

Naples, Italy – Public Health Evaluation

Volume II: Phase I Screening Risk Evaluation

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ACRONYMS AND ABBREVIATIONS

Acronym	Explanation
2,3,7,8-TCDD	2,3,7,8-Tetrachlorodibenzo-p-dioxin
AFN	American Forces Network
ASN (E&S)	Assistant Secretary of the Navy's Office for Environment and Safety
BaP	Benzo(a)pyrene
BGS	Below Ground Surface
CAG	Community Action Group
Campania	Campania Region of Italy
CCEF	Cumulative Cancer Exceedance Factor
CCR	Consumer Confidence Reports
CNCEF	Cumulative Noncancer Exceedance Factor
CNRE	Commander, Navy Region Europe
CNREURAFSWA	Commander Navy Region Europe, Africa, Southwest Asia
CO	Carbon Monoxide
CSF	Cancer Slope Factor
CSM	Conceptual Site Model
DNA	Deoxyribonucleic Acid
DoD	Department of Defense
DoDDS	Department of Defense Dependent Schools
<i>E-Coli</i>	Escherichia coli O157:H7
EEE	Emergency and Extraordinary Expense
EF	Exceedance Factor
EHIC	Environmental Health Information Center
EIMS	Environmental Information Management System
ETSA	Environmental Testing Support Assessment
GIS	Geographical Information Systems
GPS	Global Positioning System
HQ	Hazard Quotient
IEUBK	Integrated Exposure Uptake Biokinetic
IRIS	Integrated Risk Information Systems
JFC	Joint Forces Command
NAAQs	National Ambient Air Quality Standards
NATO	North Atlantic Treaty Organization
NAVFAC	Naval Facilities Engineering Command, Europe and Southwest Asia
NMCPHC	Navy and Marine Corps Public Health Center
NOx	Oxides of Nitrogen
NLSZ	New Lease Suspension Zone
NLZs	No Lease Zones
NSA	Naval Support Activity
PAH	Polycyclic Aromatic Hydrocarbons
PAO	Public Affairs Officer

Acronym	Explanation
PCBs	Polychlorinated Bi-phenyls
PDT	Per Diem Travel
PHE	Public Health Evaluation
PM ₁₀	Particulate Matter Less than 10 microns in diameter
RfC	Reference Concentrations
RfD	Reference Dose
RHAWG	Regional Health Awareness Group
RME	Reasonable Maximum Exposure
RSL	Regional Screening Level
SF	Slope Factor
SRE	Screening Risk Evaluation
SVOCs	Semi-Volatile Organic Compounds
TAC	Transportation Allowance Committee
TEF	Toxicity Equivalency Factor
TEQ	Toxic Equivalent
THM	Trihalomethane
Total THM	Total Trihalomethane
U.S.	United States
USEPA	United States Environmental Protection Agency
USMCL	United States Maximum Contaminant Levels
USN	United States Navy
VOCs	Volatile Organic Compounds

EXECUTIVE SUMMARY

1.1 Introduction

For more than a decade, the Campania region of Italy has experienced numerous challenges associated with trash collection, uncontrolled, open burning of uncollected trash, and widespread dumping of waste, including chemical and other potentially hazardous waste. Uncontrolled, open burning of uncollected trash is cyclical and typically peaks in late spring and summer. In response to health concerns expressed by the United States Navy (USN) and their civilian personnel and families, the Commander Navy Region Europe, Africa, Southwest Asia (CNREURAFSWA) contacted the Navy Bureau of Medicine and Surgery (BUMED) and requested that the Navy and Marine Corps Public Health Center (NMCPHC) conduct a comprehensive Public Health Evaluation (PHE). Because a comprehensive PHE will take over one year to complete, the USN has implemented a phased approach for this study.

Phase I of the PHE involves conducting a screening risk evaluation (SRE). The purpose of this SRE is to determine whether or not there are any potential health impacts associated with exposure to surface soil, indoor air, tap water¹, and ambient (outdoor) air to USN personnel (active duty, civilians, and their families) residing in the Naples area of Campania. This SRE was conducted in accordance with U.S. Environmental Protection Agency (USEPA) Risk Assessment Guidance and consistent, where appropriate, with the Naples, Italy Environmental Testing Support Assessment (ETSA) Work Plan (Tetra Tech, 2008a).

