROAD SEGMENT 9 | |
| S0024 | HAUL ROAD SEGMENT 10 | |
| S0025 | HAUL ROAD SEGMENT 11 | |
| S0026 | RAP PILE | |
| S0028 | BRAKLEEN WELDING PORTABLE ENGINE | |

c. Emissions Data Grouped by Source

Attached you will find a report which details the Annual and Hourly Emissions which includes the source name, source identification number, substance name and CAS number (Refer to Attachment "A", Table 1).

d. Emissions Data Grouped by Substance

Attached you will find a report which details the Annual and Hourly facility total emission rate by substance for all emitted substance (Refer to Attachment "A", Table 2).

e. Emission Estimation Methods

The emissions approved in the submitted toxic emission report were utilized in the Health Risk Assessment. The methods used to calculate the emissions are detailed in the submitted Toxic Emission Inventory Report (TEIR).

f. List of Substances

Attached you will find a table listing all "Hot Spots" Program substances which are emitted (Refer to Attachment "A", Table 2).

g. Exposed Population and Receptor Location

Below you will find Table 5 which summarizes the location of the Maximum Impacted Worker Receptor (MEIW), Maximum Impacted Residential Receptor (MEIR), and Point of Maximum Impact (PMI) that were evaluated against Rule 1402 thresholds. Figure 5 details the location of these receptors. Table 6 identifies one sensitive receptor located within the residential 30-year cancer risk zone of impact.

**Table 5 – Receptor Location: Resident and Worker**

| Receptor No. | Name | UTM Coordinates | | Miles From Site |
|---|---|---|---|---|
| | | X (m) | Y (m) | |
| 9346 | Cancer MEIR | 478773.30 | 3745158.50 | 0.75 |
| 9346 | Chronic MEIR | 478773.30 | 3745158.50 | 0.75 |
| 11084 | Cancer MEIW | 478080.90 | 3746324.70 | Fenceline |
| 11084 | Chronic MEIW | 478080.90 | 3746324.70 | Fenceline |
| 11084 | 8-Hour Chronic MEIW | 478080.90 | 3746324.70 | Fenceline |
| 11047 | Acute PMI | 478241.00 | 3746334.50 | Fenceline |

**Table 6 – Receptor Locations Sensitive**

| Receptor No. | Name | UTM Coordinates | | Miles From Site |
|---|---|---|---|---|
| | | X (m) | Y (m) | |
| 9463 | Mental Health Urgent Care | 479173.30 | 3744858.50 | 1.01 |


**Figure 5 – MEIR, MEIW and PMI Locations**

Attached you will find isopleths which detail the cancer risk and the hazard index for both residential and worker impacts. (Refer to Attachment "B" for each respective isopleth).

All American Perris is located in the Inland Empire in Riverside County. The facility lies in an industrial area of the city surrounded by businesses on all sides.

4. Meteorological Data

Meteorological data for the surface and profile preprocessed files were obtained for South Coast AQMD Perris MET station (Station No. 99999) for years 2010- 2016. The MET Station is approximately 4.62 miles to the South of the facility. Figure 6 details the location of the meteorological station and the site location. Data is coming form South Coast AQMD MET data found here: https://www.aqmd.gov/home/air-quality/meteorological-data/aermod-table-1

Figure 7 wind rose details the prevailing wind direction coming from the North/Northwest direction.

5. Geographical Data

The Geographic Data for the Health Risk Assessment included in the model is the *World Geodetic System 1984 (WGS 84) a*nd *Universal Transverse Mercator Zone 11N (UTM WGS 84)*. Both coordinate systems were used in site and device identification, receptor location, and modeling.


Figure 6 - MET Station

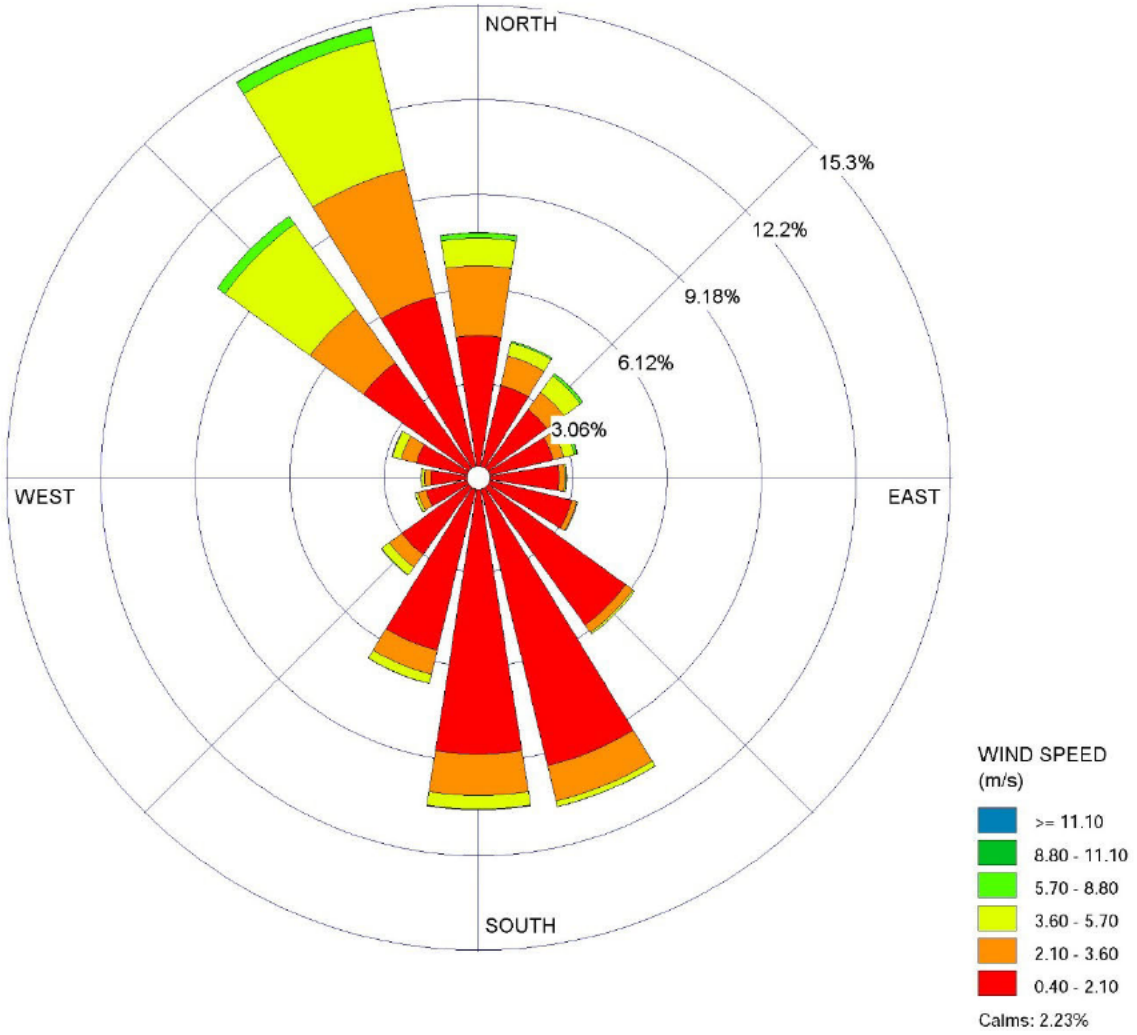


**Figure 7 - Windrose**

6. Model Selection

The air dispersion modeling was done using LAKES AERMOD v12.0.0.. An emission rate of 1 g/s was used to complete the model. A variable density Cartesian Grid of 5 km x 5 km was created with a 5 m receptor spacing between the facility boundary and 200 m, 25 m spacing between 200 m and 500 m, 50 m spacing between 500 m and 1000 m, and 100 m spacing between 1000 m and 2500 m. Receptors were placed on the boundary of the facility with a 20 m spacing.

In Figure 8 below, you will find a map detailing the gridded receptors.

7. Terrain Data

Terrain data were obtained from the United States Geological Survey (USGS), with 1/3 arc-second (~10 meter) National Elevation Dataset (NED) data downloaded. Elevations and hill heights were calculated for all sources and receptors using AERMOD terrain preprocessor, AERMAP.

8. Model Options

No non-regulatory options or deposition was used in the LAKES model. Table 7 below details the options and parameters used in LAKES.

**Table 7 - Model Options**

| LAKES MODEL OPTIONS |
|---|
| AERMOD Version 23132 |
| Model Result Type- Concentration |
| Urban |

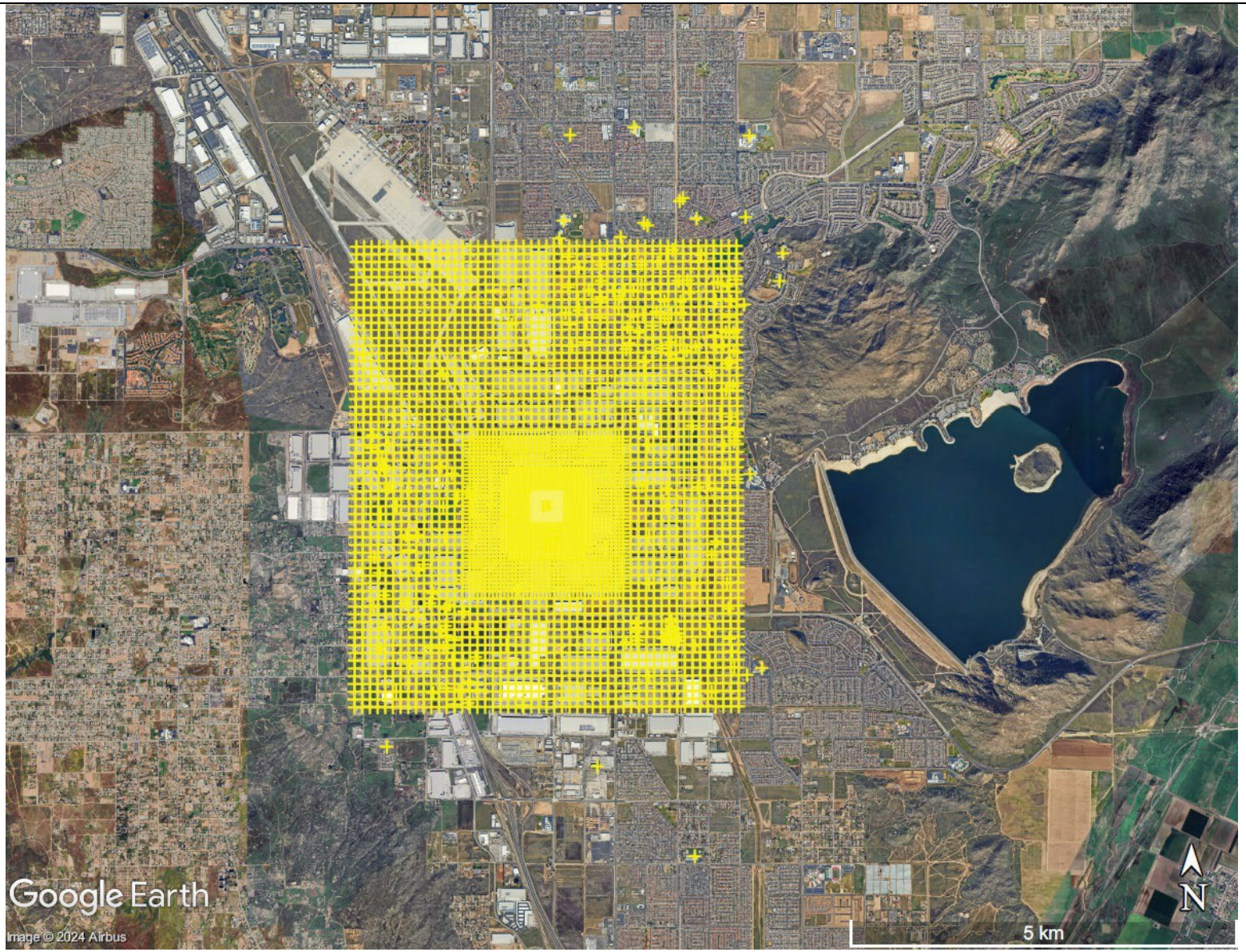


**Figure 8 – Receptor Grid**

9. Air Dispersion Modeling Results The modeling files were provided electronically to the facility.

## C. Health Values Used in Dose-Response and Dose Estimates

Refer to Attachment "C" for the Health Value tables which detail the REL, cancer potency factors, and target organ systems evaluated for the health risk assessment.

## D. Risk Characterization

### 1. HARP2 Modeling Parameters

The HARP 2 model was prepared using Office of Environmental Health Hazard Assessment Air Toxic Hot Spots Program Risk Assessment Guidelines "Guidance Manual for Preparation of Health Risk Assessments", dated February 2015. HARP Version 22118 was used to calculate the health risk for resident and worker. Tables 8, 9, and 10 list the parameters for the residential worker, and acute analysis.

An OEHHA Tier 1 evaluation was completed for all risk scenarios for comparison with South Coast AQMD Rule 1402 thresholds.

**Table 8 – Residential Risk HARP Parameters**

| Cancer Risk 30-year Lifetime Exposure Period |
|---|
| RMP Derived Method |
| Exposure Pathways: Inhalation, Soil, Dermal, Mother's Milk, Homegrown Produce<br>Dermal Climate: Warm<br>Deposition of 0.02 m/s<br>Fraction at Time at Home: 16 years to 70 years enabled<br>Daily Breathing Rates: RMP<br>Tier 1 Analysis Completed for all Pathways |
| Resident Chronic HI Risk |
| OEHHA Derived Method |
| Exposure Pathway: Inhalation, Soil, Dermal, Mother's Milk, Homegrown Produce<br>Dermal Climate: Warm<br>Deposition of 0.02 m/s<br>Fraction at Time at Home: Disabled<br>Daily Breathing Rates: Long Term 24 hr<br>Tier 1 Analysis Completed for all Pathways |

**Table 9– Worker Risk HARP Parameters**

| Cancer Risk 25-year Lifetime Exposure Period |
|---|
| OEHHA Derived Method |
| Worker Exposure Pathways: Inhalation, Soil, Dermal<br>Dermal Climate: Warm<br>Deposition of 0.02 m/s<br>Fraction at Time at Home: Disabled<br>Daily Breathing Rate: 8-hour Moderate Intensity<br>Tier 1 Analysis Completed for all Pathways |
| Worker Chronic HI Risk |
| OEHHA Derived Method |
| Exposure Pathway: Inhalation, Soil, Dermal<br>Dermal Climate: Warm<br>Deposition of 0.02 m/s<br>Fraction at Time at Home: Disabled<br>Daily Breathing Rates: 8-hour Moderate Intensity<br>Tier 1 Analysis Completed for all Pathways |
| Chronic 8-hour HI |
| OEHHA Derived Method |
| Worker Exposure Pathways: Inhalation<br>Dermal Climate: Warm<br>Deposition of 0.02 m/s<br>Fraction of Time at Home: Disabled<br>Daily Breathing Rate: 8-hour Moderate Intensity<br>Tier 1 Analysis Completed for all Pathways |

**Table 10 – Acute Risk HARP Parameters**

| Acute |
|---|
| OEHHA Derived Method |
| Exposure Pathway: Inhalation<br>Daily Breathing Rates: Long Term 24hr<br>Fraction at time at home: Disabled |

2. Summary of Risk Results

Table 11 below detail the results of the HRA.

The HRA determined the facility to be below the Notification and Action Risk Levels for cancer and non-cancer risk scenarios.

A map detailing the location of the Maximum Exposed Cancer Risk for Worker and Residential Receptors can be found in Figure 9.

**Table 11 – Facility Risk Summary**

| Facility Risk Summary | | | |
|---|---|---|---|
| **Facility Name:** | All American Asphalt | | |
| **Facility Location:** | 4770 Indian Ave, Perris, CA 92571 | | |
| **Facility ID:** | 148146 | **Inventory Year:** | 2021 |
| **Cancer Risk (chances in-one-million):** | | | |
| **Maximally exposed individual resident 30-year (MEIR):** | 1.8 | | |
| **Maximally exposed individual worker 25-year (MEIW):** | 5.4 | | |
| **Chronic hazard index (HI):** | | | |
| **Maximally exposed individual resident (MEIR):** | 0.08 | | |
| **Maximally exposed individual worker (MEIW):** | 0.78 | | |
| **Maximally exposed individual worker 8-hr (MEIW):** | 0.13 | | |
| **Acute hazard index** | | | |
| **Maximally exposed individual resident (MEIR):** | 0.04 | | |
| **Maximally exposed individual worker (MEIW):** | 0.43 | | |
| **Point of maximum impact (PMI):** | 0.64 | | |

**Table 12 - Summary of Sensitive Receptor Health Risk Assessment Results**

| Receptor No. | Name | UTM Coordinates | | 30 Year Cancer Risk in a million | Chronic HI | Acute HI |
|---|---|---|---|---|---|---|
| | | X (m) | Y (m) | | | |
| 9463 | Mental Health Urgent Care | 479173.30 | 3744858.50 | 1.2 | 0.05 | 0.01 |


**Figure 9 - Maximum Individual Cancer Risk Locations**

3. Risk Drivers

The following section details the device and listed substances driving the cancer, chronic and acute impacts.

**Table 13 - MEIR Risk Drivers**

| MEIR 30-Year Cancer Risk Summary | | | |
|---|---|---|---|
| **Receptor ID:** | 9346 | **UTM Zone:** | 11 |
| **UTME (m):** | 478773.30 | **UTMN (m):** | 3745158.50 |
| **Total cancer risk (chances in-one-million):** | | 1.8 | |
| **Cancer risk contribution by substance** | | **Pathway** | **Risk (chances in-one-million)** |
| Arsenic | | SOIL, CROP | 0.81 |
| Cobalt | | INHALATION | 0.31 |
| Cadmium | | INHALATION | 0.30 |
| Cr(VI) | | INHALATION, CROP | 0.10 |
| Benzene | | INHALATION | 0.08 |
| Lead | | SOIL, CROP | 0.06 |
| **Cancer risk contribution by device** | | **Risk (% of total)** | **Risk (chances in-one-million)** |
| S0001 (Baghouse Stack Dryer) | | 60% | 1.08 |
| S0015-S0017, S0020-S0025 (Haul Roads) | | 23% | 0.05 |
| S0026 (RAP Pile) | | 9% | 0.16 |

**Table 14 - MEIW Risk Drivers**

| MEIW 25-Year Cancer Risk Summary | | | | |
|---|---|---|---|---|
| **Receptor ID:** | 11084 | **UTM Zone:** | 11 | |
| **UTME (m):** | 478080.9 | **UTMN (m):** | 3746324.7 | |
| **Total cancer risk (chances in-one-million):** | | 5.4 | | |
| **Cancer risk contribution by substance** | | **Pathway** | **Risk (chances in-one-million)** | |
| Cobalt | | INHALATION | 3.62 | |
| Arsenic | | SOIL, DERMAL | 0.86 | |
| Cadmium | | INHALATION | 0.42 | |
| **Cancer risk contribution by device** | | **Risk (% of total)** | **Risk (chances in-one-million)** | |
| S0017-S0021, S0025 (Haul Roads) | | 85% | 2.08 | |
| S0001 (Baghouse Stack Dryer) | | 4% | 0.23 | |

**Table 15 - MEIR Chronic Risk Drivers**

| MEIR Chronic Risk Summary | | | | |
|---|---|---|---|---|
| **Receptor ID:** | 9346 | **UTM Zone:** | 11 | |
| **UTME (m):** | 478773.30 | **UTMN (m):** | 3745158.50 | |
| **Total chronic hazard index:** | | 0.06 | | |
| **Chronic endpoint:** | | Cardiovascular, Central Nervous System, Reproductive /Developmental, Respiratory, Skin | | |
| **Chronic hazard index contribution by substance** | | **HI (% of total)** | **HI** | |
| Arsenic | | 88% | 0.06 | |
| Mercury | | 8.3% | 0.014 | |
| **Chronic hazard index contribution by device** | | **HI (% of total)** | **HI** | |
| S0001 (Baghouse Stack Dryer) | | 76% | 0.06 | |
| S0015, S0016, S0021-S0023(Haul Roads) | | 7% | <0.01 | |
| S0026 (RAP Pile) | | 7% | <0.01 | |

**Table 16 – Chronic Worker Risk Drivers**

| MEIW Chronic Risk Summary | | | |
|---|---|---|---|
| **Receptor ID:** | 11084 | **UTM Zone:** | 11 |
| **UTME (m):** | 478080.9 | **UTMN (m):** | 3746324.7 |
| **Total chronic hazard index:** | 0.78 | | |
| **Chronic endpoint:** | Respiratory | | |
| **Chronic hazard index contribution by substance** | **HI (% of total)** | **HI** | |
| Arsenic | 68% | 0.53 | |
| Chlorine | 13% | 0.10 | |
| Nickel | 11% | 0.09 | |
| **Chronic hazard index contribution by device** | **HI (% of total)** | **HI** | |
| S0018-S0020, S0025 (Haul Roads) | 73% | 0.57 | |
| S0001 (Baghouse Stack Dryer) | 9% | 0.07 | |
| S0011 (AGG HANDLING) | 4% | 0.03 | |
| S0026 (RAP Pile) | 4% | 0.03 | |

**Table 17 - MEIW Chronic Risk Drivers**

| MEIW 8-Hour Chronic Risk Summary | | | |
|---|---|---|---|
| **Receptor ID:** | 11084 | **UTM Zone:** | 11 |
| **UTME (m):** | 478080.9 | **UTMN (m):** | 3746324.7 |
| **Total chronic hazard index:** | 0.13 | | |
| **Chronic endpoint:** | Central Nervous System | | |
| **Chronic hazard index contribution by substance** | **HI (% of total)** | **HI** | |
| Manganese | 78% | 0.10 | |
| Arsenic | 14% | 0.02 | |
| **Chronic hazard index contribution by device** | **HI (% of total)** | **HI** | |
| S0018-S0020, S0025 (Haul Roads) | 79% | 0.10 | |
| S0001 (Baghouse Stack Dryer) | 9% | 0.01 | |
| S0028 (Brakleen Welding Portable Engine) | 2% | <0.01 | |

**Table 18 - PMI Acute Risk Drivers**

| PMI Acute Risk Summary | | | |
|---|---|---|---|
| **Receptor ID:** | 11047 | **UTM Zone:** | 11 |
| **UTME (m):** | 478241.00 | **UTMN (m):** | 3746334.50 |
| **Total acute hazard index:** | | 0.64 | |
| **Acute endpoint:** | | Immune | |
| **Acute hazard index contribution by substance** | | **HI (% of total)** | **HI** |
| Nickel | | 98% | 0.62 |
| **Acute hazard index contribution by device** | | **HI (% of total)** | **HI** |
| S0026 (RAP Pile) | | 46% | 0.29 |
| S0015-S0017, S0022-S0024 (Haul Roads) | | 34% | 0.22 |
| S0001 (Baghouse Stack Dryer) | | 12% | 0.08 |

4. Cancer Burden

The cancer burden within the residential 70-yr cancer Zone of Impact (ZOI) was evaluated utilizing the data from the updated model by South Coast AQMD staff. The new cancer burden calculation includes only census receptors that were within the ZOI.

The ZOI area resulted in a Cancer Burden that was well below the Rule 1402 threshold of 0.5.

# ATTACHMENT "A"

# SUMMARY TABLES

TAYLOR ENVIRONMENTAL SERVICES, INC.

All American Asphalt
Perris 2021 HRA
Table 1: Toxic Emissions by Source

| Source ID | Device ID | Process ID | CAS | Pollutant Name | Annual Emissions (lbs/yr) | Hourly Emissions (lbs/hr) |
|---|---|---|---|---|---|---|
| S0001 | 12 | 1 | 107028 | Acrolein | 7.894E-02 | 4.563E-05 |
| S0001 | 12 | 1 | 7664417 | NH3 | 3.158E+02 | 1.825E-01 |
| S0001 | 12 | 2 | 71556 | 1,1,1-TCA | 1.549E+00 | 8.957E-04 |
| S0001 | 12 | 2 | 540841 | 2,2,4TriMePentn | 1.771E+01 | 1.024E-02 |
| S0001 | 12 | 2 | 91576 | 2MeNaphthalene | 3.276E+01 | 1.894E-02 |
| S0001 | 12 | 2 | 83329 | Acenaphthene | 5.445E-01 | 3.148E-04 |
| S0001 | 12 | 2 | 208968 | Acenaphthylene | 4.693E+00 | 2.713E-03 |
| S0001 | 12 | 2 | 75070 | Acetaldehyde | 2.829E+01 | 1.635E-02 |
| S0001 | 12 | 2 | 120127 | Anthracene | 4.281E-01 | 2.475E-04 |
| S0001 | 12 | 2 | 7440360 | Antimony | 7.969E-02 | 4.606E-05 |
| S0001 | 12 | 2 | 7440382 | Arsenic | 8.854E-01 | 5.118E-04 |
| S0001 | 12 | 2 | 56553 | B[a]anthracene | 6.951E-03 | 4.018E-06 |
| S0001 | 12 | 2 | 50328 | B[a]P | 7.216E-04 | 4.171E-07 |
| S0001 | 12 | 2 | 205992 | B[b]fluoranthen | 1.651E-03 | 9.545E-07 |
| S0001 | 12 | 2 | 192972 | B[e]pyrene | 1.833E-03 | 1.059E-06 |
| S0001 | 12 | 2 | 191242 | B[g,h,i]perylen | 9.031E-04 | 5.220E-07 |
| S0001 | 12 | 2 | 207089 | B[k]fluoranthen | 1.930E-03 | 1.116E-06 |
| S0001 | 12 | 2 | 7440393 | Barium | 2.568E+00 | 1.484E-03 |
| S0001 | 12 | 2 | 71432 | Benzene | 1.469E+02 | 8.491E-02 |
| S0001 | 12 | 2 | 7440417 | Beryllium | 8.854E-01 | 5.118E-04 |
| S0001 | 12 | 2 | 7440439 | Cadmium | 3.537E+00 | 2.045E-03 |
| S0001 | 12 | 2 | 7440473 | Chromium | 6.862E-01 | 3.967E-04 |
| S0001 | 12 | 2 | 218019 | Chrysene | 1.426E-03 | 8.240E-07 |
| S0001 | 12 | 2 | 7440484 | Cobalt | 1.151E-02 | 6.653E-06 |
| S0001 | 12 | 2 | 7440508 | Copper | 2.160E+00 | 1.249E-03 |
| S0001 | 12 | 2 | 18540299 | Cr(VI) | 1.700E-03 | 9.827E-07 |
| S0001 | 12 | 2 | 53703 | D[a,h]anthracen | 7.836E-04 | 4.529E-07 |
| S0001 | 12 | 2 | 100414 | Ethyl Benzene | 1.479E+01 | 8.547E-03 |
| S0001 | 12 | 2 | 206440 | Fluoranthene | 1.594E+00 | 9.213E-04 |
| S0001 | 12 | 2 | 86737 | Fluorene | 1.173E+00 | 6.781E-04 |
| S0001 | 12 | 2 | 50000 | Formaldehyde | 3.481E+02 | 2.012E-01 |
| S0001 | 12 | 2 | 7783064 | H2S | 3.961E+02 | 2.290E-01 |
| S0001 | 12 | 2 | 110543 | Hexane | 4.073E+02 | 2.354E-01 |
| S0001 | 12 | 2 | 193395 | In[1,2,3-cd]pyr | 9.651E-04 | 5.579E-07 |
| S0001 | 12 | 2 | 7439921 | Lead | 9.297E+00 | 5.374E-03 |
| S0001 | 12 | 2 | 7439965 | Manganese | 1.975E+01 | 1.141E-02 |
| S0001 | 12 | 2 | 7439976 | Mercury | 1.355E+01 | 7.831E-03 |
| S0001 | 12 | 2 | 91203 | Naphthalene | 2.860E+01 | 1.653E-02 |
| S0001 | 12 | 2 | 7440020 | Nickel | 4.516E+00 | 2.610E-03 |
| S0001 | 12 | 2 | 198550 | Perylene | 3.896E-03 | 2.252E-06 |
| S0001 | 12 | 2 | 85018 | Phenanthrene | 3.431E+00 | 1.983E-03 |
| S0001 | 12 | 2 | 7723140 | Phosphorus | 1.240E+01 | 7.165E-03 |
| S0001 | 12 | 2 | 129000 | Pyrene | 3.117E+00 | 1.802E-03 |
| S0001 | 12 | 2 | 7782492 | Selenium | 8.810E-01 | 5.092E-04 |
| S0001 | 12 | 2 | 7440224 | Silver | 2.125E-01 | 1.228E-04 |
| S0001 | 12 | 2 | 7440280 | Thallium | 1.815E-03 | 1.049E-06 |
| S0001 | 12 | 2 | 108883 | Toluene | 2.351E+01 | 1.359E-02 |
| S0001 | 12 | 2 | 1330207 | Xylenes | 2.338E+01 | 1.351E-02 |
| S0001 | 12 | 2 | 7440666 | Zinc | 1.133E+01 | 6.551E-03 |
| S0002 | 12 | 3 | 91576 | 2MeNaphthalene | 5.926E-01 | 3.425E-04 |
| S0002 | 12 | 3 | 83329 | Acenaphthene | 5.285E-02 | 3.055E-05 |
| S0002 | 12 | 3 | 208968 | Acenaphthylene | 1.574E-03 | 9.100E-07 |
| S0002 | 12 | 3 | 120127 | Anthracene | 1.462E-02 | 8.450E-06 |
| S0002 | 12 | 3 | 56553 | B[a]anthracene | 6.297E-03 | 3.640E-06 |
| S0002 | 12 | 3 | 192972 | B[e]pyrene | 1.068E-03 | 6.175E-07 |
| S0002 | 12 | 3 | 71432 | Benzene | 1.726E+00 | 9.979E-04 |

| | | | | | | |
|---|---|---|---|---|---|---|
| S0002 | 12 | 3 | 218019 | Chrysene | 2.361E-02 | 1.365E-05 |
| S0002 | 12 | 3 | 100414 | Ethyl Benzene | 2.050E+00 | 1.185E-03 |
| S0002 | 12 | 3 | 206440 | Fluoranthene | 1.687E-02 | 9.750E-06 |
| S0002 | 12 | 3 | 86737 | Fluorene | 1.136E-01 | 6.565E-05 |
| S0002 | 12 | 3 | 50000 | Formaldehyde | 3.722E+01 | 2.152E-02 |
| S0002 | 12 | 3 | 110543 | Hexane | 5.395E+00 | 3.118E-03 |
| S0002 | 12 | 3 | 91203 | Naphthalene | 2.047E-01 | 1.183E-04 |
| S0002 | 12 | 3 | 95476 | o-Xylene | 3.075E+00 | 1.778E-03 |
| S0002 | 12 | 3 | 198550 | Perylene | 3.373E-03 | 1.950E-06 |
| S0002 | 12 | 3 | 85018 | Phenanthrene | 2.024E-01 | 1.170E-04 |
| S0002 | 12 | 3 | 129000 | Pyrene | 4.948E-02 | 2.860E-05 |
| S0002 | 12 | 3 | 100425 | Styrene | 2.913E-01 | 1.684E-04 |
| S0002 | 12 | 3 | 108883 | Toluene | 3.345E+00 | 1.933E-03 |
| S0002 | 12 | 3 | 1330207 | Xylenes | 1.079E+01 | 6.237E-03 |
| S0002 | 12 | 4 | 91576 | 2MeNaphthalene | 3.592E-01 | 2.076E-04 |
| S0002 | 12 | 4 | 83329 | Acenaphthene | 3.924E-02 | 2.268E-05 |
| S0002 | 12 | 4 | 208968 | Acenaphthylene | 4.226E-03 | 2.443E-06 |
| S0002 | 12 | 4 | 120127 | Anthracene | 1.057E-02 | 6.107E-06 |
| S0002 | 12 | 4 | 56553 | B[a]anthracene | 2.868E-03 | 1.658E-06 |
| S0002 | 12 | 4 | 50328 | B[a]P | 3.472E-04 | 2.007E-07 |
| S0002 | 12 | 4 | 205992 | B[b]fluoranthen | 1.147E-03 | 6.631E-07 |
| S0002 | 12 | 4 | 192972 | B[e]pyrene | 1.177E-03 | 6.805E-07 |
| S0002 | 12 | 4 | 191242 | B[g,h,i]perylen | 2.868E-04 | 1.658E-07 |
| S0002 | 12 | 4 | 207089 | B[k]fluoranthen | 3.321E-04 | 1.919E-07 |
| S0002 | 12 | 4 | 71432 | Benzene | 9.574E-01 | 5.534E-04 |
| S0002 | 12 | 4 | 218019 | Chrysene | 1.555E-02 | 8.986E-06 |
| S0002 | 12 | 4 | 53703 | D[a,h]anthracen | 5.585E-05 | 3.228E-08 |
| S0002 | 12 | 4 | 100414 | Ethyl Benzene | 5.155E+00 | 2.980E-03 |
| S0002 | 12 | 4 | 206440 | Fluoranthene | 7.547E-03 | 4.362E-06 |
| S0002 | 12 | 4 | 86737 | Fluorene | 1.162E-01 | 6.718E-05 |
| S0002 | 12 | 4 | 50000 | Formaldehyde | 1.620E+00 | 9.366E-04 |
| S0002 | 12 | 4 | 110543 | Hexane | 2.762E+00 | 1.596E-03 |
| S0002 | 12 | 4 | 193395 | In[1,2,3-cd]pyr | 7.094E-05 | 4.101E-08 |
| S0002 | 12 | 4 | 91203 | Naphthalene | 1.887E-01 | 1.091E-04 |
| S0002 | 12 | 4 | 95476 | o-Xylene | 1.207E-01 | 6.980E-05 |
| S0002 | 12 | 4 | 198550 | Perylene | 3.321E-03 | 1.919E-06 |
| S0002 | 12 | 4 | 85018 | Phenanthrene | 1.223E-01 | 7.067E-05 |
| S0002 | 12 | 4 | 129000 | Pyrene | 2.264E-02 | 1.309E-05 |
| S0002 | 12 | 4 | 100425 | Styrene | 1.344E-01 | 7.769E-05 |
| S0002 | 12 | 4 | 108883 | Toluene | 3.867E+00 | 2.235E-03 |
| S0002 | 12 | 4 | 75694 | TriClFluorMetha | 2.394E-02 | 1.384E-05 |
| S0002 | 12 | 4 | 1330207 | Xylenes | 6.188E-01 | 3.577E-04 |
| S0003 | 7 | 1 | 75070 | Acetaldehyde | 1.401E-02 | 1.599E-06 |
| S0003 | 7 | 1 | 107028 | Acrolein | 8.794E-03 | 1.004E-06 |
| S0003 | 7 | 1 | 71432 | Benzene | 2.606E-02 | 2.975E-06 |
| S0003 | 7 | 1 | 100414 | Ethyl Benzene | 3.094E-02 | 3.532E-06 |
| S0003 | 7 | 1 | 50000 | Formaldehyde | 5.537E-02 | 6.321E-06 |
| S0003 | 7 | 1 | 110543 | Hexane | 2.052E-02 | 2.343E-06 |
| S0003 | 7 | 1 | 91203 | Naphthalene | 9.772E-04 | 1.115E-07 |
| S0003 | 7 | 1 | 7664417 | NH3 | 1.042E+01 | 1.190E-03 |
| S0003 | 7 | 1 | 1151 | PAHs-w/o | 3.257E-04 | 3.718E-08 |
| S0003 | 7 | 1 | 108883 | Toluene | 1.192E-01 | 1.361E-05 |
| S0003 | 7 | 1 | 1330207 | Xylenes | 8.860E-02 | 1.011E-05 |
| S0004 | 9 | 1 | 75070 | Acetaldehyde | 2.692E-02 | 3.073E-06 |
| S0004 | 9 | 1 | 107028 | Acrolein | 1.690E-02 | 1.929E-06 |
| S0004 | 9 | 1 | 71432 | Benzene | 5.008E-02 | 5.717E-06 |
| S0004 | 9 | 1 | 100414 | Ethyl Benzene | 5.947E-02 | 6.789E-06 |
| S0004 | 9 | 1 | 50000 | Formaldehyde | 1.064E-01 | 1.215E-05 |
| S0004 | 9 | 1 | 110543 | Hexane | 3.944E-02 | 4.502E-06 |
| S0004 | 9 | 1 | 91203 | Naphthalene | 1.878E-03 | 2.144E-07 |

| | | | | | | |
|---|---|---|---|---|---|---|
| S0004 | 9 | 1 | 7664417 | NH3 | 2.003E+01 | 2.287E-03 |
| S0004 | 9 | 1 | 1151 | PAHs-w/o | 6.260E-04 | 7.146E-08 |
| S0004 | 9 | 1 | 108883 | Toluene | 2.291E-01 | 2.615E-05 |
| S0004 | 9 | 1 | 1330207 | Xylenes | 1.703E-01 | 1.944E-05 |
| S0005 | 15 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0005 | 15 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0005 | 15 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0005 | 15 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |
| S0005 | 15 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0005 | 15 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0005 | 15 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0005 | 15 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0005 | 15 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0005 | 15 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0005 | 15 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0005 | 15 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |
| S0005 | 15 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |
| S0005 | 15 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0005 | 15 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0005 | 15 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0005 | 15 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0005 | 15 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0005 | 15 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0005 | 15 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0005 | 15 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0005 | 15 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0005 | 15 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0005 | 15 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0005 | 15 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0005 | 15 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0006 | 16 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0006 | 16 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0006 | 16 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0006 | 16 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |
| S0006 | 16 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0006 | 16 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0006 | 16 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0006 | 16 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0006 | 16 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0006 | 16 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0006 | 16 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0006 | 16 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |
| S0006 | 16 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |
| S0006 | 16 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0006 | 16 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0006 | 16 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0006 | 16 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0006 | 16 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0006 | 16 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0006 | 16 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0006 | 16 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0006 | 16 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0006 | 16 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0006 | 16 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0006 | 16 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0006 | 16 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0007 | 17 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0007 | 17 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0007 | 17 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0007 | 17 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |

| | | | | | | |
|---|---|---|---|---|---|---|
| S0007 | 17 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0007 | 17 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0007 | 17 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0007 | 17 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0007 | 17 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0007 | 17 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0007 | 17 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0007 | 17 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |
| S0007 | 17 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |
| S0007 | 17 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0007 | 17 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0007 | 17 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0007 | 17 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0007 | 17 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0007 | 17 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0007 | 17 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0007 | 17 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0007 | 17 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0007 | 17 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0007 | 17 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0007 | 17 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0007 | 17 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0008 | 18 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0008 | 18 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0008 | 18 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0008 | 18 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |
| S0008 | 18 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0008 | 18 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0008 | 18 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0008 | 18 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0008 | 18 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0008 | 18 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0008 | 18 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0008 | 18 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |
| S0008 | 18 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |
| S0008 | 18 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0008 | 18 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0008 | 18 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0008 | 18 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0008 | 18 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0008 | 18 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0008 | 18 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0008 | 18 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0008 | 18 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0008 | 18 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0008 | 18 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0008 | 18 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0008 | 18 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0009 | 19 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0009 | 19 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0009 | 19 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0009 | 19 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |
| S0009 | 19 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0009 | 19 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0009 | 19 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0009 | 19 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0009 | 19 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0009 | 19 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0009 | 19 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0009 | 19 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |

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|---|---|---|---|---|---|---|
| S0009 | 19 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |
| S0009 | 19 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0009 | 19 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0009 | 19 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0009 | 19 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0009 | 19 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0009 | 19 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0009 | 19 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0009 | 19 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0009 | 19 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0009 | 19 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0009 | 19 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0009 | 19 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0009 | 19 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0010 | 20 | 1 | 91576 | 2MeNaphthalene | 1.233E+00 | 7.130E-04 |
| S0010 | 20 | 1 | 83329 | Acenaphthene | 1.100E-01 | 6.359E-05 |
| S0010 | 20 | 1 | 208968 | Acenaphthylene | 3.277E-03 | 1.894E-06 |
| S0010 | 20 | 1 | 120127 | Anthracene | 3.043E-02 | 1.759E-05 |
| S0010 | 20 | 1 | 56553 | B[a]anthracene | 1.311E-02 | 7.576E-06 |
| S0010 | 20 | 1 | 192972 | B[e]pyrene | 2.223E-03 | 1.285E-06 |
| S0010 | 20 | 1 | 71432 | Benzene | 2.655E-01 | 1.535E-04 |
| S0010 | 20 | 1 | 218019 | Chrysene | 4.915E-02 | 2.841E-05 |
| S0010 | 20 | 1 | 75150 | CS2 | 1.328E-01 | 7.674E-05 |
| S0010 | 20 | 1 | 100414 | Ethyl Benzene | 3.153E-01 | 1.823E-04 |
| S0010 | 20 | 1 | 75003 | Ethyl Chloride | 3.319E-02 | 1.919E-05 |
| S0010 | 20 | 1 | 206440 | Fluoranthene | 3.511E-02 | 2.029E-05 |
| S0010 | 20 | 1 | 86737 | Fluorene | 2.364E-01 | 1.366E-04 |
| S0010 | 20 | 1 | 50000 | Formaldehyde | 5.726E+00 | 3.310E-03 |
| S0010 | 20 | 1 | 110543 | Hexane | 8.298E-01 | 4.797E-04 |
| S0010 | 20 | 1 | 78933 | MEK | 3.236E-01 | 1.871E-04 |
| S0010 | 20 | 1 | 74839 | Methyl Bromide | 4.066E-02 | 2.350E-05 |
| S0010 | 20 | 1 | 75092 | Methylene Chlor | 2.240E-03 | 1.295E-06 |
| S0010 | 20 | 1 | 91203 | Naphthalene | 4.260E-01 | 2.462E-04 |
| S0010 | 20 | 1 | 95476 | o-Xylene | 4.730E-01 | 2.734E-04 |
| S0010 | 20 | 1 | 198550 | Perylene | 7.021E-03 | 4.059E-06 |
| S0010 | 20 | 1 | 85018 | Phenanthrene | 4.213E-01 | 2.435E-04 |
| S0010 | 20 | 1 | 129000 | Pyrene | 1.030E-01 | 5.953E-05 |
| S0010 | 20 | 1 | 100425 | Styrene | 4.481E-02 | 2.590E-05 |
| S0010 | 20 | 1 | 108883 | Toluene | 5.145E-01 | 2.974E-04 |
| S0010 | 20 | 1 | 1330207 | Xylenes | 1.660E+00 | 9.593E-04 |
| S0010 | 27 | 1 | 91576 | 2MeNaphthalene | 2.825E-01 | 1.633E-04 |
| S0010 | 27 | 1 | 83329 | Acenaphthene | 2.519E-02 | 1.456E-05 |
| S0010 | 27 | 1 | 208968 | Acenaphthylene | 7.504E-04 | 4.338E-07 |
| S0010 | 27 | 1 | 120127 | Anthracene | 6.968E-03 | 4.028E-06 |
| S0010 | 27 | 1 | 56553 | B[a]anthracene | 3.002E-03 | 1.735E-06 |
| S0010 | 27 | 1 | 192972 | B[e]pyrene | 5.092E-04 | 2.944E-07 |
| S0010 | 27 | 1 | 71432 | Benzene | 6.082E-02 | 3.515E-05 |
| S0010 | 27 | 1 | 218019 | Chrysene | 1.126E-02 | 6.507E-06 |
| S0010 | 27 | 1 | 75150 | CS2 | 3.041E-02 | 1.758E-05 |
| S0010 | 27 | 1 | 100414 | Ethyl Benzene | 7.222E-02 | 4.174E-05 |
| S0010 | 27 | 1 | 75003 | Ethyl Chloride | 7.602E-03 | 4.394E-06 |
| S0010 | 27 | 1 | 206440 | Fluoranthene | 8.040E-03 | 4.648E-06 |
| S0010 | 27 | 1 | 86737 | Fluorene | 5.414E-02 | 3.129E-05 |
| S0010 | 27 | 1 | 50000 | Formaldehyde | 1.311E+00 | 7.580E-04 |
| S0010 | 27 | 1 | 110543 | Hexane | 1.900E-01 | 1.099E-04 |
| S0010 | 27 | 1 | 78933 | MEK | 7.412E-02 | 4.284E-05 |
| S0010 | 27 | 1 | 74839 | Methyl Bromide | 9.312E-03 | 5.383E-06 |
| S0010 | 27 | 1 | 75092 | Methylene Chlor | 5.131E-04 | 2.966E-07 |
| S0010 | 27 | 1 | 91203 | Naphthalene | 9.756E-02 | 5.639E-05 |
| S0010 | 27 | 1 | 95476 | o-Xylene | 1.083E-01 | 6.262E-05 |