The results of this SRE will be used to determine:

- Whether or not exposure to surface soil, indoor air, tap water, and ambient air poses an unacceptable risk to USN personnel based on USEPA and USN risk assessment guidelines;
- If additional investigations are necessary to ensure the safety and well being of USN personnel residing in Naples area of Campania; and
- Data quality objectives and the scope of such investigations (e.g., number and locations of sample collection, analytical methods that should be pursued, et cetera).

This report utilizes information presented in several documents including:

- ETSA Work Plan (Tetra Tech, 2008a);
- ETSA Field Sampling Plan (Tetra Tech, 2008b);
- Phase I ETSA Report: Volume 1 (Tetra Tech, 2009); and
- Quality Assurance Project Plan (QAPP) (Tetra Tech, 2008c).

¹ Tap water refers to public water, private wells, and blended water sources. Blended water refers to non-permitted (illegal wells) that are connected to the public water supply system, resulting in blended public water and well water.

1.2 Site Location and Setting

The Campania region is located in southwestern Italy and is divided into five provinces: Napoli (Naples), Benevento, Avellino, Caserta and Salerno (see [Figure ES-1](#) and [Figure ES-2](#)). The region has a population of approximately 5.8 million people, making it the second-most-populous region of Italy. Naples is the capital city of Campania and of the province of Naples, and it is over 2,800 years old. The population of Naples proper is approximately one million people.

1.3 Study Areas

This SRE focused on the Naples area of Campania where USN personnel work and live. Since the geographical area being investigated was very large, the region was segregated into nine geographical study areas with a focus on identifying "clusters" of residential properties located near known or suspected waste sites ([Figure ES-3](#)). In other words, the SRE focused on the Naples area of Campania where the potential for detecting chemicals, based on Italian data regarding trash and chemical dump sites, was greatest. The nine study areas are listed below along with the U.S. government-related facilities that are located within the study area, and the approximate size of the study area in square miles. Combined, the study areas comprise approximately 395 square miles:

- Study Area 1 – Joint Forces Command (JFC) North Atlantic Treaty Organization (NATO) Site (approximately 30 square miles)
- Study Area 2 – U.S. Consulate (approximately 15 square miles)
- Study Area 3 – Capodichino (approximately 95 square miles)
- Study Area 4 – Carney Park (approximately 30 square miles) (Carney Park is located within Study Area 1 but was used to evaluate Study Area 4)
- Study Area 5 – Lago Patria Receiver Site/Parco Artemide (approximately 80 square miles)
- Study Area 6 – Gricignano Support Site (approximately 45 square miles)
- Study Area 7 – Parco Eva (USN-Leased Parco) (approximately 20 square miles)
- Study Area 8 – Villa (Home leased by the USN for the PHE) (approximately 30 square miles)
- Study Area 9 – Parco Le Ginestre (USN-Leased Parco) (approximately 50 square miles)

1.3.1 Summary of the Phase I SRE Process

One hundred and thirty economy homes (within the nine study areas) and 10 U.S. Government-related locations were sampled for soil, soil gas, tap water, and irrigation water (although not all media were sampled at all locations). Five ambient air samples were collected over a 30-day period (i.e., July 7, 2008 to August 8, 2008) from each of the nine semi-permanent sampling locations (see [Figure ES-3](#)).

In general, the environmental samples were analyzed for:

- Dioxins/Furans
- Semi-Volatile Organic Compounds (SVOCs)
- Volatile Organic Compounds (VOCs)
- Pesticides and Polychlorinated Bi-phenyls (PCBs)

- Inorganics
- Bacteriological Parameters (tap water samples only)
- Radiological Parameters (tap water samples only)²
- Aldehydes and Ketones (air samples only)
- Nitrates (tap water samples only)
- Particulate Matter less than 10 microns in diameter (PM₁₀), PM₁₀ metals, carbon monoxide (CO), mercury vapor, oxides of nitrogen (NO_x), ozone, sulfur dioxide (air samples only)

A biased sampling design was implemented in order to sample areas within the Naples area of Campania where USN personnel work and live with the highest potential of being impacted by burning of trash or dumping of chemical waste. To achieve this, Italian data regarding trash and chemical dump sites were reviewed in order to collect samples from these "worst-case" areas (see [Figure ES-4](#)).