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|---|---|---|---|---|---|---|
| S0010 | 27 | 1 | 198550 | Perylene | 1.608E-03 | 9.295E-07 |
| S0010 | 27 | 1 | 85018 | Phenanthrene | 9.649E-02 | 5.577E-05 |
| S0010 | 27 | 1 | 129000 | Pyrene | 2.359E-02 | 1.363E-05 |
| S0010 | 27 | 1 | 100425 | Styrene | 1.026E-02 | 5.932E-06 |
| S0010 | 27 | 1 | 108883 | Toluene | 1.178E-01 | 6.811E-05 |
| S0010 | 27 | 1 | 1330207 | Xylenes | 3.801E-01 | 2.197E-04 |
| S0011 | 11 | 1 | 7440382 | Arsenic | 1.504E-04 | 8.696E-08 |
| S0011 | 11 | 1 | 7440393 | Barium | 1.864E-03 | 1.077E-06 |
| S0011 | 11 | 1 | 7440417 | Beryllium | 6.961E-06 | 4.024E-09 |
| S0011 | 11 | 1 | 7440439 | Cadmium | 1.774E-05 | 1.025E-08 |
| S0011 | 11 | 1 | 7440473 | Chromium | 7.410E-04 | 4.283E-07 |
| S0011 | 11 | 1 | 7440484 | Cobalt | 1.841E-04 | 1.064E-07 |
| S0011 | 11 | 1 | 7440508 | Copper | 7.410E-04 | 4.283E-07 |
| S0011 | 11 | 1 | 18540299 | Cr(VI) | 2.245E-05 | 1.298E-08 |
| S0011 | 11 | 1 | 7439921 | Lead | 5.614E-04 | 3.245E-07 |
| S0011 | 11 | 1 | 7440020 | Nickel | 6.512E-04 | 3.764E-07 |
| S0011 | 11 | 1 | 1175 | Silica, Crystln | 5.134E-01 | 2.968E-04 |
| S0011 | 11 | 1 | 7440622 | Vanadium | 1.190E-03 | 6.879E-07 |
| S0011 | 11 | 1 | 7440666 | Zinc | 1.729E-03 | 9.994E-07 |
| S0011 | 11 | 2 | 7440382 | Arsenic | 1.053E-03 | 6.087E-07 |
| S0011 | 11 | 2 | 7440393 | Barium | 1.305E-02 | 7.541E-06 |
| S0011 | 11 | 2 | 7440417 | Beryllium | 4.873E-05 | 2.817E-08 |
| S0011 | 11 | 2 | 7440439 | Cadmium | 1.242E-04 | 7.178E-08 |
| S0011 | 11 | 2 | 7440473 | Chromium | 5.187E-03 | 2.998E-06 |
| S0011 | 11 | 2 | 7440484 | Cobalt | 1.289E-03 | 7.450E-07 |
| S0011 | 11 | 2 | 7440508 | Copper | 5.187E-03 | 2.998E-06 |
| S0011 | 11 | 2 | 18540299 | Cr(VI) | 1.572E-04 | 9.086E-08 |
| S0011 | 11 | 2 | 7439921 | Lead | 3.930E-03 | 2.271E-06 |
| S0011 | 11 | 2 | 7440020 | Nickel | 4.558E-03 | 2.635E-06 |
| S0011 | 11 | 2 | 1175 | Silica, Crystln | 3.594E+00 | 2.077E-03 |
| S0011 | 11 | 2 | 7440622 | Vanadium | 8.331E-03 | 4.815E-06 |
| S0011 | 11 | 2 | 7440666 | Zinc | 1.210E-02 | 6.996E-06 |
| S0011 | 11 | 3 | 7440382 | Arsenic | 1.672E-05 | 9.663E-09 |
| S0011 | 11 | 3 | 7440393 | Barium | 2.071E-04 | 1.197E-07 |
| S0011 | 11 | 3 | 7440417 | Beryllium | 7.734E-07 | 4.471E-10 |
| S0011 | 11 | 3 | 7440439 | Cadmium | 1.971E-06 | 1.139E-09 |
| S0011 | 11 | 3 | 7440473 | Chromium | 8.233E-05 | 4.759E-08 |
| S0011 | 11 | 3 | 7440484 | Cobalt | 2.046E-05 | 1.183E-08 |
| S0011 | 11 | 3 | 7440508 | Copper | 8.233E-05 | 4.759E-08 |
| S0011 | 11 | 3 | 18540299 | Cr(VI) | 2.495E-06 | 1.442E-09 |
| S0011 | 11 | 3 | 7439921 | Lead | 6.237E-05 | 3.605E-08 |
| S0011 | 11 | 3 | 7440020 | Nickel | 7.235E-05 | 4.182E-08 |
| S0011 | 11 | 3 | 1175 | Silica, Crystln | 5.704E-02 | 3.297E-05 |
| S0011 | 11 | 3 | 7440622 | Vanadium | 1.322E-04 | 7.644E-08 |
| S0011 | 11 | 3 | 7440666 | Zinc | 1.921E-04 | 1.110E-07 |
| S0011 | 12 | 6 | 7440382 | Arsenic | 8.131E-04 | 4.700E-07 |
| S0011 | 12 | 6 | 7440393 | Barium | 5.375E-03 | 3.107E-06 |
| S0011 | 12 | 6 | 7440417 | Beryllium | 4.969E-05 | 2.872E-08 |
| S0011 | 12 | 6 | 7440439 | Cadmium | 8.658E-05 | 5.004E-08 |
| S0011 | 12 | 6 | 7440473 | Chromium | 6.173E-03 | 3.568E-06 |
| S0011 | 12 | 6 | 7440484 | Cobalt | 1.882E-03 | 1.088E-06 |
| S0011 | 12 | 6 | 7440508 | Copper | 5.646E-03 | 3.264E-06 |
| S0011 | 12 | 6 | 18540299 | Cr(VI) | 1.024E-04 | 5.918E-08 |
| S0011 | 12 | 6 | 7439921 | Lead | 2.635E-03 | 1.523E-06 |
| S0011 | 12 | 6 | 7439976 | Mercury | 8.432E-06 | 4.874E-09 |
| S0011 | 12 | 6 | 7440020 | Nickel | 2.710E-03 | 1.567E-06 |
| S0011 | 12 | 6 | 1175 | Silica, Crystln | 3.442E+00 | 1.990E-03 |
| S0011 | 12 | 6 | 7440622 | Vanadium | 1.137E-02 | 6.571E-06 |
| S0011 | 12 | 6 | 7440666 | Zinc | 3.125E-02 | 1.806E-05 |
| S0011 | 12 | 8 | 7440382 | Arsenic | 3.194E-03 | 1.846E-06 |

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|---|---|---|---|---|---|---|
| S0011 | 12 | 8 | 7440393 | Barium | 2.112E-02 | 1.221E-05 |
| S0011 | 12 | 8 | 7440417 | Beryllium | 1.952E-04 | 1.128E-07 |
| S0011 | 12 | 8 | 7440439 | Cadmium | 3.401E-04 | 1.966E-07 |
| S0011 | 12 | 8 | 7440473 | Chromium | 2.425E-02 | 1.402E-05 |
| S0011 | 12 | 8 | 7440484 | Cobalt | 7.394E-03 | 4.274E-06 |
| S0011 | 12 | 8 | 7440508 | Copper | 2.218E-02 | 1.282E-05 |
| S0011 | 12 | 8 | 18540299 | Cr(VI) | 4.022E-04 | 2.325E-07 |
| S0011 | 12 | 8 | 7439921 | Lead | 1.035E-02 | 5.984E-06 |
| S0011 | 12 | 8 | 7439976 | Mercury | 3.312E-05 | 1.915E-08 |
| S0011 | 12 | 8 | 7440020 | Nickel | 1.065E-02 | 6.155E-06 |
| S0011 | 12 | 8 | 1175 | Silica, Crystln | 1.352E+01 | 7.817E-03 |
| S0011 | 12 | 8 | 7440622 | Vanadium | 4.466E-02 | 2.581E-05 |
| S0011 | 12 | 8 | 7440666 | Zinc | 1.863E-01 | 1.077E-04 |
| S0011 | 13 | 1 | 7440382 | Arsenic | 4.065E-04 | 2.350E-07 |
| S0011 | 13 | 1 | 7440393 | Barium | 2.688E-03 | 1.554E-06 |
| S0011 | 13 | 1 | 7440417 | Beryllium | 2.484E-05 | 1.436E-08 |
| S0011 | 13 | 1 | 7440439 | Cadmium | 4.329E-05 | 2.502E-08 |
| S0011 | 13 | 1 | 7440473 | Chromium | 3.087E-03 | 1.784E-06 |
| S0011 | 13 | 1 | 7440484 | Cobalt | 9.410E-04 | 5.440E-07 |
| S0011 | 13 | 1 | 7440508 | Copper | 2.823E-03 | 1.632E-06 |
| S0011 | 13 | 1 | 18540299 | Cr(VI) | 5.119E-05 | 2.959E-08 |
| S0011 | 13 | 1 | 7439921 | Lead | 1.317E-03 | 7.615E-07 |
| S0011 | 13 | 1 | 7439976 | Mercury | 4.216E-06 | 2.437E-09 |
| S0011 | 13 | 1 | 7440020 | Nickel | 1.355E-03 | 7.833E-07 |
| S0011 | 13 | 1 | 1175 | Silica, Crystln | 1.721E+00 | 9.949E-04 |
| S0011 | 13 | 1 | 7440622 | Vanadium | 5.684E-03 | 3.286E-06 |
| S0011 | 13 | 1 | 7440666 | Zinc | 2.371E-02 | 1.371E-05 |
| S0011 | 13 | 2 | 7440382 | Arsenic | 2.033E-04 | 1.175E-07 |
| S0011 | 13 | 2 | 7440393 | Barium | 1.344E-03 | 7.768E-07 |
| S0011 | 13 | 2 | 7440417 | Beryllium | 1.242E-05 | 7.180E-09 |
| S0011 | 13 | 2 | 7440439 | Cadmium | 2.164E-05 | 1.251E-08 |
| S0011 | 13 | 2 | 7440473 | Chromium | 1.543E-03 | 8.921E-07 |
| S0011 | 13 | 2 | 7440484 | Cobalt | 4.235E-04 | 2.448E-07 |
| S0011 | 13 | 2 | 7440508 | Copper | 1.412E-03 | 8.159E-07 |
| S0011 | 13 | 2 | 18540299 | Cr(VI) | 2.560E-05 | 1.480E-08 |
| S0011 | 13 | 2 | 7439921 | Lead | 6.587E-04 | 3.808E-07 |
| S0011 | 13 | 2 | 7439976 | Mercury | 2.108E-06 | 1.218E-09 |
| S0011 | 13 | 2 | 7440020 | Nickel | 6.776E-04 | 3.917E-07 |
| S0011 | 13 | 2 | 1175 | Silica, Crystln | 8.606E-01 | 4.975E-04 |
| S0011 | 13 | 2 | 7440622 | Vanadium | 2.737E-03 | 1.582E-06 |
| S0011 | 13 | 2 | 7440666 | Zinc | 3.977E-03 | 2.299E-06 |
| S0011 | 13 | 3 | 7440382 | Arsenic | 2.033E-04 | 1.175E-07 |
| S0011 | 13 | 3 | 7440393 | Barium | 1.344E-03 | 7.768E-07 |
| S0011 | 13 | 3 | 7440417 | Beryllium | 1.242E-05 | 7.180E-09 |
| S0011 | 13 | 3 | 7440439 | Cadmium | 2.164E-05 | 1.251E-08 |
| S0011 | 13 | 3 | 7440473 | Chromium | 1.543E-03 | 8.921E-07 |
| S0011 | 13 | 3 | 7440484 | Cobalt | 4.705E-04 | 2.720E-07 |
| S0011 | 13 | 3 | 7440508 | Copper | 1.412E-03 | 8.159E-07 |
| S0011 | 13 | 3 | 18540299 | Cr(VI) | 2.560E-05 | 1.480E-08 |
| S0011 | 13 | 3 | 7439921 | Lead | 6.587E-04 | 3.808E-07 |
| S0011 | 13 | 3 | 7439976 | Mercury | 2.108E-06 | 1.218E-09 |
| S0011 | 13 | 3 | 7440020 | Nickel | 6.776E-04 | 3.917E-07 |
| S0011 | 13 | 3 | 1175 | Silica, Crystln | 8.606E-01 | 4.975E-04 |
| S0011 | 13 | 3 | 7440622 | Vanadium | 2.842E-03 | 1.643E-06 |
| S0011 | 13 | 3 | 7440666 | Zinc | 1.186E-02 | 6.854E-06 |
| S0011 | 28 | 1 | 7440382 | Arsenic | 1.504E-04 | 8.696E-08 |
| S0011 | 28 | 1 | 7440393 | Barium | 1.864E-03 | 1.077E-06 |
| S0011 | 28 | 1 | 7440417 | Beryllium | 6.961E-06 | 4.024E-09 |
| S0011 | 28 | 1 | 7440439 | Cadmium | 1.774E-05 | 1.025E-08 |
| S0011 | 28 | 1 | 7440473 | Chromium | 7.410E-04 | 4.283E-07 |

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|---|---|---|---|---|---|---|
| S0011 | 28 | 1 | 7440484 | Cobalt | 1.841E-04 | 1.064E-07 |
| S0011 | 28 | 1 | 7440508 | Copper | 7.410E-04 | 4.283E-07 |
| S0011 | 28 | 1 | 18540299 | Cr(VI) | 2.245E-05 | 1.298E-08 |
| S0011 | 28 | 1 | 7439921 | Lead | 5.614E-04 | 3.245E-07 |
| S0011 | 28 | 1 | 7440020 | Nickel | 6.512E-04 | 3.764E-07 |
| S0011 | 28 | 1 | 1175 | Silica, Crystln | 5.134E-01 | 2.968E-04 |
| S0011 | 28 | 1 | 7440622 | Vanadium | 1.190E-03 | 6.879E-07 |
| S0011 | 28 | 1 | 7440666 | Zinc | 1.729E-03 | 9.994E-07 |
| S0011 | 28 | 2 | 7440382 | Arsenic | 3.460E-04 | 2.000E-07 |
| S0011 | 28 | 2 | 7440393 | Barium | 4.287E-03 | 2.478E-06 |
| S0011 | 28 | 2 | 7440417 | Beryllium | 1.601E-05 | 9.255E-09 |
| S0011 | 28 | 2 | 7440439 | Cadmium | 4.080E-05 | 2.358E-08 |
| S0011 | 28 | 2 | 7440473 | Chromium | 1.704E-03 | 9.852E-07 |
| S0011 | 28 | 2 | 7440484 | Cobalt | 4.705E-04 | 2.720E-07 |
| S0011 | 28 | 2 | 7440508 | Copper | 1.704E-03 | 9.852E-07 |
| S0011 | 28 | 2 | 18540299 | Cr(VI) | 5.165E-05 | 2.985E-08 |
| S0011 | 28 | 2 | 7439921 | Lead | 1.291E-03 | 7.463E-07 |
| S0011 | 28 | 2 | 7440020 | Nickel | 1.498E-03 | 8.657E-07 |
| S0011 | 28 | 2 | 1175 | Silica, Crystln | 1.181E+00 | 6.825E-04 |
| S0011 | 28 | 2 | 7440622 | Vanadium | 2.842E-03 | 1.643E-06 |
| S0011 | 28 | 2 | 7440666 | Zinc | 1.186E-02 | 6.854E-06 |
| S0011 | 28 | 3 | 7440382 | Arsenic | 2.257E-05 | 1.304E-08 |
| S0011 | 28 | 3 | 7440393 | Barium | 2.796E-04 | 1.616E-07 |
| S0011 | 28 | 3 | 7440417 | Beryllium | 1.044E-06 | 6.036E-10 |
| S0011 | 28 | 3 | 7440439 | Cadmium | 2.661E-06 | 1.538E-09 |
| S0011 | 28 | 3 | 7440473 | Chromium | 1.112E-04 | 6.425E-08 |
| S0011 | 28 | 3 | 7440484 | Cobalt | 2.762E-05 | 1.597E-08 |
| S0011 | 28 | 3 | 7440508 | Copper | 1.112E-04 | 6.425E-08 |
| S0011 | 28 | 3 | 18540299 | Cr(VI) | 3.368E-06 | 1.947E-09 |
| S0011 | 28 | 3 | 7439921 | Lead | 8.421E-05 | 4.867E-08 |
| S0011 | 28 | 3 | 7440020 | Nickel | 9.768E-05 | 5.646E-08 |
| S0011 | 28 | 3 | 1175 | Silica, Crystln | 7.701E-02 | 4.451E-05 |
| S0011 | 28 | 3 | 7440622 | Vanadium | 1.785E-04 | 1.032E-07 |
| S0011 | 28 | 3 | 7440666 | Zinc | 2.594E-04 | 1.499E-07 |
| S0011 | 28 | 4 | 7440382 | Arsenic | 2.257E-04 | 1.304E-07 |
| S0011 | 28 | 4 | 7440393 | Barium | 2.796E-03 | 1.616E-06 |
| S0011 | 28 | 4 | 7440417 | Beryllium | 1.044E-05 | 6.036E-09 |
| S0011 | 28 | 4 | 7440439 | Cadmium | 2.661E-05 | 1.538E-08 |
| S0011 | 28 | 4 | 7440473 | Chromium | 1.112E-03 | 6.425E-07 |
| S0011 | 28 | 4 | 7440484 | Cobalt | 2.762E-04 | 1.597E-07 |
| S0011 | 28 | 4 | 7440508 | Copper | 1.112E-03 | 6.425E-07 |
| S0011 | 28 | 4 | 18540299 | Cr(VI) | 3.368E-05 | 1.947E-08 |
| S0011 | 28 | 4 | 7439921 | Lead | 8.421E-04 | 4.867E-07 |
| S0011 | 28 | 4 | 7440020 | Nickel | 9.768E-04 | 5.646E-07 |
| S0011 | 28 | 4 | 1175 | Silica, Crystln | 7.701E-01 | 4.451E-04 |
| S0011 | 28 | 4 | 7440622 | Vanadium | 1.785E-03 | 6.425E-07 |
| S0011 | 28 | 4 | 7440666 | Zinc | 2.594E-03 | 1.499E-06 |
| S0011 | 28 | 6 | 7440382 | Arsenic | 2.719E-03 | 1.572E-06 |
| S0011 | 28 | 6 | 7440393 | Barium | 3.368E-02 | 1.947E-05 |
| S0011 | 28 | 6 | 7440417 | Beryllium | 1.258E-04 | 7.271E-08 |
| S0011 | 28 | 6 | 7440439 | Cadmium | 3.206E-04 | 1.853E-07 |
| S0011 | 28 | 6 | 7440473 | Chromium | 1.339E-02 | 7.741E-06 |
| S0011 | 28 | 6 | 7440484 | Cobalt | 3.327E-03 | 1.923E-06 |
| S0011 | 28 | 6 | 7440508 | Copper | 1.339E-02 | 7.741E-06 |
| S0011 | 28 | 6 | 18540299 | Cr(VI) | 4.058E-04 | 2.346E-07 |
| S0011 | 28 | 6 | 7439921 | Lead | 1.014E-02 | 5.864E-06 |
| S0011 | 28 | 6 | 7440020 | Nickel | 1.177E-02 | 6.802E-06 |
| S0011 | 28 | 6 | 1175 | Silica, Crystln | 9.278E+00 | 5.363E-03 |
| S0011 | 28 | 6 | 7440622 | Vanadium | 2.151E-02 | 7.741E-06 |
| S0011 | 28 | 6 | 7440666 | Zinc | 4.743E-02 | 2.742E-05 |