1.4 Conceptual Site Model

A conceptual site model (CSM) provides an understanding of the potential for exposure, under current and future land uses, to chemicals within a study area based on the source(s) of contamination, the release mechanism(s), the exposure pathway(s), and the receptor(s). A CSM for the site is presented on [Figure ES-5](#) and discussed below.

The complete exposure pathways evaluated in the SRE include the following:

- Inhalation of vapors and particulates in ambient air emitted from combustion sources (e.g., burning of trash, exhaust from power plants and factories, automobile exhaust)
- Incidental soil ingestion
- Dermal contact with soil
- Inhalation of vapors and particulates in air emitted from soil
- Ingestion of tap water (which may be provided by the city and/or by a well on the property)
- Inhalation of vapors in indoor air associated with household uses of tap water (e.g., showering & washing dishes)
- Inhalation of vapors in indoor air associated with vapor intrusion from groundwater and/or soil

Because this is an SRE, the following potentially-complete exposure pathway was not included in the Phase I evaluation:

- Dermal contact with tap water (which may be provided by the city and/or by a well on the property)

The following potentially-exposed populations living and/or working in the Naples area of Campania region were evaluated for this report:

- USN personnel
- U.S. Civil Service personnel and their families

² Risks for radionuclides were not computed as part of the Phase I SRE (see section 4.1 in the main body of the text for the rationale).

- Department of Defense (DoD) and DoD Dependant Schools (DoDDS) personnel and their families
- U.S. State Department personnel and their families

The following potentially-exposed populations living and/or working in the Naples area of Campania region were not evaluated for this report:

- Other private U.S. citizens and their families
- Italian citizens
- Other, non-Italian, foreign nationals

1.5 Results of the Screening Risk Evaluation

1.5.1 Results of Risk Calculations

In most Superfund risk assessments, risks are calculated by integrating the results of the exposure assessment and toxicity assessment into a quantitative estimate of noncarcinogenic hazard indices and carcinogenic risks. Since this SRE is using standard July 2008 USEPA 30-Year Residential Regional Screening Levels (RSLs)³, the risks were determined by calculating exceedance factors (EFs), which are the ratio of the chemical exposure point concentration to its RSL. Concentrations of chemicals in soil, soil gas, and tap water that exceed RSLs (i.e., chemicals with EFs greater than one) may be of concern to human health. EFs were calculated separately for carcinogenic chemicals and noncarcinogenic chemicals. Individual chemical EFs were summed to calculate the cumulative EFs for each medium. Cumulative EFs for each medium were summed to calculate the total cumulative EF for a location.

Cumulative cancer exceedance factors (CCEFs) and cumulative noncancer exceedance factors (CNCEFs) for each sample were calculated by summing the individual cancer EFs (CEFs) and noncancer EFs (NCEFs) for chemicals based on RSLs. A CEF and NCEF of 10 indicates that exposure to soil could potentially result in a cumulative cancer risk of 1E-05 and a Hazard Index (HI) of 10, respectively.

Risks are calculated by evaluating all of the ways a receptor might be exposed to chemicals in the environment. For the Naples SRE, the approach for evaluating risks associated with exposure to chemicals in tap water is more complicated than other, more typical sites. At a typical site, the risks from tap water would be calculated by evaluating exposure to chemicals via:

- Ingestion of Tap Water (drinking, making ice, brushing teeth)
- Inhalation of Vapors in Indoor Air Associated with Household Uses of Tap Water (e.g., showering, washing dishes, washing clothes, et cetera).
- Dermal Contact with Tap Water While Bathing

³ Standard July 2008 USEPA 30-Year Residential Regional Screening Levels (RSLs). The 30-Year Residential RSLs were calculated using default exposure parameters and factors that represent reasonable maximum exposure (RME) conditions for long-term/chronic exposures and are based on the methods outlined in the USEPA's Risk Assessment Guidance for Superfund, Part B Manual (USEPA, 1991) and Soil Screening Guidance documents (USEPA, 1996 and USEPA, 2002). Standard RSLs are provided for outdoor worker soil, worker indoor air and tap water – only the 30-year residential RSLs were used in this SRE.