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|---|---|---|---|---|---|---|
| S0012 | 11 | 4 | 7440382 | Arsenic | 1.433E-06 | 8.282E-10 |
| S0012 | 11 | 4 | 7440393 | Barium | 1.775E-05 | 1.026E-08 |
| S0012 | 11 | 4 | 7440417 | Beryllium | 6.630E-08 | 3.832E-11 |
| S0012 | 11 | 4 | 7440439 | Cadmium | 1.689E-07 | 9.766E-11 |
| S0012 | 11 | 4 | 7440473 | Chromium | 7.057E-06 | 4.079E-09 |
| S0012 | 11 | 4 | 7440484 | Cobalt | 1.754E-06 | 1.014E-09 |
| S0012 | 11 | 4 | 7440508 | Copper | 7.057E-06 | 4.079E-09 |
| S0012 | 11 | 4 | 18540299 | Cr(VI) | 2.139E-07 | 1.236E-10 |
| S0012 | 11 | 4 | 7439921 | Lead | 5.346E-06 | 3.090E-09 |
| S0012 | 11 | 4 | 7440020 | Nickel | 6.202E-06 | 3.585E-09 |
| S0012 | 11 | 4 | 1175 | Silica, Crystln | 4.889E-03 | 2.826E-06 |
| S0012 | 11 | 4 | 7440622 | Vanadium | 1.133E-05 | 4.079E-09 |
| S0012 | 11 | 4 | 7440666 | Zinc | 1.647E-05 | 9.518E-09 |
| S0013 | 11 | 5 | 7440382 | Arsenic | 2.364E-06 | 1.367E-09 |
| S0013 | 11 | 5 | 7440393 | Barium | 2.929E-05 | 1.693E-08 |
| S0013 | 11 | 5 | 7440417 | Beryllium | 1.094E-07 | 6.323E-11 |
| S0013 | 11 | 5 | 7440439 | Cadmium | 2.788E-07 | 1.611E-10 |
| S0013 | 11 | 5 | 7440473 | Chromium | 1.164E-05 | 6.731E-09 |
| S0013 | 11 | 5 | 7440484 | Cobalt | 2.893E-06 | 1.673E-09 |
| S0013 | 11 | 5 | 7440508 | Copper | 1.164E-05 | 6.731E-09 |
| S0013 | 11 | 5 | 18540299 | Cr(VI) | 3.529E-07 | 2.040E-10 |
| S0013 | 11 | 5 | 7439921 | Lead | 8.822E-06 | 5.099E-09 |
| S0013 | 11 | 5 | 7440020 | Nickel | 1.023E-05 | 5.915E-09 |
| S0013 | 11 | 5 | 1175 | Silica, Crystln | 8.067E-03 | 4.663E-06 |
| S0013 | 11 | 5 | 7440622 | Vanadium | 1.870E-05 | 6.731E-09 |
| S0013 | 11 | 5 | 7440666 | Zinc | 2.717E-05 | 1.571E-08 |
| S0014 | 28 | 5 | 7440382 | Arsenic | 3.224E-06 | 1.864E-09 |
| S0014 | 28 | 5 | 7440393 | Barium | 3.994E-05 | 2.309E-08 |
| S0014 | 28 | 5 | 7440417 | Beryllium | 1.492E-07 | 8.622E-11 |
| S0014 | 28 | 5 | 7440439 | Cadmium | 3.801E-07 | 2.197E-10 |
| S0014 | 28 | 5 | 7440473 | Chromium | 1.588E-05 | 9.178E-09 |
| S0014 | 28 | 5 | 7440484 | Cobalt | 3.946E-06 | 2.281E-09 |
| S0014 | 28 | 5 | 7440508 | Copper | 1.588E-05 | 9.178E-09 |
| S0014 | 28 | 5 | 18540299 | Cr(VI) | 4.812E-07 | 2.781E-10 |
| S0014 | 28 | 5 | 7439921 | Lead | 1.203E-05 | 6.953E-09 |
| S0014 | 28 | 5 | 7440020 | Nickel | 1.395E-05 | 8.066E-09 |
| S0014 | 28 | 5 | 1175 | Silica, Crystln | 1.100E-02 | 6.359E-06 |
| S0014 | 28 | 5 | 7440622 | Vanadium | 2.550E-05 | 9.178E-09 |
| S0014 | 28 | 5 | 7440666 | Zinc | 3.705E-05 | 2.142E-08 |
| S0015 | 25 | 1 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0015 | 25 | 1 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0015 | 25 | 1 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0015 | 25 | 1 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0015 | 25 | 1 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0015 | 25 | 1 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0015 | 25 | 1 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0015 | 25 | 1 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0015 | 25 | 1 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0015 | 25 | 1 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0015 | 25 | 1 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0015 | 25 | 1 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0015 | 25 | 1 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0015 | 25 | 1 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0015 | 25 | 1 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0015 | 25 | 1 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0015 | 25 | 1 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0015 | 25 | 1 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0015 | 25 | 1 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0016 | 25 | 2 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0016 | 25 | 2 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |

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|---|---|---|---|---|---|---|
| S0016 | 25 | 2 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0016 | 25 | 2 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0016 | 25 | 2 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0016 | 25 | 2 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0016 | 25 | 2 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0016 | 25 | 2 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0016 | 25 | 2 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0016 | 25 | 2 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0016 | 25 | 2 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0016 | 25 | 2 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0016 | 25 | 2 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0016 | 25 | 2 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0016 | 25 | 2 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0016 | 25 | 2 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0016 | 25 | 2 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0016 | 25 | 2 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0016 | 25 | 2 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0017 | 25 | 3 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0017 | 25 | 3 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0017 | 25 | 3 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0017 | 25 | 3 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0017 | 25 | 3 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0017 | 25 | 3 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0017 | 25 | 3 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0017 | 25 | 3 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0017 | 25 | 3 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0017 | 25 | 3 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0017 | 25 | 3 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0017 | 25 | 3 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0017 | 25 | 3 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0017 | 25 | 3 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0017 | 25 | 3 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0017 | 25 | 3 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0017 | 25 | 3 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0017 | 25 | 3 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0017 | 25 | 3 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0018 | 25 | 4 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0018 | 25 | 4 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0018 | 25 | 4 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0018 | 25 | 4 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0018 | 25 | 4 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0018 | 25 | 4 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0018 | 25 | 4 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0018 | 25 | 4 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0018 | 25 | 4 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0018 | 25 | 4 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0018 | 25 | 4 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0018 | 25 | 4 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0018 | 25 | 4 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0018 | 25 | 4 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0018 | 25 | 4 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0018 | 25 | 4 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0018 | 25 | 4 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0018 | 25 | 4 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0018 | 25 | 4 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0019 | 25 | 5 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0019 | 25 | 5 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0019 | 25 | 5 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0019 | 25 | 5 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0019 | 25 | 5 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |

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|---|---|---|---|---|---|---|
| S0019 | 25 | 5 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0019 | 25 | 5 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0019 | 25 | 5 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0019 | 25 | 5 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0019 | 25 | 5 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0019 | 25 | 5 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0019 | 25 | 5 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0019 | 25 | 5 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0019 | 25 | 5 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0019 | 25 | 5 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0019 | 25 | 5 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0019 | 25 | 5 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0019 | 25 | 5 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0019 | 25 | 5 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0020 | 25 | 6 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0020 | 25 | 6 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0020 | 25 | 6 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0020 | 25 | 6 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0020 | 25 | 6 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0020 | 25 | 6 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0020 | 25 | 6 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0020 | 25 | 6 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0020 | 25 | 6 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0020 | 25 | 6 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0020 | 25 | 6 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0020 | 25 | 6 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0020 | 25 | 6 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0020 | 25 | 6 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0020 | 25 | 6 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0020 | 25 | 6 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0020 | 25 | 6 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0020 | 25 | 6 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0020 | 25 | 6 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0021 | 25 | 7 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0021 | 25 | 7 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0021 | 25 | 7 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0021 | 25 | 7 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0021 | 25 | 7 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0021 | 25 | 7 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0021 | 25 | 7 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0021 | 25 | 7 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0021 | 25 | 7 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0021 | 25 | 7 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0021 | 25 | 7 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0021 | 25 | 7 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0021 | 25 | 7 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0021 | 25 | 7 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0021 | 25 | 7 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0021 | 25 | 7 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0021 | 25 | 7 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0021 | 25 | 7 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0021 | 25 | 7 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0022 | 25 | 8 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0022 | 25 | 8 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0022 | 25 | 8 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0022 | 25 | 8 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0022 | 25 | 8 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0022 | 25 | 8 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0022 | 25 | 8 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0022 | 25 | 8 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |

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|---|---|---|---|---|---|---|
| S0022 | 25 | 8 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0022 | 25 | 8 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0022 | 25 | 8 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0022 | 25 | 8 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0022 | 25 | 8 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0022 | 25 | 8 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0022 | 25 | 8 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0022 | 25 | 8 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0022 | 25 | 8 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0022 | 25 | 8 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0022 | 25 | 8 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0023 | 25 | 9 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0023 | 25 | 9 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0023 | 25 | 9 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0023 | 25 | 9 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0023 | 25 | 9 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0023 | 25 | 9 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0023 | 25 | 9 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0023 | 25 | 9 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0023 | 25 | 9 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0023 | 25 | 9 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0023 | 25 | 9 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0023 | 25 | 9 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0023 | 25 | 9 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0023 | 25 | 9 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0023 | 25 | 9 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0023 | 25 | 9 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0023 | 25 | 9 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0023 | 25 | 9 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0023 | 25 | 9 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0024 | 25 | 10 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0024 | 25 | 10 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0024 | 25 | 10 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0024 | 25 | 10 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0024 | 25 | 10 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0024 | 25 | 10 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0024 | 25 | 10 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0024 | 25 | 10 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0024 | 25 | 10 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0024 | 25 | 10 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0024 | 25 | 10 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0024 | 25 | 10 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0024 | 25 | 10 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0024 | 25 | 10 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0024 | 25 | 10 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0024 | 25 | 10 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0024 | 25 | 10 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0024 | 25 | 10 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0024 | 25 | 10 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0025 | 25 | 11 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0025 | 25 | 11 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0025 | 25 | 11 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0025 | 25 | 11 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0025 | 25 | 11 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0025 | 25 | 11 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0025 | 25 | 11 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0025 | 25 | 11 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0025 | 25 | 11 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0025 | 25 | 11 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0025 | 25 | 11 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |

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|---|---|---|---|---|---|---|
| S0025 | 25 | 11 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0025 | 25 | 11 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0025 | 25 | 11 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0025 | 25 | 11 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0025 | 25 | 11 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0025 | 25 | 11 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0025 | 25 | 11 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0025 | 25 | 11 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0026 | 23 | 1 | 7440382 | Arsenic | 2.972E-02 | 1.718E-05 |
| S0026 | 23 | 1 | 7440393 | Barium | 3.682E-01 | 2.128E-04 |
| S0026 | 23 | 1 | 7440417 | Beryllium | 1.375E-03 | 7.950E-07 |
| S0026 | 23 | 1 | 7440439 | Cadmium | 3.505E-03 | 2.026E-06 |
| S0026 | 23 | 1 | 7440473 | Chromium | 1.464E-01 | 8.462E-05 |
| S0026 | 23 | 1 | 7440484 | Cobalt | 3.638E-02 | 2.103E-05 |
| S0026 | 23 | 1 | 7440508 | Copper | 1.464E-01 | 8.462E-05 |
| S0026 | 23 | 1 | 18540299 | Cr(VI) | 4.436E-03 | 2.564E-06 |
| S0026 | 23 | 1 | 7439921 | Lead | 1.109E-01 | 6.411E-05 |
| S0026 | 23 | 1 | 7440020 | Nickel | 1.287E-01 | 7.437E-05 |
| S0026 | 23 | 1 | 1175 | Silica, Crystln | 1.311E+02 | 7.580E-02 |
| S0026 | 23 | 1 | 7440622 | Vanadium | 2.351E-01 | 1.359E-04 |
| S0026 | 23 | 1 | 7440666 | Zinc | 3.416E-01 | 1.975E-04 |
| S0028 | 14 | 1 | 7440473 | Chromium | 6.900E-04 | 3.988E-07 |
| S0028 | 14 | 1 | 7440484 | Cobalt | 1.150E-04 | 6.647E-08 |
| S0028 | 14 | 1 | 18540299 | Cr(VI) | 0.000E+00 | 0.000E+00 |
| S0028 | 14 | 1 | 7439965 | Manganese | 1.185E-01 | 6.847E-05 |
| S0028 | 14 | 1 | 7440020 | Nickel | 2.300E-04 | 1.329E-07 |
| S0028 | 14 | 2 | 7440473 | Chromium | 4.500E-05 | 2.601E-08 |
| S0028 | 14 | 2 | 7440484 | Cobalt | 9.000E-06 | 5.202E-09 |
| S0028 | 14 | 2 | 18540299 | Cr(VI) | 0.000E+00 | 0.000E+00 |
| S0028 | 14 | 2 | 7439965 | Manganese | 8.982E-03 | 5.192E-06 |
| S0028 | 14 | 2 | 7440020 | Nickel | 4.500E-05 | 2.601E-08 |
| S0028 | 24 | 1 | 7440473 | Chromium | 7.920E-03 | 4.578E-06 |
| S0028 | 24 | 1 | 7440484 | Cobalt | 0.000E+00 | 0.000E+00 |
| S0028 | 24 | 1 | 18540299 | Cr(VI) | 1.500E-04 | 8.671E-08 |
| S0028 | 24 | 1 | 7439965 | Manganese | 3.675E-03 | 2.124E-06 |
| S0028 | 24 | 1 | 7440020 | Nickel | 3.390E-03 | 1.960E-06 |
| S0028 | 29 | 1 | 106990 | 1,3-Butadiene | 9.772E-05 | 3.715E-07 |
| S0028 | 29 | 1 | 75070 | Acetaldehyde | 3.521E-04 | 1.339E-06 |
| S0028 | 29 | 1 | 107028 | Acrolein | 1.524E-05 | 5.794E-08 |
| S0028 | 29 | 1 | 7440382 | Arsenic | 7.192E-07 | 2.734E-09 |
| S0028 | 29 | 1 | 71432 | Benzene | 8.374E-05 | 3.184E-07 |
| S0028 | 29 | 1 | 7440439 | Cadmium | 6.742E-07 | 2.564E-09 |
| S0028 | 29 | 1 | 7440508 | Copper | 1.843E-06 | 7.007E-09 |
| S0028 | 29 | 1 | 18540299 | Cr(VI) | 4.495E-08 | 1.709E-10 |
| S0028 | 29 | 1 | 9901 | DieselExhPM | 1.506E-02 | 5.725E-05 |
| S0028 | 29 | 1 | 100414 | Ethyl Benzene | 4.899E-06 | 1.863E-08 |
| S0028 | 29 | 1 | 50000 | Formaldehyde | 7.758E-04 | 2.950E-06 |
| S0028 | 29 | 1 | 7647010 | HCl | 8.374E-05 | 3.184E-07 |
| S0028 | 29 | 1 | 110543 | Hexane | 1.209E-05 | 4.597E-08 |
| S0028 | 29 | 1 | 7439921 | Lead | 3.731E-06 | 1.419E-08 |
| S0028 | 29 | 1 | 7439965 | Manganese | 1.393E-06 | 5.298E-09 |
| S0028 | 29 | 1 | 7439976 | Mercury | 8.990E-07 | 3.418E-09 |
| S0028 | 29 | 1 | 91203 | Naphthalene | 8.855E-06 | 3.367E-08 |
| S0028 | 29 | 1 | 7664417 | NH3 | 3.596E-04 | 1.367E-06 |
| S0028 | 29 | 1 | 7440020 | Nickel | 1.753E-06 | 6.665E-09 |
| S0028 | 29 | 1 | 1151 | PAHs-w/o | 1.627E-05 | 6.187E-08 |
| S0028 | 29 | 1 | 7782492 | Selenium | 9.889E-07 | 3.760E-09 |
| S0028 | 29 | 1 | 108883 | Toluene | 4.738E-05 | 1.801E-07 |
| S0028 | 29 | 1 | 1330207 | Xylenes | 1.906E-05 | 7.246E-08 |

TAYLOR ENVIRONMENTAL SERVICES, INC.

All American Asphalt
Perris 2021 HRA
Table 2: Toxic Emissions by Substance

| Source ID | Device ID | Process ID | CAS | Pollutant Name | Annual Emissions (lbs/yr) | Hourly Emissions (lbs/hr) |
|---|---|---|---|---|---|---|
| S0001 | 12 | 2 | 71556 | 1,1,1-TCA | 1.549E+00 | 8.957E-04 |
| S0028 | 29 | 1 | 106990 | 1,3-Butadiene | 9.772E-05 | 3.715E-07 |
| S0001 | 12 | 2 | 540841 | 2,2,4TriMePentn | 1.771E+01 | 1.024E-02 |
| S0001 | 12 | 2 | 91576 | 2MeNaphthalene | 3.276E+01 | 1.894E-02 |
| S0002 | 12 | 3 | 91576 | 2MeNaphthalene | 5.926E-01 | 3.425E-04 |
| S0002 | 12 | 4 | 91576 | 2MeNaphthalene | 3.592E-01 | 2.076E-04 |
| S0005 | 15 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0006 | 16 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0007 | 17 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0008 | 18 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0009 | 19 | 1 | 91576 | 2MeNaphthalene | 1.016E+00 | 5.870E-04 |
| S0010 | 20 | 1 | 91576 | 2MeNaphthalene | 1.233E+00 | 7.130E-04 |
| S0010 | 27 | 1 | 91576 | 2MeNaphthalene | 2.825E-01 | 1.633E-04 |
| S0001 | 12 | 2 | 83329 | Acenaphthene | 5.445E-01 | 3.148E-04 |
| S0002 | 12 | 3 | 83329 | Acenaphthene | 5.285E-02 | 3.055E-05 |
| S0002 | 12 | 4 | 83329 | Acenaphthene | 3.924E-02 | 2.268E-05 |
| S0005 | 15 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0006 | 16 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0007 | 17 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0008 | 18 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0009 | 19 | 1 | 83329 | Acenaphthene | 9.057E-02 | 5.235E-05 |
| S0010 | 20 | 1 | 83329 | Acenaphthene | 1.100E-01 | 6.359E-05 |
| S0010 | 27 | 1 | 83329 | Acenaphthene | 2.519E-02 | 1.456E-05 |
| S0001 | 12 | 2 | 208968 | Acenaphthylene | 4.693E+00 | 2.713E-03 |
| S0002 | 12 | 3 | 208968 | Acenaphthylene | 1.574E-03 | 9.100E-07 |
| S0002 | 12 | 4 | 208968 | Acenaphthylene | 4.226E-03 | 2.443E-06 |
| S0005 | 15 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0006 | 16 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0007 | 17 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0008 | 18 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0009 | 19 | 1 | 208968 | Acenaphthylene | 2.698E-03 | 1.559E-06 |
| S0010 | 20 | 1 | 208968 | Acenaphthylene | 3.277E-03 | 1.894E-06 |
| S0010 | 27 | 1 | 208968 | Acenaphthylene | 7.504E-04 | 4.338E-07 |
| S0001 | 12 | 2 | 75070 | Acetaldehyde | 2.829E+01 | 1.635E-02 |
| S0003 | 7 | 1 | 75070 | Acetaldehyde | 1.401E-02 | 1.599E-06 |
| S0004 | 9 | 1 | 75070 | Acetaldehyde | 2.692E-02 | 3.073E-06 |
| S0028 | 29 | 1 | 75070 | Acetaldehyde | 3.521E-04 | 1.339E-06 |
| S0001 | 12 | 1 | 107028 | Acrolein | 7.894E-02 | 4.563E-05 |
| S0003 | 7 | 1 | 107028 | Acrolein | 8.794E-03 | 1.004E-06 |
| S0004 | 9 | 1 | 107028 | Acrolein | 1.690E-02 | 1.929E-06 |
| S0028 | 29 | 1 | 107028 | Acrolein | 1.524E-05 | 5.794E-08 |
| S0015 | 25 | 1 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0016 | 25 | 2 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0017 | 25 | 3 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0018 | 25 | 4 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0019 | 25 | 5 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0020 | 25 | 6 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0021 | 25 | 7 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0022 | 25 | 8 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0023 | 25 | 9 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0024 | 25 | 10 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0025 | 25 | 11 | 7429905 | Aluminum | 3.056E+01 | 1.767E-02 |
| S0001 | 12 | 2 | 120127 | Anthracene | 4.281E-01 | 2.475E-04 |
| S0002 | 12 | 3 | 120127 | Anthracene | 1.462E-02 | 8.450E-06 |
| S0002 | 12 | 4 | 120127 | Anthracene | 1.057E-02 | 6.107E-06 |
| S0005 | 15 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |

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|---|---|---|---|---|---|---|
| S0006 | 16 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |
| S0007 | 17 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |
| S0008 | 18 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |
| S0009 | 19 | 1 | 120127 | Anthracene | 2.505E-02 | 1.448E-05 |
| S0010 | 20 | 1 | 120127 | Anthracene | 3.043E-02 | 1.759E-05 |
| S0010 | 27 | 1 | 120127 | Anthracene | 6.968E-03 | 4.028E-06 |
| S0001 | 12 | 2 | 7440360 | Antimony | 7.969E-02 | 4.606E-05 |
| S0015 | 25 | 1 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0016 | 25 | 2 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0017 | 25 | 3 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0018 | 25 | 4 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0019 | 25 | 5 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0020 | 25 | 6 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0021 | 25 | 7 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0022 | 25 | 8 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0023 | 25 | 9 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0024 | 25 | 10 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0025 | 25 | 11 | 7440360 | Antimony | 2.711E-03 | 1.567E-06 |
| S0001 | 12 | 2 | 7440382 | Arsenic | 8.854E-01 | 5.118E-04 |
| S0011 | 11 | 1 | 7440382 | Arsenic | 1.504E-04 | 8.696E-08 |
| S0011 | 11 | 2 | 7440382 | Arsenic | 1.053E-03 | 6.087E-07 |
| S0011 | 11 | 3 | 7440382 | Arsenic | 1.672E-05 | 9.663E-09 |
| S0011 | 12 | 6 | 7440382 | Arsenic | 8.131E-04 | 4.700E-07 |
| S0011 | 12 | 8 | 7440382 | Arsenic | 3.194E-03 | 1.846E-06 |
| S0011 | 13 | 1 | 7440382 | Arsenic | 4.065E-04 | 2.350E-07 |
| S0011 | 13 | 2 | 7440382 | Arsenic | 2.033E-04 | 1.175E-07 |
| S0011 | 13 | 3 | 7440382 | Arsenic | 2.033E-04 | 1.175E-07 |
| S0011 | 28 | 1 | 7440382 | Arsenic | 1.504E-04 | 8.696E-08 |
| S0011 | 28 | 2 | 7440382 | Arsenic | 3.460E-04 | 2.000E-07 |
| S0011 | 28 | 3 | 7440382 | Arsenic | 2.257E-05 | 1.304E-08 |
| S0011 | 28 | 4 | 7440382 | Arsenic | 2.257E-04 | 1.304E-07 |
| S0011 | 28 | 6 | 7440382 | Arsenic | 2.719E-03 | 1.572E-06 |
| S0012 | 11 | 4 | 7440382 | Arsenic | 1.433E-06 | 8.282E-10 |
| S0013 | 11 | 5 | 7440382 | Arsenic | 2.364E-06 | 1.367E-09 |
| S0014 | 28 | 5 | 7440382 | Arsenic | 3.224E-06 | 1.864E-09 |
| S0015 | 25 | 1 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0016 | 25 | 2 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0017 | 25 | 3 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0018 | 25 | 4 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0019 | 25 | 5 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0020 | 25 | 6 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0021 | 25 | 7 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0022 | 25 | 8 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0023 | 25 | 9 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0024 | 25 | 10 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0025 | 25 | 11 | 7440382 | Arsenic | 5.810E-03 | 3.359E-06 |
| S0026 | 23 | 1 | 7440382 | Arsenic | 2.972E-02 | 1.718E-05 |
| S0028 | 29 | 1 | 7440382 | Arsenic | 7.192E-07 | 2.734E-09 |
| S0001 | 12 | 2 | 56553 | B[a]anthracene | 6.951E-03 | 4.018E-06 |
| S0002 | 12 | 3 | 56553 | B[a]anthracene | 6.297E-03 | 3.640E-06 |
| S0002 | 12 | 4 | 56553 | B[a]anthracene | 2.868E-03 | 1.658E-06 |
| S0005 | 15 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0006 | 16 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0007 | 17 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0008 | 18 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0009 | 19 | 1 | 56553 | B[a]anthracene | 1.079E-02 | 6.238E-06 |
| S0010 | 20 | 1 | 56553 | B[a]anthracene | 1.311E-02 | 7.576E-06 |
| S0010 | 27 | 1 | 56553 | B[a]anthracene | 3.002E-03 | 1.735E-06 |
| S0001 | 12 | 2 | 50328 | B[a]P | 7.216E-04 | 4.171E-07 |
| S0002 | 12 | 4 | 50328 | B[a]P | 3.472E-04 | 2.007E-07 |

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|---|---|---|---|---|---|---|
| S0001 | 12 | 2 | 205992 | B[b]fluoranthen | 1.651E-03 | 9.545E-07 |
| S0002 | 12 | 4 | 205992 | B[b]fluoranthen | 1.147E-03 | 6.631E-07 |
| S0001 | 12 | 2 | 192972 | B[e]pyrene | 1.833E-03 | 1.059E-06 |
| S0002 | 12 | 3 | 192972 | B[e]pyrene | 1.068E-03 | 6.175E-07 |
| S0002 | 12 | 4 | 192972 | B[e]pyrene | 1.177E-03 | 6.805E-07 |
| S0005 | 15 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0006 | 16 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0007 | 17 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0008 | 18 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0009 | 19 | 1 | 192972 | B[e]pyrene | 1.831E-03 | 1.058E-06 |
| S0010 | 20 | 1 | 192972 | B[e]pyrene | 2.223E-03 | 1.285E-06 |
| S0010 | 27 | 1 | 192972 | B[e]pyrene | 5.092E-04 | 2.944E-07 |
| S0001 | 12 | 2 | 191242 | B[g,h,i]perylen | 9.031E-04 | 5.220E-07 |
| S0002 | 12 | 4 | 191242 | B[g,h,i]perylen | 2.868E-04 | 1.658E-07 |
| S0001 | 12 | 2 | 207089 | B[k]fluoranthen | 1.930E-03 | 1.116E-06 |
| S0002 | 12 | 4 | 207089 | B[k]fluoranthen | 3.321E-04 | 1.919E-07 |
| S0001 | 12 | 2 | 7440393 | Barium | 2.568E+00 | 1.484E-03 |
| S0011 | 11 | 1 | 7440393 | Barium | 1.864E-03 | 1.077E-06 |
| S0011 | 11 | 2 | 7440393 | Barium | 1.305E-02 | 7.541E-06 |
| S0011 | 11 | 3 | 7440393 | Barium | 2.071E-04 | 1.197E-07 |
| S0011 | 12 | 6 | 7440393 | Barium | 5.375E-03 | 3.107E-06 |
| S0011 | 12 | 8 | 7440393 | Barium | 2.112E-02 | 1.221E-05 |
| S0011 | 13 | 1 | 7440393 | Barium | 2.688E-03 | 1.554E-06 |
| S0011 | 13 | 2 | 7440393 | Barium | 1.344E-03 | 7.768E-07 |
| S0011 | 13 | 3 | 7440393 | Barium | 1.344E-03 | 7.768E-07 |
| S0011 | 28 | 1 | 7440393 | Barium | 1.864E-03 | 1.077E-06 |
| S0011 | 28 | 2 | 7440393 | Barium | 4.287E-03 | 2.478E-06 |
| S0011 | 28 | 3 | 7440393 | Barium | 2.796E-04 | 1.616E-07 |
| S0011 | 28 | 4 | 7440393 | Barium | 2.796E-03 | 1.616E-06 |
| S0011 | 28 | 6 | 7440393 | Barium | 3.368E-02 | 1.947E-05 |
| S0012 | 11 | 4 | 7440393 | Barium | 1.775E-05 | 1.026E-08 |
| S0013 | 11 | 5 | 7440393 | Barium | 2.929E-05 | 1.693E-08 |
| S0014 | 28 | 5 | 7440393 | Barium | 3.994E-05 | 2.309E-08 |
| S0015 | 25 | 1 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0016 | 25 | 2 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0017 | 25 | 3 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0018 | 25 | 4 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0019 | 25 | 5 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0020 | 25 | 6 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0021 | 25 | 7 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0022 | 25 | 8 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0023 | 25 | 9 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0024 | 25 | 10 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0025 | 25 | 11 | 7440393 | Barium | 3.688E-01 | 2.132E-04 |
| S0026 | 23 | 1 | 7440393 | Barium | 3.682E-01 | 2.128E-04 |
| S0001 | 12 | 2 | 71432 | Benzene | 1.469E+02 | 8.491E-02 |
| S0002 | 12 | 3 | 71432 | Benzene | 1.726E+00 | 9.979E-04 |
| S0002 | 12 | 4 | 71432 | Benzene | 9.574E-01 | 5.534E-04 |
| S0003 | 7 | 1 | 71432 | Benzene | 2.606E-02 | 2.975E-06 |
| S0004 | 9 | 1 | 71432 | Benzene | 5.008E-02 | 5.717E-06 |
| S0005 | 15 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0006 | 16 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0007 | 17 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0008 | 18 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0009 | 19 | 1 | 71432 | Benzene | 2.186E-01 | 1.264E-04 |
| S0010 | 20 | 1 | 71432 | Benzene | 2.655E-01 | 1.535E-04 |
| S0010 | 27 | 1 | 71432 | Benzene | 6.082E-02 | 3.515E-05 |
| S0028 | 29 | 1 | 71432 | Benzene | 8.374E-05 | 3.184E-07 |
| S0001 | 12 | 2 | 7440417 | Beryllium | 8.854E-01 | 5.118E-04 |
| S0011 | 11 | 1 | 7440417 | Beryllium | 6.961E-06 | 4.024E-09 |

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|---|---|---|---|---|---|---|
| S0011 | 11 | 2 | 7440417 | Beryllium | 4.873E-05 | 2.817E-08 |
| S0011 | 11 | 3 | 7440417 | Beryllium | 7.734E-07 | 4.471E-10 |
| S0011 | 12 | 6 | 7440417 | Beryllium | 4.969E-05 | 2.872E-08 |
| S0011 | 12 | 8 | 7440417 | Beryllium | 1.952E-04 | 1.128E-07 |
| S0011 | 13 | 1 | 7440417 | Beryllium | 2.484E-05 | 1.436E-08 |
| S0011 | 13 | 2 | 7440417 | Beryllium | 1.242E-05 | 7.180E-09 |
| S0011 | 13 | 3 | 7440417 | Beryllium | 1.242E-05 | 7.180E-09 |
| S0011 | 28 | 1 | 7440417 | Beryllium | 6.961E-06 | 4.024E-09 |
| S0011 | 28 | 2 | 7440417 | Beryllium | 1.601E-05 | 9.255E-09 |
| S0011 | 28 | 3 | 7440417 | Beryllium | 1.044E-06 | 6.036E-10 |
| S0011 | 28 | 4 | 7440417 | Beryllium | 1.044E-05 | 6.036E-09 |
| S0011 | 28 | 6 | 7440417 | Beryllium | 1.258E-04 | 7.271E-08 |
| S0012 | 11 | 4 | 7440417 | Beryllium | 6.630E-08 | 3.832E-11 |
| S0013 | 11 | 5 | 7440417 | Beryllium | 1.094E-07 | 6.323E-11 |
| S0014 | 28 | 5 | 7440417 | Beryllium | 1.492E-07 | 8.622E-11 |
| S0026 | 23 | 1 | 7440417 | Beryllium | 1.375E-03 | 7.950E-07 |
| S0015 | 25 | 1 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0016 | 25 | 2 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0017 | 25 | 3 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0018 | 25 | 4 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0019 | 25 | 5 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0020 | 25 | 6 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0021 | 25 | 7 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0022 | 25 | 8 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0023 | 25 | 9 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0024 | 25 | 10 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0025 | 25 | 11 | 7726956 | Bromine | 8.134E-03 | 4.702E-06 |
| S0001 | 12 | 2 | 7440439 | Cadmium | 3.537E+00 | 2.045E-03 |
| S0011 | 11 | 1 | 7440439 | Cadmium | 1.774E-05 | 1.025E-08 |
| S0011 | 11 | 2 | 7440439 | Cadmium | 1.242E-04 | 7.178E-08 |
| S0011 | 11 | 3 | 7440439 | Cadmium | 1.971E-06 | 1.139E-09 |
| S0011 | 12 | 6 | 7440439 | Cadmium | 8.658E-05 | 5.004E-08 |
| S0011 | 12 | 8 | 7440439 | Cadmium | 3.401E-04 | 1.966E-07 |
| S0011 | 13 | 1 | 7440439 | Cadmium | 4.329E-05 | 2.502E-08 |
| S0011 | 13 | 2 | 7440439 | Cadmium | 2.164E-05 | 1.251E-08 |
| S0011 | 13 | 3 | 7440439 | Cadmium | 2.164E-05 | 1.251E-08 |
| S0011 | 28 | 1 | 7440439 | Cadmium | 1.774E-05 | 1.025E-08 |
| S0011 | 28 | 2 | 7440439 | Cadmium | 4.080E-05 | 2.358E-08 |
| S0011 | 28 | 3 | 7440439 | Cadmium | 2.661E-06 | 1.538E-09 |
| S0011 | 28 | 4 | 7440439 | Cadmium | 2.661E-05 | 1.538E-08 |
| S0011 | 28 | 6 | 7440439 | Cadmium | 3.206E-04 | 1.853E-07 |
| S0012 | 11 | 4 | 7440439 | Cadmium | 1.689E-07 | 9.766E-11 |
| S0013 | 11 | 5 | 7440439 | Cadmium | 2.788E-07 | 1.611E-10 |
| S0014 | 28 | 5 | 7440439 | Cadmium | 3.801E-07 | 2.197E-10 |
| S0015 | 25 | 1 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0016 | 25 | 2 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0017 | 25 | 3 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0018 | 25 | 4 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0019 | 25 | 5 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0020 | 25 | 6 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0021 | 25 | 7 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0022 | 25 | 8 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0023 | 25 | 9 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0024 | 25 | 10 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0025 | 25 | 11 | 7440439 | Cadmium | 9.684E-03 | 5.598E-06 |
| S0026 | 23 | 1 | 7440439 | Cadmium | 3.505E-03 | 2.026E-06 |
| S0028 | 29 | 1 | 7440439 | Cadmium | 6.742E-07 | 2.564E-09 |
| S0015 | 25 | 1 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0016 | 25 | 2 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0017 | 25 | 3 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |

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|---|---|---|---|---|---|---|
| S0018 | 25 | 4 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0019 | 25 | 5 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0020 | 25 | 6 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0021 | 25 | 7 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0022 | 25 | 8 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0023 | 25 | 9 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0024 | 25 | 10 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0025 | 25 | 11 | 7782505 | Chlorine | 5.043E-01 | 2.915E-04 |
| S0001 | 12 | 2 | 7440473 | Chromium | 6.862E-01 | 3.967E-04 |
| S0011 | 11 | 1 | 7440473 | Chromium | 7.410E-04 | 4.283E-07 |
| S0011 | 11 | 2 | 7440473 | Chromium | 5.187E-03 | 2.998E-06 |
| S0011 | 11 | 3 | 7440473 | Chromium | 8.233E-05 | 4.759E-08 |
| S0011 | 12 | 6 | 7440473 | Chromium | 6.173E-03 | 3.568E-06 |
| S0011 | 12 | 8 | 7440473 | Chromium | 2.425E-02 | 1.402E-05 |
| S0011 | 13 | 1 | 7440473 | Chromium | 3.087E-03 | 1.784E-06 |
| S0011 | 13 | 2 | 7440473 | Chromium | 1.543E-03 | 8.921E-07 |
| S0011 | 13 | 3 | 7440473 | Chromium | 1.543E-03 | 8.921E-07 |
| S0011 | 28 | 1 | 7440473 | Chromium | 7.410E-04 | 4.283E-07 |
| S0011 | 28 | 2 | 7440473 | Chromium | 1.704E-03 | 9.852E-07 |
| S0011 | 28 | 3 | 7440473 | Chromium | 1.112E-04 | 6.425E-08 |
| S0011 | 28 | 4 | 7440473 | Chromium | 1.112E-03 | 6.425E-07 |
| S0011 | 28 | 6 | 7440473 | Chromium | 1.339E-02 | 7.741E-06 |
| S0012 | 11 | 4 | 7440473 | Chromium | 7.057E-06 | 4.079E-09 |
| S0013 | 11 | 5 | 7440473 | Chromium | 1.164E-05 | 6.731E-09 |
| S0014 | 28 | 5 | 7440473 | Chromium | 1.588E-05 | 9.178E-09 |
| S0015 | 25 | 1 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0016 | 25 | 2 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0017 | 25 | 3 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0018 | 25 | 4 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0019 | 25 | 5 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0020 | 25 | 6 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0021 | 25 | 7 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0022 | 25 | 8 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0023 | 25 | 9 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0024 | 25 | 10 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0025 | 25 | 11 | 7440473 | Chromium | 9.490E-02 | 5.486E-05 |
| S0026 | 23 | 1 | 7440473 | Chromium | 1.464E-01 | 8.462E-05 |
| S0028 | 14 | 1 | 7440473 | Chromium | 6.900E-04 | 3.988E-07 |
| S0028 | 14 | 2 | 7440473 | Chromium | 4.500E-05 | 2.601E-08 |
| S0028 | 24 | 1 | 7440473 | Chromium | 7.920E-03 | 4.578E-06 |
| S0001 | 12 | 2 | 218019 | Chrysene | 1.426E-03 | 8.240E-07 |
| S0002 | 12 | 3 | 218019 | Chrysene | 2.361E-02 | 1.365E-05 |
| S0002 | 12 | 4 | 218019 | Chrysene | 1.555E-02 | 8.986E-06 |
| S0005 | 15 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0006 | 16 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0007 | 17 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0008 | 18 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0009 | 19 | 1 | 218019 | Chrysene | 4.047E-02 | 2.339E-05 |
| S0010 | 20 | 1 | 218019 | Chrysene | 4.915E-02 | 2.841E-05 |
| S0010 | 27 | 1 | 218019 | Chrysene | 1.126E-02 | 6.507E-06 |
| S0001 | 12 | 2 | 7440484 | Cobalt | 1.151E-02 | 6.653E-06 |
| S0011 | 11 | 1 | 7440484 | Cobalt | 1.841E-04 | 1.064E-07 |
| S0011 | 11 | 2 | 7440484 | Cobalt | 1.289E-03 | 7.450E-07 |
| S0011 | 11 | 3 | 7440484 | Cobalt | 2.046E-05 | 1.183E-08 |
| S0011 | 12 | 6 | 7440484 | Cobalt | 1.882E-03 | 1.088E-06 |
| S0011 | 12 | 8 | 7440484 | Cobalt | 7.394E-03 | 4.274E-06 |
| S0011 | 13 | 1 | 7440484 | Cobalt | 9.410E-04 | 5.440E-07 |
| S0011 | 13 | 2 | 7440484 | Cobalt | 4.235E-04 | 2.448E-07 |
| S0011 | 13 | 3 | 7440484 | Cobalt | 4.705E-04 | 2.720E-07 |
| S0011 | 28 | 1 | 7440484 | Cobalt | 1.841E-04 | 1.064E-07 |

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|---|---|---|---|---|---|---|
| S0011 | 28 | 2 | 7440484 | Cobalt | 4.705E-04 | 2.720E-07 |
| S0011 | 28 | 3 | 7440484 | Cobalt | 2.762E-05 | 1.597E-08 |
| S0011 | 28 | 4 | 7440484 | Cobalt | 2.762E-04 | 1.597E-07 |
| S0011 | 28 | 6 | 7440484 | Cobalt | 3.327E-03 | 1.923E-06 |
| S0012 | 11 | 4 | 7440484 | Cobalt | 1.754E-06 | 1.014E-09 |
| S0013 | 11 | 5 | 7440484 | Cobalt | 2.893E-06 | 1.673E-09 |
| S0014 | 28 | 5 | 7440484 | Cobalt | 3.946E-06 | 2.281E-09 |
| S0015 | 25 | 1 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0016 | 25 | 2 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0017 | 25 | 3 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0018 | 25 | 4 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0019 | 25 | 5 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0020 | 25 | 6 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0021 | 25 | 7 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0022 | 25 | 8 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0023 | 25 | 9 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0024 | 25 | 10 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0025 | 25 | 11 | 7440484 | Cobalt | 5.772E-02 | 3.336E-05 |
| S0026 | 23 | 1 | 7440484 | Cobalt | 3.638E-02 | 2.103E-05 |
| S0028 | 14 | 1 | 7440484 | Cobalt | 1.150E-04 | 6.647E-08 |
| S0028 | 14 | 2 | 7440484 | Cobalt | 9.000E-06 | 5.202E-09 |
| S0028 | 24 | 1 | 7440484 | Cobalt | 0.000E+00 | 0.000E+00 |
| S0001 | 12 | 2 | 7440508 | Copper | 2.160E+00 | 1.249E-03 |
| S0011 | 11 | 1 | 7440508 | Copper | 7.410E-04 | 4.283E-07 |
| S0011 | 11 | 2 | 7440508 | Copper | 5.187E-03 | 2.998E-06 |
| S0011 | 11 | 3 | 7440508 | Copper | 8.233E-05 | 4.759E-08 |
| S0011 | 12 | 6 | 7440508 | Copper | 5.646E-03 | 3.264E-06 |
| S0011 | 12 | 8 | 7440508 | Copper | 2.218E-02 | 1.282E-05 |
| S0011 | 13 | 1 | 7440508 | Copper | 2.823E-03 | 1.632E-06 |
| S0011 | 13 | 2 | 7440508 | Copper | 1.412E-03 | 8.159E-07 |
| S0011 | 13 | 3 | 7440508 | Copper | 1.412E-03 | 8.159E-07 |
| S0011 | 28 | 1 | 7440508 | Copper | 7.410E-04 | 4.283E-07 |
| S0011 | 28 | 2 | 7440508 | Copper | 1.704E-03 | 9.852E-07 |
| S0011 | 28 | 3 | 7440508 | Copper | 1.112E-04 | 6.425E-08 |
| S0011 | 28 | 4 | 7440508 | Copper | 1.112E-03 | 6.425E-07 |
| S0011 | 28 | 6 | 7440508 | Copper | 1.339E-02 | 7.741E-06 |
| S0012 | 11 | 4 | 7440508 | Copper | 7.057E-06 | 4.079E-09 |
| S0013 | 11 | 5 | 7440508 | Copper | 1.164E-05 | 6.731E-09 |
| S0014 | 28 | 5 | 7440508 | Copper | 1.588E-05 | 9.178E-09 |
| S0015 | 25 | 1 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0016 | 25 | 2 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0017 | 25 | 3 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0018 | 25 | 4 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0019 | 25 | 5 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0020 | 25 | 6 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0021 | 25 | 7 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0022 | 25 | 8 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0023 | 25 | 9 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0024 | 25 | 10 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0025 | 25 | 11 | 7440508 | Copper | 3.370E-02 | 1.948E-05 |
| S0026 | 23 | 1 | 7440508 | Copper | 1.464E-01 | 8.462E-05 |
| S0028 | 29 | 1 | 7440508 | Copper | 1.843E-06 | 7.007E-09 |
| S0001 | 12 | 2 | 18540299 | Cr(VI) | 1.700E-03 | 9.827E-07 |
| S0011 | 11 | 1 | 18540299 | Cr(VI) | 2.245E-05 | 1.298E-08 |
| S0011 | 11 | 2 | 18540299 | Cr(VI) | 1.572E-04 | 9.086E-08 |
| S0011 | 11 | 3 | 18540299 | Cr(VI) | 2.495E-06 | 1.442E-09 |
| S0011 | 12 | 6 | 18540299 | Cr(VI) | 1.024E-04 | 5.918E-08 |
| S0011 | 12 | 8 | 18540299 | Cr(VI) | 4.022E-04 | 2.325E-07 |
| S0011 | 13 | 1 | 18540299 | Cr(VI) | 5.119E-05 | 2.959E-08 |
| S0011 | 13 | 2 | 18540299 | Cr(VI) | 2.560E-05 | 1.480E-08 |

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|---|---|---|---|---|---|---|
| S0011 | 13 | 3 | 18540299 | Cr(VI) | 2.560E-05 | 1.480E-08 |
| S0011 | 28 | 1 | 18540299 | Cr(VI) | 2.245E-05 | 1.298E-08 |
| S0011 | 28 | 2 | 18540299 | Cr(VI) | 5.165E-05 | 2.985E-08 |
| S0011 | 28 | 3 | 18540299 | Cr(VI) | 3.368E-06 | 1.947E-09 |
| S0011 | 28 | 4 | 18540299 | Cr(VI) | 3.368E-05 | 1.947E-08 |
| S0011 | 28 | 6 | 18540299 | Cr(VI) | 4.058E-04 | 2.346E-07 |
| S0012 | 11 | 4 | 18540299 | Cr(VI) | 2.139E-07 | 1.236E-10 |
| S0013 | 11 | 5 | 18540299 | Cr(VI) | 3.529E-07 | 2.040E-10 |
| S0014 | 28 | 5 | 18540299 | Cr(VI) | 4.812E-07 | 2.781E-10 |
| S0026 | 23 | 1 | 18540299 | Cr(VI) | 4.436E-03 | 2.564E-06 |
| S0028 | 14 | 1 | 18540299 | Cr(VI) | 0.000E+00 | 0.000E+00 |
| S0028 | 14 | 2 | 18540299 | Cr(VI) | 0.000E+00 | 0.000E+00 |
| S0028 | 24 | 1 | 18540299 | Cr(VI) | 1.500E-04 | 8.671E-08 |
| S0028 | 29 | 1 | 18540299 | Cr(VI) | 4.495E-08 | 1.709E-10 |
| S0005 | 15 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0006 | 16 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0007 | 17 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0008 | 18 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0009 | 19 | 1 | 75150 | CS2 | 1.093E-01 | 6.319E-05 |
| S0010 | 20 | 1 | 75150 | CS2 | 1.328E-01 | 7.674E-05 |
| S0010 | 27 | 1 | 75150 | CS2 | 3.041E-02 | 1.758E-05 |
| S0001 | 12 | 2 | 53703 | D[a,h]anthracen | 7.836E-04 | 4.529E-07 |
| S0002 | 12 | 4 | 53703 | D[a,h]anthracen | 5.585E-05 | 3.228E-08 |
| S0028 | 29 | 1 | 9901 | DieselExhPM | 1.506E-02 | 5.725E-05 |
| S0001 | 12 | 2 | 100414 | Ethyl Benzene | 1.479E+01 | 8.547E-03 |
| S0002 | 12 | 3 | 100414 | Ethyl Benzene | 2.050E+00 | 1.185E-03 |
| S0002 | 12 | 4 | 100414 | Ethyl Benzene | 5.155E+00 | 2.980E-03 |
| S0003 | 7 | 1 | 100414 | Ethyl Benzene | 3.094E-02 | 3.532E-06 |
| S0004 | 9 | 1 | 100414 | Ethyl Benzene | 5.947E-02 | 6.789E-06 |
| S0005 | 15 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0006 | 16 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0007 | 17 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0008 | 18 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0009 | 19 | 1 | 100414 | Ethyl Benzene | 2.596E-01 | 1.501E-04 |
| S0010 | 20 | 1 | 100414 | Ethyl Benzene | 3.153E-01 | 1.823E-04 |
| S0010 | 27 | 1 | 100414 | Ethyl Benzene | 7.222E-02 | 4.174E-05 |
| S0028 | 29 | 1 | 100414 | Ethyl Benzene | 4.899E-06 | 1.863E-08 |
| S0005 | 15 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0006 | 16 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0007 | 17 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0008 | 18 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0009 | 19 | 1 | 75003 | Ethyl Chloride | 2.733E-02 | 1.580E-05 |
| S0010 | 20 | 1 | 75003 | Ethyl Chloride | 3.319E-02 | 1.919E-05 |
| S0010 | 27 | 1 | 75003 | Ethyl Chloride | 7.602E-03 | 4.394E-06 |
| S0001 | 12 | 2 | 206440 | Fluoranthene | 1.594E+00 | 9.213E-04 |
| S0002 | 12 | 3 | 206440 | Fluoranthene | 1.687E-02 | 9.750E-06 |
| S0002 | 12 | 4 | 206440 | Fluoranthene | 7.547E-03 | 4.362E-06 |
| S0005 | 15 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |
| S0006 | 16 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |
| S0007 | 17 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |
| S0008 | 18 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |
| S0009 | 19 | 1 | 206440 | Fluoranthene | 2.890E-02 | 1.671E-05 |
| S0010 | 20 | 1 | 206440 | Fluoranthene | 3.511E-02 | 2.029E-05 |
| S0010 | 27 | 1 | 206440 | Fluoranthene | 8.040E-03 | 4.648E-06 |
| S0001 | 12 | 2 | 86737 | Fluorene | 1.173E+00 | 6.781E-04 |
| S0002 | 12 | 3 | 86737 | Fluorene | 1.136E-01 | 6.565E-05 |
| S0002 | 12 | 4 | 86737 | Fluorene | 1.162E-01 | 6.718E-05 |
| S0005 | 15 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |
| S0006 | 16 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |
| S0007 | 17 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |

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|---|---|---|---|---|---|---|
| S0008 | 18 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |
| S0009 | 19 | 1 | 86737 | Fluorene | 1.946E-01 | 1.125E-04 |
| S0010 | 20 | 1 | 86737 | Fluorene | 2.364E-01 | 1.366E-04 |
| S0010 | 27 | 1 | 86737 | Fluorene | 5.414E-02 | 3.129E-05 |
| S0001 | 12 | 2 | 50000 | Formaldehyde | 3.481E+02 | 2.012E-01 |
| S0002 | 12 | 3 | 50000 | Formaldehyde | 3.722E+01 | 2.152E-02 |
| S0002 | 12 | 4 | 50000 | Formaldehyde | 1.620E+00 | 9.366E-04 |
| S0003 | 7 | 1 | 50000 | Formaldehyde | 5.537E-02 | 6.321E-06 |
| S0004 | 9 | 1 | 50000 | Formaldehyde | 1.064E-01 | 1.215E-05 |
| S0005 | 15 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0006 | 16 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0007 | 17 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0008 | 18 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0009 | 19 | 1 | 50000 | Formaldehyde | 4.714E+00 | 2.725E-03 |
| S0010 | 20 | 1 | 50000 | Formaldehyde | 5.726E+00 | 3.310E-03 |
| S0010 | 27 | 1 | 50000 | Formaldehyde | 1.311E+00 | 7.580E-04 |
| S0028 | 29 | 1 | 50000 | Formaldehyde | 7.758E-04 | 2.950E-06 |
| S0001 | 12 | 2 | 7783064 | H2S | 3.961E+02 | 2.290E-01 |
| S0028 | 29 | 1 | 7647010 | HCl | 8.374E-05 | 3.184E-07 |
| S0001 | 12 | 2 | 110543 | Hexane | 4.073E+02 | 2.354E-01 |
| S0002 | 12 | 3 | 110543 | Hexane | 5.395E+00 | 3.118E-03 |
| S0002 | 12 | 4 | 110543 | Hexane | 2.762E+00 | 1.596E-03 |
| S0003 | 7 | 1 | 110543 | Hexane | 2.052E-02 | 2.343E-06 |
| S0004 | 9 | 1 | 110543 | Hexane | 3.944E-02 | 4.502E-06 |
| S0005 | 15 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0006 | 16 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0007 | 17 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0008 | 18 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0009 | 19 | 1 | 110543 | Hexane | 6.832E-01 | 3.949E-04 |
| S0010 | 20 | 1 | 110543 | Hexane | 8.298E-01 | 4.797E-04 |
| S0010 | 27 | 1 | 110543 | Hexane | 1.900E-01 | 1.099E-04 |
| S0028 | 29 | 1 | 110543 | Hexane | 1.209E-05 | 4.597E-08 |
| S0001 | 12 | 2 | 193395 | In[1,2,3-cd]pyr | 9.651E-04 | 5.579E-07 |
| S0002 | 12 | 4 | 193395 | In[1,2,3-cd]pyr | 7.094E-05 | 4.101E-08 |
| S0001 | 12 | 2 | 7439921 | Lead | 9.297E+00 | 5.374E-03 |
| S0011 | 11 | 1 | 7439921 | Lead | 5.614E-04 | 3.245E-07 |
| S0011 | 11 | 2 | 7439921 | Lead | 3.930E-03 | 2.271E-06 |
| S0011 | 11 | 3 | 7439921 | Lead | 6.237E-05 | 3.605E-08 |
| S0011 | 12 | 6 | 7439921 | Lead | 2.635E-03 | 1.523E-06 |
| S0011 | 12 | 8 | 7439921 | Lead | 1.035E-02 | 5.984E-06 |
| S0011 | 13 | 1 | 7439921 | Lead | 1.317E-03 | 7.615E-07 |
| S0011 | 13 | 2 | 7439921 | Lead | 6.587E-04 | 3.808E-07 |
| S0011 | 13 | 3 | 7439921 | Lead | 6.587E-04 | 3.808E-07 |
| S0011 | 28 | 1 | 7439921 | Lead | 5.614E-04 | 3.245E-07 |
| S0011 | 28 | 2 | 7439921 | Lead | 1.291E-03 | 7.463E-07 |
| S0011 | 28 | 3 | 7439921 | Lead | 8.421E-05 | 4.867E-08 |
| S0011 | 28 | 4 | 7439921 | Lead | 8.421E-04 | 4.867E-07 |
| S0011 | 28 | 6 | 7439921 | Lead | 1.014E-02 | 5.864E-06 |
| S0012 | 11 | 4 | 7439921 | Lead | 5.346E-06 | 3.090E-09 |
| S0013 | 11 | 5 | 7439921 | Lead | 8.822E-06 | 5.099E-09 |
| S0014 | 28 | 5 | 7439921 | Lead | 1.203E-05 | 6.953E-09 |
| S0015 | 25 | 1 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0016 | 25 | 2 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0017 | 25 | 3 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0018 | 25 | 4 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0019 | 25 | 5 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0020 | 25 | 6 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0021 | 25 | 7 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0022 | 25 | 8 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0023 | 25 | 9 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |

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|---|---|---|---|---|---|---|
| S0024 | 25 | 10 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0025 | 25 | 11 | 7439921 | Lead | 3.490E-01 | 2.017E-04 |
| S0026 | 23 | 1 | 7439921 | Lead | 1.109E-01 | 6.411E-05 |
| S0028 | 29 | 1 | 7439921 | Lead | 3.731E-06 | 1.419E-08 |
| S0001 | 12 | 2 | 7439965 | Manganese | 1.975E+01 | 1.141E-02 |
| S0015 | 25 | 1 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0016 | 25 | 2 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0017 | 25 | 3 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0018 | 25 | 4 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0019 | 25 | 5 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0020 | 25 | 6 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0021 | 25 | 7 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0022 | 25 | 8 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0023 | 25 | 9 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0024 | 25 | 10 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0025 | 25 | 11 | 7439965 | Manganese | 4.071E-01 | 2.353E-04 |
| S0028 | 14 | 1 | 7439965 | Manganese | 1.185E-01 | 6.847E-05 |
| S0028 | 14 | 2 | 7439965 | Manganese | 8.982E-03 | 5.192E-06 |
| S0028 | 24 | 1 | 7439965 | Manganese | 3.675E-03 | 2.124E-06 |
| S0028 | 29 | 1 | 7439965 | Manganese | 1.393E-06 | 5.298E-09 |
| S0005 | 15 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0006 | 16 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0007 | 17 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0008 | 18 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0009 | 19 | 1 | 78933 | MEK | 2.664E-01 | 1.540E-04 |
| S0010 | 20 | 1 | 78933 | MEK | 3.236E-01 | 1.871E-04 |
| S0010 | 27 | 1 | 78933 | MEK | 7.412E-02 | 4.284E-05 |
| S0001 | 12 | 2 | 7439976 | Mercury | 1.355E+01 | 7.831E-03 |
| S0011 | 12 | 6 | 7439976 | Mercury | 8.432E-06 | 4.874E-09 |
| S0011 | 12 | 8 | 7439976 | Mercury | 3.312E-05 | 1.915E-08 |
| S0011 | 13 | 1 | 7439976 | Mercury | 4.216E-06 | 2.437E-09 |
| S0011 | 13 | 2 | 7439976 | Mercury | 2.108E-06 | 1.218E-09 |
| S0011 | 13 | 3 | 7439976 | Mercury | 2.108E-06 | 1.218E-09 |
| S0015 | 25 | 1 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0016 | 25 | 2 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0017 | 25 | 3 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0018 | 25 | 4 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0019 | 25 | 5 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0020 | 25 | 6 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0021 | 25 | 7 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0022 | 25 | 8 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0023 | 25 | 9 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0024 | 25 | 10 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0025 | 25 | 11 | 7439976 | Mercury | 5.810E-03 | 3.359E-06 |
| S0028 | 29 | 1 | 7439976 | Mercury | 8.990E-07 | 3.418E-09 |
| S0005 | 15 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0006 | 16 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0007 | 17 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0008 | 18 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0009 | 19 | 1 | 74839 | Methyl Bromide | 3.348E-02 | 1.935E-05 |
| S0010 | 20 | 1 | 74839 | Methyl Bromide | 4.066E-02 | 2.350E-05 |
| S0010 | 27 | 1 | 74839 | Methyl Bromide | 9.312E-03 | 5.383E-06 |
| S0005 | 15 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0006 | 16 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0007 | 17 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0008 | 18 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0009 | 19 | 1 | 75092 | Methylene Chlor | 1.845E-03 | 1.066E-06 |
| S0010 | 20 | 1 | 75092 | Methylene Chlor | 2.240E-03 | 1.295E-06 |
| S0010 | 27 | 1 | 75092 | Methylene Chlor | 5.131E-04 | 2.966E-07 |
| S0001 | 12 | 2 | 91203 | Naphthalene | 2.860E+01 | 1.653E-02 |

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| S0002 | 12 | 3 | 91203 | Naphthalene | 2.047E-01 | 1.183E-04 |
| S0002 | 12 | 4 | 91203 | Naphthalene | 1.887E-01 | 1.091E-04 |
| S0003 | 7 | 1 | 91203 | Naphthalene | 9.772E-04 | 1.115E-07 |
| S0004 | 9 | 1 | 91203 | Naphthalene | 1.878E-03 | 2.144E-07 |
| S0005 | 15 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0006 | 16 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0007 | 17 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0008 | 18 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0009 | 19 | 1 | 91203 | Naphthalene | 3.507E-01 | 2.027E-04 |
| S0010 | 20 | 1 | 91203 | Naphthalene | 4.260E-01 | 2.462E-04 |
| S0010 | 27 | 1 | 91203 | Naphthalene | 9.756E-02 | 5.639E-05 |
| S0028 | 29 | 1 | 91203 | Naphthalene | 8.855E-06 | 3.367E-08 |
| S0001 | 12 | 1 | 7664417 | NH3 | 3.158E+02 | 1.825E-01 |
| S0003 | 7 | 1 | 7664417 | NH3 | 1.042E+01 | 1.190E-03 |
| S0004 | 9 | 1 | 7664417 | NH3 | 2.003E+01 | 2.287E-03 |
| S0028 | 29 | 1 | 7664417 | NH3 | 3.596E-04 | 1.367E-06 |
| S0001 | 12 | 2 | 7440020 | Nickel | 4.516E+00 | 2.610E-03 |
| S0011 | 11 | 1 | 7440020 | Nickel | 6.512E-04 | 3.764E-07 |
| S0011 | 11 | 2 | 7440020 | Nickel | 4.558E-03 | 2.635E-06 |
| S0011 | 11 | 3 | 7440020 | Nickel | 7.235E-05 | 4.182E-08 |
| S0011 | 12 | 6 | 7440020 | Nickel | 2.710E-03 | 1.567E-06 |
| S0011 | 12 | 8 | 7440020 | Nickel | 1.065E-02 | 6.155E-06 |
| S0011 | 13 | 1 | 7440020 | Nickel | 1.355E-03 | 7.833E-07 |
| S0011 | 13 | 2 | 7440020 | Nickel | 6.776E-04 | 3.917E-07 |
| S0011 | 13 | 3 | 7440020 | Nickel | 6.776E-04 | 3.917E-07 |
| S0011 | 28 | 1 | 7440020 | Nickel | 6.512E-04 | 3.764E-07 |
| S0011 | 28 | 2 | 7440020 | Nickel | 1.498E-03 | 8.657E-07 |
| S0011 | 28 | 3 | 7440020 | Nickel | 9.768E-05 | 5.646E-08 |
| S0011 | 28 | 4 | 7440020 | Nickel | 9.768E-04 | 5.646E-07 |
| S0011 | 28 | 6 | 7440020 | Nickel | 1.177E-02 | 6.802E-06 |
| S0012 | 11 | 4 | 7440020 | Nickel | 6.202E-06 | 3.585E-09 |
| S0013 | 11 | 5 | 7440020 | Nickel | 1.023E-05 | 5.915E-09 |
| S0014 | 28 | 5 | 7440020 | Nickel | 1.395E-05 | 8.066E-09 |
| S0015 | 25 | 1 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0016 | 25 | 2 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0017 | 25 | 3 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0018 | 25 | 4 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0019 | 25 | 5 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0020 | 25 | 6 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0021 | 25 | 7 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0022 | 25 | 8 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0023 | 25 | 9 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0024 | 25 | 10 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0025 | 25 | 11 | 7440020 | Nickel | 2.440E-02 | 1.411E-05 |
| S0026 | 23 | 1 | 7440020 | Nickel | 1.287E-01 | 7.437E-05 |
| S0028 | 14 | 1 | 7440020 | Nickel | 2.300E-04 | 1.329E-07 |
| S0028 | 14 | 2 | 7440020 | Nickel | 4.500E-05 | 2.601E-08 |
| S0028 | 24 | 1 | 7440020 | Nickel | 3.390E-03 | 1.960E-06 |
| S0028 | 29 | 1 | 7440020 | Nickel | 1.753E-06 | 6.665E-09 |
| S0002 | 12 | 3 | 95476 | o-Xylene | 3.075E+00 | 1.778E-03 |
| S0002 | 12 | 4 | 95476 | o-Xylene | 1.207E-01 | 6.980E-05 |
| S0005 | 15 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0006 | 16 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0007 | 17 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0008 | 18 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0009 | 19 | 1 | 95476 | o-Xylene | 3.894E-01 | 2.251E-04 |
| S0010 | 20 | 1 | 95476 | o-Xylene | 4.730E-01 | 2.734E-04 |
| S0010 | 27 | 1 | 95476 | o-Xylene | 1.083E-01 | 6.262E-05 |
| S0003 | 7 | 1 | 1151 | PAHs-w/o | 3.257E-04 | 3.718E-08 |
| S0004 | 9 | 1 | 1151 | PAHs-w/o | 6.260E-04 | 7.146E-08 |

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| S0028 | 29 | 1 | 1151 | PAHs-w/o | 1.627E-05 | 6.187E-08 |
| S0001 | 12 | 2 | 198550 | Perylene | 3.896E-03 | 2.252E-06 |
| S0002 | 12 | 3 | 198550 | Perylene | 3.373E-03 | 1.950E-06 |
| S0002 | 12 | 4 | 198550 | Perylene | 3.321E-03 | 1.919E-06 |
| S0005 | 15 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0006 | 16 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0007 | 17 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0008 | 18 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0009 | 19 | 1 | 198550 | Perylene | 5.781E-03 | 3.342E-06 |
| S0010 | 20 | 1 | 198550 | Perylene | 7.021E-03 | 4.059E-06 |
| S0010 | 27 | 1 | 198550 | Perylene | 1.608E-03 | 9.295E-07 |
| S0001 | 12 | 2 | 85018 | Phenanthrene | 3.431E+00 | 1.983E-03 |
| S0002 | 12 | 3 | 85018 | Phenanthrene | 2.024E-01 | 1.170E-04 |
| S0002 | 12 | 4 | 85018 | Phenanthrene | 1.223E-01 | 7.067E-05 |
| S0005 | 15 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0006 | 16 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0007 | 17 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0008 | 18 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0009 | 19 | 1 | 85018 | Phenanthrene | 3.469E-01 | 2.005E-04 |
| S0010 | 20 | 1 | 85018 | Phenanthrene | 4.213E-01 | 2.435E-04 |
| S0010 | 27 | 1 | 85018 | Phenanthrene | 9.649E-02 | 5.577E-05 |
| S0001 | 12 | 2 | 7723140 | Phosphorus | 1.240E+01 | 7.165E-03 |
| S0015 | 25 | 1 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0016 | 25 | 2 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0017 | 25 | 3 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0018 | 25 | 4 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0019 | 25 | 5 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0020 | 25 | 6 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0021 | 25 | 7 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0022 | 25 | 8 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0023 | 25 | 9 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0024 | 25 | 10 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0025 | 25 | 11 | 7723140 | Phosphorus | 6.205E-01 | 3.587E-04 |
| S0001 | 12 | 2 | 129000 | Pyrene | 3.117E+00 | 1.802E-03 |
| S0002 | 12 | 3 | 129000 | Pyrene | 4.948E-02 | 2.860E-05 |
| S0002 | 12 | 4 | 129000 | Pyrene | 2.264E-02 | 1.309E-05 |
| S0005 | 15 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0006 | 16 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0007 | 17 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0008 | 18 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0009 | 19 | 1 | 129000 | Pyrene | 8.479E-02 | 4.901E-05 |
| S0010 | 20 | 1 | 129000 | Pyrene | 1.030E-01 | 5.953E-05 |
| S0010 | 27 | 1 | 129000 | Pyrene | 2.359E-02 | 1.363E-05 |
| S0001 | 12 | 2 | 7782492 | Selenium | 8.810E-01 | 5.092E-04 |
| S0015 | 25 | 1 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0016 | 25 | 2 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0017 | 25 | 3 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0018 | 25 | 4 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0019 | 25 | 5 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0020 | 25 | 6 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0021 | 25 | 7 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0022 | 25 | 8 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0023 | 25 | 9 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0024 | 25 | 10 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0025 | 25 | 11 | 7782492 | Selenium | 3.874E-04 | 2.239E-07 |
| S0028 | 29 | 1 | 7782492 | Selenium | 9.889E-07 | 3.760E-09 |
| S0011 | 11 | 1 | 1175 | Silica, Crystln | 5.134E-01 | 2.968E-04 |
| S0011 | 11 | 2 | 1175 | Silica, Crystln | 3.594E+00 | 2.077E-03 |
| S0011 | 11 | 3 | 1175 | Silica, Crystln | 5.704E-02 | 3.297E-05 |
| S0011 | 12 | 6 | 1175 | Silica, Crystln | 3.442E+00 | 1.990E-03 |

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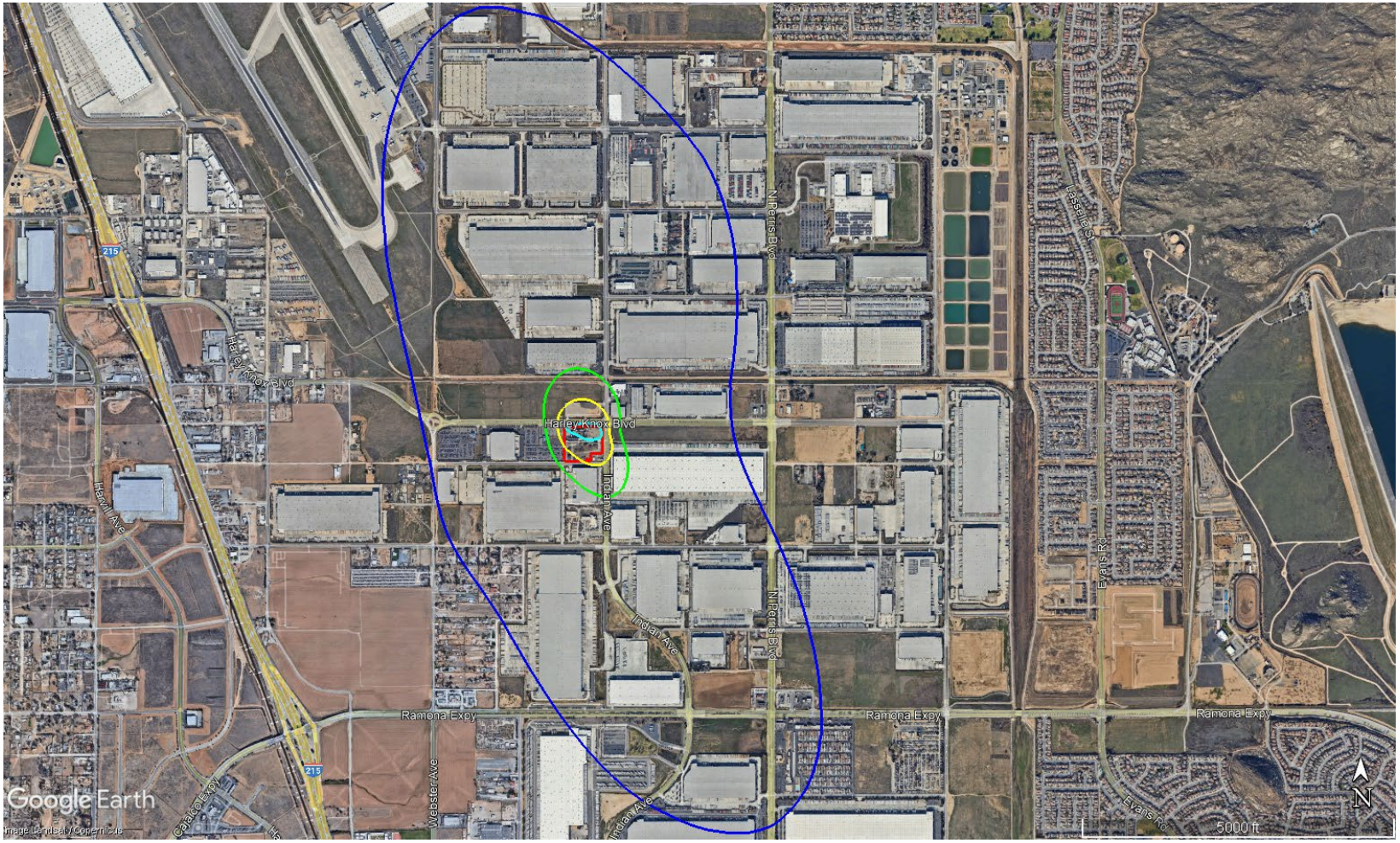
| S0011 | 12 | 8 | 1175 | Silica, Crystln | 1.352E+01 | 7.817E-03 |
| S0011 | 13 | 1 | 1175 | Silica, Crystln | 1.721E+00 | 9.949E-04 |
| S0011 | 13 | 2 | 1175 | Silica, Crystln | 8.606E-01 | 4.975E-04 |
| S0011 | 13 | 3 | 1175 | Silica, Crystln | 8.606E-01 | 4.975E-04 |
| S0011 | 28 | 1 | 1175 | Silica, Crystln | 5.134E-01 | 2.968E-04 |
| S0011 | 28 | 2 | 1175 | Silica, Crystln | 1.181E+00 | 6.825E-04 |
| S0011 | 28 | 3 | 1175 | Silica, Crystln | 7.701E-02 | 4.451E-05 |
| S0011 | 28 | 4 | 1175 | Silica, Crystln | 7.701E-01 | 4.451E-04 |
| S0011 | 28 | 6 | 1175 | Silica, Crystln | 9.278E+00 | 5.363E-03 |
| S0012 | 11 | 4 | 1175 | Silica, Crystln | 4.889E-03 | 2.826E-06 |
| S0013 | 11 | 5 | 1175 | Silica, Crystln | 8.067E-03 | 4.663E-06 |
| S0014 | 28 | 5 | 1175 | Silica, Crystln | 1.100E-02 | 6.359E-06 |
| S0026 | 23 | 1 | 1175 | Silica, Crystln | 1.311E+02 | 7.580E-02 |
| S0001 | 12 | 2 | 7440224 | Silver | 2.125E-01 | 1.228E-04 |
| S0015 | 25 | 1 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0016 | 25 | 2 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0017 | 25 | 3 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0018 | 25 | 4 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0019 | 25 | 5 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0020 | 25 | 6 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0021 | 25 | 7 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0022 | 25 | 8 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0023 | 25 | 9 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0024 | 25 | 10 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0025 | 25 | 11 | 7440224 | Silver | 3.486E-03 | 2.015E-06 |
| S0002 | 12 | 3 | 100425 | Styrene | 2.913E-01 | 1.684E-04 |
| S0002 | 12 | 4 | 100425 | Styrene | 1.344E-01 | 7.769E-05 |
| S0005 | 15 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0006 | 16 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0007 | 17 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0008 | 18 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0009 | 19 | 1 | 100425 | Styrene | 3.689E-02 | 2.133E-05 |
| S0010 | 20 | 1 | 100425 | Styrene | 4.481E-02 | 2.590E-05 |
| S0010 | 27 | 1 | 100425 | Styrene | 1.026E-02 | 5.932E-06 |
| S0001 | 12 | 2 | 7440280 | Thallium | 1.815E-03 | 1.049E-06 |
| S0001 | 12 | 2 | 108883 | Toluene | 2.351E+01 | 1.359E-02 |
| S0002 | 12 | 3 | 108883 | Toluene | 3.345E+00 | 1.933E-03 |
| S0002 | 12 | 4 | 108883 | Toluene | 3.867E+00 | 2.235E-03 |
| S0003 | 7 | 1 | 108883 | Toluene | 1.192E-01 | 1.361E-05 |
| S0004 | 9 | 1 | 108883 | Toluene | 2.291E-01 | 2.615E-05 |
| S0005 | 15 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0006 | 16 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0007 | 17 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0008 | 18 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0009 | 19 | 1 | 108883 | Toluene | 4.236E-01 | 2.448E-04 |
| S0010 | 20 | 1 | 108883 | Toluene | 5.145E-01 | 2.974E-04 |
| S0010 | 27 | 1 | 108883 | Toluene | 1.178E-01 | 6.811E-05 |
| S0028 | 29 | 1 | 108883 | Toluene | 4.738E-05 | 1.801E-07 |
| S0002 | 12 | 4 | 75694 | TriClFluorMetha | 2.394E-02 | 1.384E-05 |
| S0011 | 11 | 1 | 7440622 | Vanadium | 1.190E-03 | 6.879E-07 |
| S0011 | 11 | 2 | 7440622 | Vanadium | 8.331E-03 | 4.815E-06 |
| S0011 | 11 | 3 | 7440622 | Vanadium | 1.322E-04 | 7.644E-08 |
| S0011 | 12 | 6 | 7440622 | Vanadium | 1.137E-02 | 6.571E-06 |
| S0011 | 12 | 8 | 7440622 | Vanadium | 4.466E-02 | 2.581E-05 |
| S0011 | 13 | 1 | 7440622 | Vanadium | 5.684E-03 | 3.286E-06 |
| S0011 | 13 | 2 | 7440622 | Vanadium | 2.737E-03 | 1.582E-06 |
| S0011 | 13 | 3 | 7440622 | Vanadium | 2.842E-03 | 1.643E-06 |
| S0011 | 28 | 1 | 7440622 | Vanadium | 1.190E-03 | 6.879E-07 |
| S0011 | 28 | 2 | 7440622 | Vanadium | 2.842E-03 | 1.643E-06 |
| S0011 | 28 | 3 | 7440622 | Vanadium | 1.785E-04 | 1.032E-07 |

| | | | | | | |
|---|---|---|---|---|---|---|
| S0011 | 28 | 4 | 7440622 | Vanadium | 1.785E-03 | 6.425E-07 |
| S0011 | 28 | 6 | 7440622 | Vanadium | 2.151E-02 | 7.741E-06 |
| S0012 | 11 | 4 | 7440622 | Vanadium | 1.133E-05 | 4.079E-09 |
| S0013 | 11 | 5 | 7440622 | Vanadium | 1.870E-05 | 6.731E-09 |
| S0014 | 28 | 5 | 7440622 | Vanadium | 2.550E-05 | 9.178E-09 |
| S0015 | 25 | 1 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0016 | 25 | 2 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0017 | 25 | 3 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0018 | 25 | 4 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0019 | 25 | 5 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0020 | 25 | 6 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0021 | 25 | 7 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0022 | 25 | 8 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0023 | 25 | 9 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0024 | 25 | 10 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0025 | 25 | 11 | 7440622 | Vanadium | 1.209E-01 | 6.986E-05 |
| S0026 | 23 | 1 | 7440622 | Vanadium | 2.351E-01 | 1.359E-04 |
| S0001 | 12 | 2 | 1330207 | Xylenes | 2.338E+01 | 1.351E-02 |
| S0002 | 12 | 3 | 1330207 | Xylenes | 1.079E+01 | 6.237E-03 |
| S0002 | 12 | 4 | 1330207 | Xylenes | 6.188E-01 | 3.577E-04 |
| S0003 | 7 | 1 | 1330207 | Xylenes | 8.860E-02 | 1.011E-05 |
| S0004 | 9 | 1 | 1330207 | Xylenes | 1.703E-01 | 1.944E-05 |
| S0005 | 15 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0006 | 16 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0007 | 17 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0008 | 18 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0009 | 19 | 1 | 1330207 | Xylenes | 1.366E+00 | 7.898E-04 |
| S0010 | 20 | 1 | 1330207 | Xylenes | 1.660E+00 | 9.593E-04 |
| S0010 | 27 | 1 | 1330207 | Xylenes | 3.801E-01 | 2.197E-04 |
| S0028 | 29 | 1 | 1330207 | Xylenes | 1.906E-05 | 7.246E-08 |
| S0001 | 12 | 2 | 7440666 | Zinc | 1.133E+01 | 6.551E-03 |
| S0011 | 11 | 1 | 7440666 | Zinc | 1.729E-03 | 9.994E-07 |
| S0011 | 11 | 2 | 7440666 | Zinc | 1.210E-02 | 6.996E-06 |
| S0011 | 11 | 3 | 7440666 | Zinc | 1.921E-04 | 1.110E-07 |
| S0011 | 12 | 6 | 7440666 | Zinc | 3.125E-02 | 1.806E-05 |
| S0011 | 12 | 8 | 7440666 | Zinc | 1.863E-01 | 1.077E-04 |
| S0011 | 13 | 1 | 7440666 | Zinc | 2.371E-02 | 1.371E-05 |
| S0011 | 13 | 2 | 7440666 | Zinc | 3.977E-03 | 2.299E-06 |
| S0011 | 13 | 3 | 7440666 | Zinc | 1.186E-02 | 6.854E-06 |
| S0011 | 28 | 1 | 7440666 | Zinc | 1.729E-03 | 9.994E-07 |
| S0011 | 28 | 2 | 7440666 | Zinc | 1.186E-02 | 6.854E-06 |
| S0011 | 28 | 3 | 7440666 | Zinc | 2.594E-04 | 1.499E-07 |
| S0011 | 28 | 4 | 7440666 | Zinc | 2.594E-03 | 1.499E-06 |
| S0011 | 28 | 6 | 7440666 | Zinc | 4.743E-02 | 2.742E-05 |
| S0012 | 11 | 4 | 7440666 | Zinc | 1.647E-05 | 9.518E-09 |
| S0013 | 11 | 5 | 7440666 | Zinc | 2.717E-05 | 1.571E-08 |
| S0014 | 28 | 5 | 7440666 | Zinc | 3.705E-05 | 2.142E-08 |
| S0015 | 25 | 1 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0016 | 25 | 2 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0017 | 25 | 3 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0018 | 25 | 4 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0019 | 25 | 5 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0020 | 25 | 6 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0021 | 25 | 7 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0022 | 25 | 8 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0023 | 25 | 9 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0024 | 25 | 10 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0025 | 25 | 11 | 7440666 | Zinc | 2.409E-01 | 1.393E-04 |
| S0026 | 23 | 1 | 7440666 | Zinc | 3.416E-01 | 1.975E-04 |

# ATTACHMENT "B"

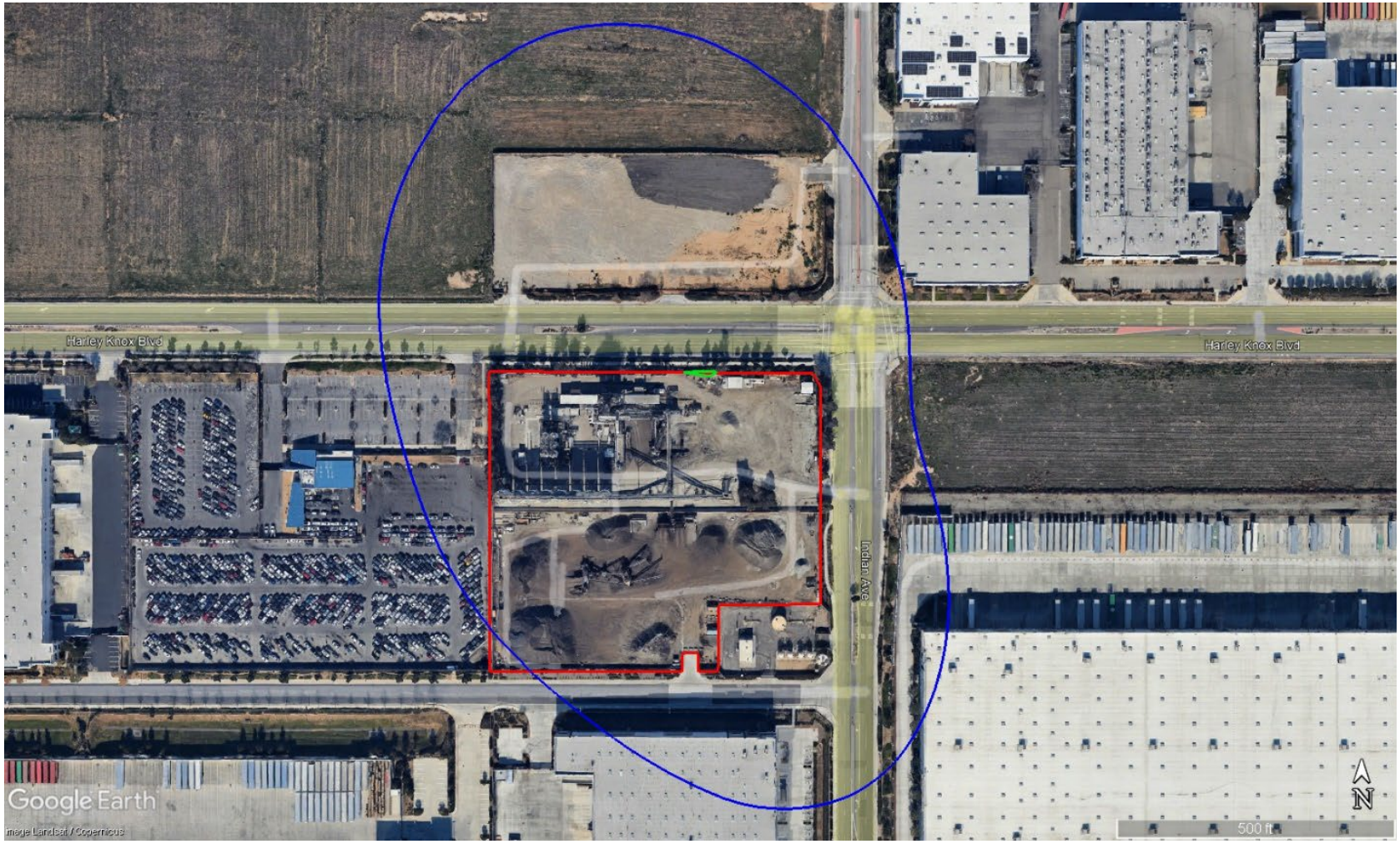
# ISOPLETHS




Facility Boundary
1 chance in-one-million Cancer Risk
10 chances in-one-million Cancer Risk
25 chances in-one-million Cancer Risk
100 chances in-one-million Cancer Risk

**Figure B1 – 30 Year Resident Cancer Risk (chances in-one-million)**

Modified by South Coast AQMD




Facility Boundary
1 chance in-one-million Cancer Risk
10 chances in-one-million Cancer Risk

**Figure B2 – 25 Year Worker Cancer Risk (chances in-one-million)**

Modified by South Coast AQMD


Facility Boundary

Hazard Index of 0.5

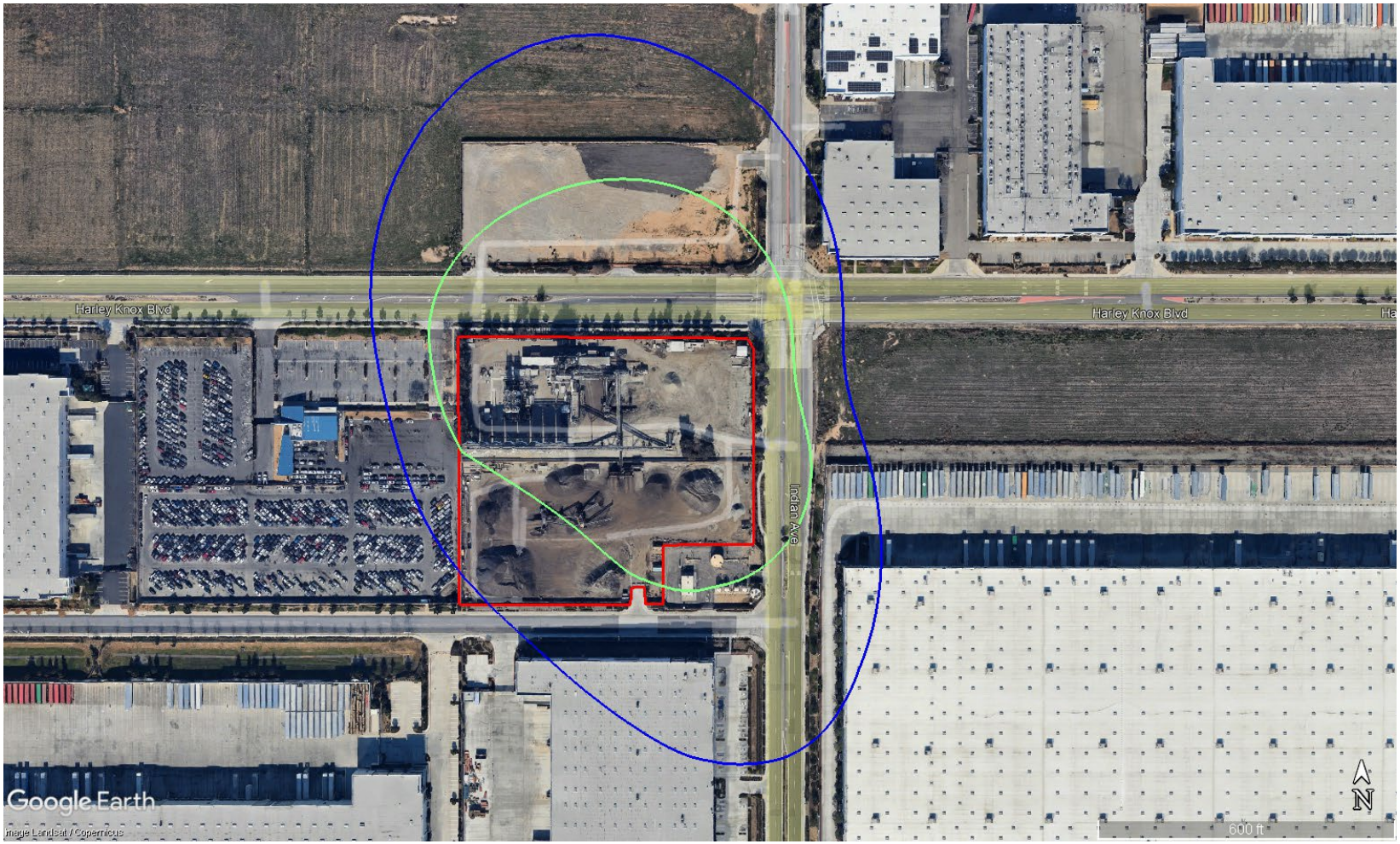
**Figure B3 – Acute Risk**

Modified by South Coast AQMD


Facility Boundary
Hazard Index of 0.5
Hazard Index of 1

**Figure B4 – Chronic Worker**

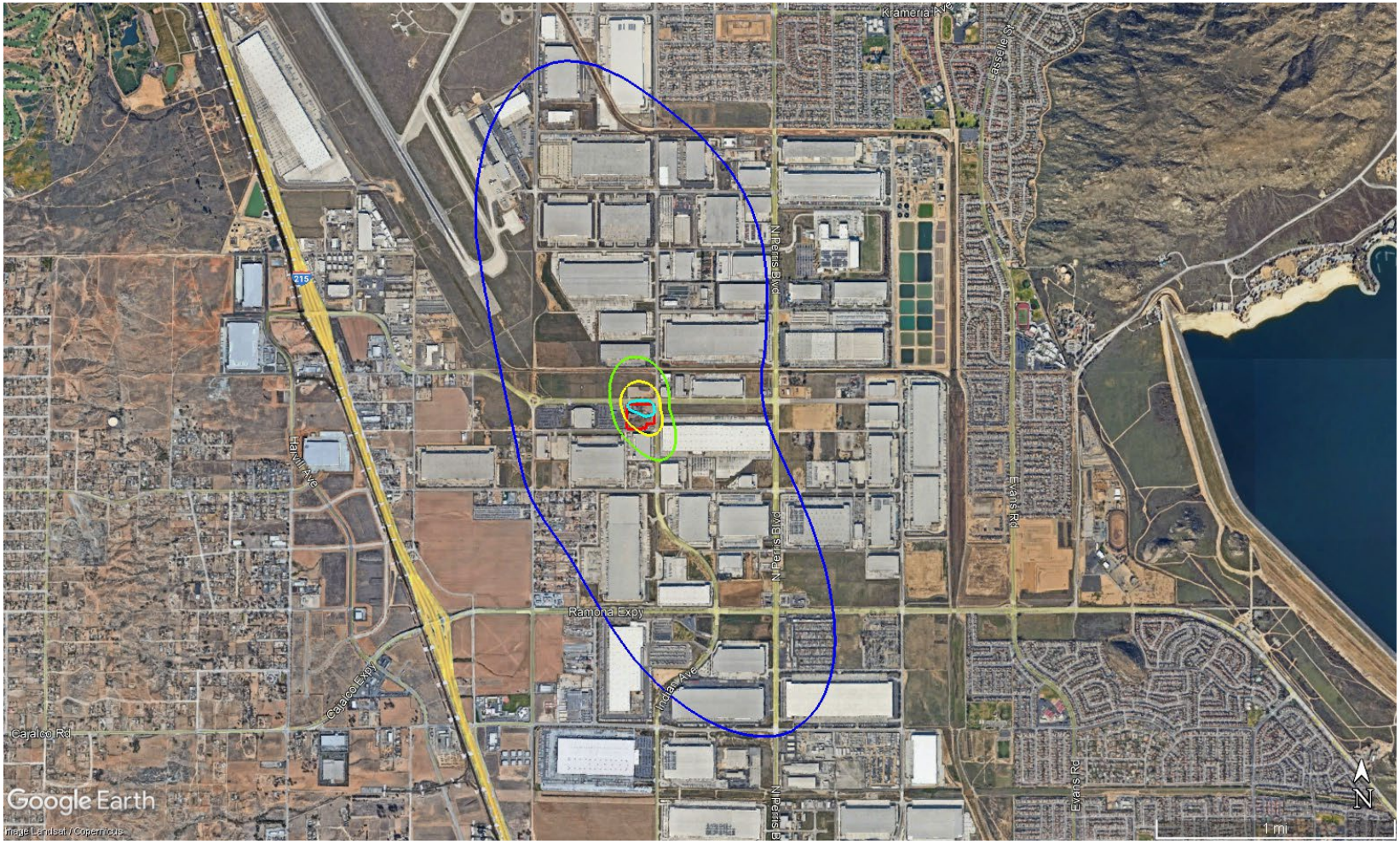
Modified by South Coast AQMD




Facility Boundary
Hazard Index of 0.5
Hazard Index of 1

**Figure B5 – Chronic Resident**

Modified by South Coast AQMD




Facility Boundary
1 chance in-one-million Cancer Risk
10 chances in-one-million Cancer Risk
25 chances in-one-million Cancer Risk
100 chances in-one-million Cancer Risk

**Figure B6 – 70-Year Cancer Risk**

Modified by South Coast AQMD

# ATTACHMENT "C"

# HEALTH DATA TABLES

# (SEE PROVIDED ELECTRONIC COPY)

# ATTACHMENT "D"

# FLOW DIAGRAM

# ATTACHMENT "E"

# CANCER BURDEN

| Receptor No. | Track No. | Block No. | Census Coordinates | | Population x | Cancer Risk = | Cancer Burden |
|---|---|---|---|---|---|---|---|
| | | | X(m) | Y(m) | | | |
| 10783 | 42507 | 1013 | 478074.37 | 3748143.8 | 20 | 1.28E-06 | 2.56E-05 |
| 10784 | 42507 | 1014 | 478685.45 | 3747578.94 | 3 | 1.30E-06 | 3.89E-06 |
| 10785 | 42507 | 1015 | 477868.38 | 3747576.7 | 0 | 2.03E-06 | 0.00E+00 |
| 10803 | 42620 | 1012 | 478698.17 | 3746608.3 | 0 | 1.79E-06 | 0.00E+00 |
| 10804 | 42620 | 1013 | 477854.95 | 3746576.07 | 0 | 4.92E-06 | 0.00E+00 |
| 10805 | 42620 | 1014 | 477829.22 | 3746607.51 | 0 | 4.36E-06 | 0.00E+00 |
| 10806 | 42620 | 1015 | 477874.29 | 3746457.39 | 0 | 5.38E-06 | 0.00E+00 |
| 10807 | 42620 | 1016 | 478284.44 | 3746498.8 | 0 | 1.50E-05 | 0.00E+00 |
| 10808 | 42620 | 1017 | 477454.71 | 3746462.04 | 0 | 1.37E-06 | 0.00E+00 |
| 10809 | 42620 | 1018 | 478738.99 | 3746581.71 | 0 | 1.61E-06 | 0.00E+00 |
| 10784 | 42507 | 1014 | 478685.45 | 3746465.85 | 3 | 1.82E-06 | 5.46E-06 |
| 10814 | 42620 | 1023 | 478665.89 | 3746072.84 | 4 | 2.59E-06 | 1.04E-05 |
| 10815 | 42620 | 1024 | 477862.82 | 3746260.95 | 0 | 4.28E-06 | 0.00E+00 |
| 10817 | 42620 | 1026 | 477446.83 | 3746374.91 | 0 | 1.31E-06 | 0.00E+00 |
| 10818 | 42620 | 1027 | 477375.64 | 3746470.98 | 0 | 1.21E-06 | 0.00E+00 |
| 10828 | 42620 | 1037 | 477863.6 | 3745959.8 | 5 | 2.73E-06 | 1.37E-05 |
| 10846 | 42620 | 1055 | 477792.47 | 3745290.39 | 231 | 1.12E-06 | 2.58E-04 |
| 10847 | 42620 | 1056 | 478080.71 | 3745555.49 | 0 | 2.25E-06 | 0.00E+00 |
| 10853 | 42620 | 1062 | 478376.65 | 3744455.14 | 0 | 1.07E-06 | 0.00E+00 |
| 10854 | 42620 | 1063 | 478465.14 | 3744760.41 | 0 | 1.45E-06 | 0.00E+00 |
| 10855 | 42620 | 1064 | 478862.54 | 3744735.79 | 0 | 1.51E-06 | 0.00E+00 |
| 10856 | 42620 | 1065 | 478884.37 | 3745146.98 | 10 | 1.94E-06 | 1.94E-05 |
| 10857 | 42620 | 1066 | 478686.37 | 3745552.12 | 6 | 3.01E-06 | 1.81E-05 |
| 10858 | 42620 | 1067 | 478953.37 | 3745809.98 | 0 | 1.56E-06 | 0.00E+00 |
| 10862 | 42620 | 1071 | 478481.66 | 3745149.43 | 0 | 2.15E-06 | 0.00E+00 |
| 10879 | 42620 | 1104 | 479211.12 | 3744591.32 | 0 | 1.21E-06 | 0.00E+00 |
| 10883 | 42620 | 1108 | 479357.62 | 3744566.95 | 44 | 1.09E-06 | 4.79E-05 |
| 10884 | 42620 | 1109 | 479352.35 | 3744614.19 | 78 | 1.11E-06 | 8.62E-05 |
| 10885 | 42620 | 1110 | 479344.79 | 3744668.87 | 74 | 1.13E-06 | 8.33E-05 |
| 10891 | 42620 | 1116 | 479341.79 | 3744779.31 | 120 | 1.15E-06 | 1.38E-04 |
| 10894 | 42620 | 1119 | 479341.86 | 3744724.87 | 120 | 1.14E-06 | 1.37E-04 |
| 10897 | 42620 | 1122 | 479342.28 | 3744835.08 | 124 | 1.15E-06 | 1.43E-04 |

| Receptor No. | Track No. | Block No. | Census Coordinates | | Population x | Cancer Risk = | Cancer Burden |
|---|---|---|---|---|---|---|---|
| | | | X(m) | Y(m) | | | |
| 10910 | 42620 | 1158 | 477449.35 | 3746466.04 | 0 | 1.36E-06 | 0.00E+00 |
| 10911 | 42620 | 1159 | 477251.98 | 3746516.4 | 0 | 1.03E-06 | 0.00E+00 |
| 10926 | 46700 | 1116 | 477244.4 | 3746557.45 | 0 | 1.03E-06 | 0.00E+00 |
| 10927 | 46700 | 1117 | 477434.58 | 3746556.44 | 0 | 1.37E-06 | 0.00E+00 |
| 10928 | 46700 | 1118 | 477434.16 | 3746806.02 | 0 | 1.52E-06 | 0.00E+00 |
| 10931 | 46700 | 1200 | 477477.79 | 3746991.53 | 0 | 1.75E-06 | 0.00E+00 |
| 10982 | 48800 | 1021 | 478684.2 | 3747020.57 | 20 | 1.75E-06 | 3.51E-05 |
| 10983 | 48800 | 1022 | 477881.65 | 3746999.23 | 6 | 3.61E-06 | 2.17E-05 |
| 10984 | 48800 | 1023 | 477795.31 | 3746702.95 | 0 | 3.75E-06 | 0.00E+00 |
| 10985 | 48800 | 1024 | 478074.61 | 3746602.18 | 0 | 1.18E-05 | 0.00E+00 |
| 10986 | 48800 | 1025 | 478716.1 | 3746643.52 | 0 | 1.72E-06 | 0.00E+00 |
| 10987 | 48800 | 1026 | 477622.1 | 3746602.56 | 0 | 2.12E-06 | 0.00E+00 |
| 10988 | 48800 | 1027 | 477819.66 | 3746633.04 | 0 | 4.17E-06 | 0.00E+00 |
| **Total Cancer Burden =1.05E-03** | | | | | | | |

# ATTACHMENT "F"

# MULTIPATHWAY POLLUTANTS

| Multi-pathway Pollutant | INHALATION | SOIL | DERMAL | Mother's MILK | Drinking | FISH | CROP | DAIRY | MEAT & EGG |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | x | x | x | | x | x | x | x | x |
| B(a)anthracene | x | x | x | x | x | x | x | x | x |
| B(a)P | x | x | x | x | x | x | x | x | x |
| B(b)fluoranthen | x | x | x | x | x | x | x | x | x |
| B(k)fluoranthen | x | x | x | x | x | x | x | x | x |
| Beryllium | x | x | x | | x | x | x | x | x |
| Cadmium | x | x | x | | x | x | x | x | x |
| Cr(VI) | x | x | x | | x | x | x | x | x |
| Chrysene | x | x | x | x | x | x | x | x | x |
| D(a,h)anthracen | x | x | x | x | x | x | x | x | x |
| In(1,2,3-cd)pyr | x | x | x | x | x | x | x | x | x |
| Lead | x | x | x | x | x | x | x | x | x |
| Mercury | x | x | x | | x | x | x | x | x |
| Nickel | x | x | x | | x | | x | x | x |
| PAHs-w/o | x | x | x | x | x | x | x | x | x |

# ATTACHMENT "G"

# TARGET ORGANS BY TAC

| Compound | CAS Number / Pollutant ID | Acute Target Organs | | | | | | | Chronic Target Organs | | | | | | | | | | | 8-Hr Chronic Target Organs | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Central Nervous System | Cardiovascular | Immune System | Reproductive Development | Respiratory System | Eye | Blood | Cardiovascular | Central Nervous System | Immune System | Kidney | GILV | Reproductive Development | Respiratory System | Skin | Eye | Endocrine | Blood | Cardiovascular | Central Nervous System | Immune System | Kidney | Reproductive Development | Respiratory System | Skin | Eye | Blood |
| 1,1,1-TCA | 71556 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3-Butadiene | 106990 | | | | X | | | | | | | | | X | | | | | | | | | | X | | | | |
| 2,2,4TriMePentn | 540841 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2MENaphthalene | 91576 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | 83329 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthylene | 208968 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acetaldehyde | 75070 | | | | | X | X | | | | | | | | X | | | | | | | | | | X | | | |
| Acrolein | 107028 | | | | | X | X | | | | | | | | X | | | | | | | | | | X | | | |
| Aluminium | 7429905 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ammonia | 7664417 | | | | | X | X | | | | | | | | X | | | | | | | | | | | | | |
| Anthracene | 120127 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | 7440360 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 7440382 | X | X | | X | | | | X | X | | | | X | X | X | | | | X | X | | | X | X | X | | |
| B(a)anthracene | 56553 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B(a)P | 50328 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B(b)fluoranthene | 205992 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B[e]pyrene | 192972 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Compound | CAS Number / Pollutant ID | Acute Target Organs | | | | | | | Chronic Target Organs | | | | | | | | | | | 8-Hr Chronic Target Organs | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Central Nervous System | Cardiovascular | Immune System | Reproductive Development | Respiratory System | Eye | Blood | Cardiovascular | Central Nervous System | Immune System | Kidney | GILV | Reproductive Development | Respiratory System | Skin | Eye | Endocrine | Blood | Cardiovascular | Central Nervous System | Immune System | Kidney | Reproductive Development | Respiratory System | Skin | Eye | Blood |
| B[g,h,i]perylene | 191242 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B(k)fluoranthene | 207089 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barium | 7440393 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzene | 71432 | | | X | X | | | X | | | | | | | | | | | X | | | | | | | | | X |
| Beryllium | 7440417 | | | | | | | | | | X | | X | | X | | | | | | | | | | | | | |
| Bromine | 7726956 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium | 7440439 | | | | | | | | | | | X | | | X | | | | | | | | | | | | | |
| Carbon Disulfide | 75150 | X | | | X | | | | | X | | | | X | | | | | | | | | | | | | | |
| Chlorine | 7782505 | | | | | X | X | | | | | | | | | | | | | | | | | | | | | |
| Chromium | 7440473 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chrysene | 218019 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cobalt | 7440484 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper | 7440508 | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Cr(VI) | 18540299 | | | | | | | | | | | | | | X | | | | X | | | | | | | | | |
| D(a,h)anthracen | 53703 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DPM | 9901 | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Ethyl Benzene | 100414 | | | | | | | | | | | X | X | X | | | | X | | | | | | | | | | |

| Compound | CAS Number / Pollutant ID | Acute Target Organs | | | | | | | Chronic Target Organs | | | | | | | | | | 8-Hr Chronic Target Organs | | | | | | | | |
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| | | Central Nervous System | Cardiovascular | Immune System | Reproductive Development | Respiratory System | Eye | Blood | Cardiovascular | Central Nervous System | Immune System | Kidney | GILV | Reproductive Development | Respiratory System | Skin | Eye | Endocrine | Blood | Cardiovascular | Central Nervous System | Immune System | Kidney | Reproductive Development | Respiratory System | Skin | Eye | Blood |
| **Ethyl Chloride** | **75003** | | | | | | | | | | | | **X** | **X** | | | | | | | | | | | | | | |
| **Fluoranthene** | **206440** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Fluorene** | **86737** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Formaldehyde** | **50000** | | | | | | **X** | | | | | | | | **X** | | | | | | | | | | **X** | | | |
| **Hydrogen Sulfide** | **77833064** | **X** | | | | | | | | | | | | | **X** | | | | | | | | | | | | | |
| **Hydrochloric Acid** | **7647010** | | | | | **X** | **X** | | | | | | | | **X** | | | | | | | | | | | | | |
| **Hexane** | **110543** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **In(1,2,3-cd)pyrene** | **193395** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Lead** | **7439921** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Manganese** | **7439965** | | | | | | | | | **X** | | | | | | | | | | | **X** | | | | | | | |
| **Mercury** | **7439976** | **X** | | | **X** | | | | | **X** | | **X** | | **X** | | | | | | | **X** | | **X** | **X** | | | | |
| **Methyl Bromide** | **74839** | **X** | | | **X** | **X** | | | | **X** | | | | **X** | **X** | | | | | | | | | | | | | |
| **Methyl Ethyl Ketone** | **78933** | | | | | **X** | **X** | | | | | | | | | | | | | | | | | | | | | |
| **Methylene Chloride** | **75092** | **X** | **X** | | | | | | **X** | **X** | | | | | | | | | | | | | | | | | | |
| **Naphthalene** | **91203** | | | | | | | | | | | | | | **X** | | | | | | | | | | | | | |
| **Nickel** | **7440020** | | | **X** | | | | | | | | | | **X** | **X** | | | | **X** | | | **X** | | | **X** | | | |
| **o-Xylene** | **95476** | **X** | | | | **X** | **X** | | | **X** | | | | | **X** | | **X** | | | | | | | | | | | |

| Compound | CAS Number / Pollutant ID | Acute Target Organs | | | | | | | Chronic Target Organs | | | | | | | | | | 8-Hr Chronic Target Organs | | | | | | | | |
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| | | Central Nervous System | Cardiovascular | Immune System | Reproductive Development | Respiratory System | Eye | Blood | Cardiovascular | Central Nervous System | Immune System | Kidney | GILV | Reproductive Development | Respiratory System | Skin | Eye | Endocrine | Blood | Cardiovascular | Central Nervous System | Immune System | Kidney | Reproductive Development | Respiratory System | Skin | Eye | Blood |
| **PAHs-w/o** | **1151** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Perylene** | **198550** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Phenanthrene** | **85018** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Phosphorus** | **7723140** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Pyrene** | **129000** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Selenium** | **7782492** | | | | | | | | X | X | | | X | | | | | | | | | | | | | | | |
| **Silica, crystalline (respirable)** | **1175** | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| **Silver** | **7440224** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Styrene** | **100425** | | | | X | X | X | | | X | | | | | | | | | | | | | | | | | | |
| **Thallium** | **7440280** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Toluene** | **108883** | X | | | | X | X | | | | | | | | | | X | | | | | | | | | X | |
| **TriClFluorMetha** | **75694** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Vanadium** | **7440622** | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| **Xylenes** | **1330207** | X | | | | X | X | | | X | | | | | X | | X | | | | | | | | | | | |
| **Zinc** | **7440666** | | | | | | | | | | | | | | | | | | | | | | | | | | | |