- Dermal contact with tap water while bathing is not being evaluated in this SRE because this exposure pathway is not included in the development of the RSLs.

In Naples, USN leadership implemented a Bottled Water Advisory in 2008 due to wide-spread, low concentrations of volatile organic chemicals and microorganisms that were detected in tap water, and is requiring landlords to provide potable water from USN-approved sources. This action eliminates the exposure to chemicals in tap water via ingestion of tap water. However, there is no guarantee that the Bottled Water Advisory will be followed by every person and therefore, this action does not eliminate risks those who are not drinking bottled water or risks related to the inhalation pathway (e.g., exposure to chemicals in the tap water from showering). Therefore, the risks in this SRE were calculated two ways:

1. **The Soil, Soil Gas, and Tap Water (TW via Ingestion+Inhalation) Exposure Scenario** – Risks were calculated based on exposure to chemicals in soil, soil gas, and tap water assuming that tap water was used for drinking, cooking, brushing teeth, and making ice. This scenario assumes that residents were not using bottled water, and would be exposed to chemicals in their tap water through ingestion and inhalation exposure pathways.
2. **The Soil, Soil Gas, and Tap Water (TW via Inhalation-Only) Exposure Scenario** – Risks were calculated based on exposure to chemicals in soil, soil gas, and tap water assuming that tap water was not used for drinking, cooking, brushing teeth, and making ice. This scenario assumes that residents were using bottled water and would not be exposed to chemicals in tap water through ingestion.

1.5.2 Risks Management Categories for Evaluating Incremental Risks

This report characterizes the potential health risks associated with living at a residence for 30 years. This is generally a conservative assumption because typical tour lengths range from three to six years. The risk evaluation results (incremental risks⁴) were placed into one of two categories:

1. Acceptable Risk – The noncancer and cancer risks at this residence are considered Acceptable based on the criteria presented below
2. Unacceptable Risks – The noncancer and cancer risks at this residence are considered Unacceptable based on the criteria presented below

Based on the results of the SRE, the appropriate course of action will be taken to ensure the safety of USN personnel.

⁴ Incremental risks were calculated by subtracting the risks for chemicals that naturally occur in the environment from the total risks (i.e., the risks calculate for all chemicals that were detected). Only the results of the incremental risk calculations are presented and discussed in this SRE. In addition, the risk-management recommendations presented in this SRE (i.e., Acceptable or Unacceptable) were made based on the incremental risk.

Risk-Management Categories

Scenario	Criteria for Acceptable Incremental Risks	Criteria for Unacceptable Incremental Risks
Soil, Soil Gas, and Tap Water (TW via Ingestion+Inhalation) Exposure Scenario ¹	Total NCEF less than or equal to 1; and Total CEF less than or equal to 10; and Concentration less than or equal to USEPA MCL (tap water). Applies to all chemicals.	Total NCEF greater than 1; or Total CEF greater than 10; or Concentration greater than the USEPA MCL (tap water). Applies to all chemicals.
Soil, Soil Gas, and Tap Water (TW via Inhalation-Only) Exposure Scenario ²	Total NCEF less than or equal to 1; and Total CEF less than or equal to 10; and Concentration less than or equal to USEPA MCL (tap water). Applies only to Fecal Coliform and Total Coliforms (including Fecal Coliform and E. Coli).	Total NCEF greater than 1; or Total CEF greater than 10; or Concentration greater than the USEPA MCL (tap water). Applies only to Fecal Coliform and Total Coliforms (including Fecal Coliform and E. Coli).

Notes:
 NCEFs were calculated by dividing the maximum-detected concentrations by noncancer-based U.S. Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs).
 CEFs were calculated by dividing the maximum-detected concentrations by cancer-based USEPA RSLs.
 The individual NCEFs and CEFs were summed to provide the total CNCEF and total CCEF, respectively.
 An NCEF of 1 corresponds to a Hazard Index of 1.
 A CEF of 1 corresponds to a cancer risk of 1E-06 (one in a million). A CEF of 10 corresponds to a cancer risk of 1E-05 (one in a 100,000).
¹The tap water RSLs used to evaluate residences that DO use tap water for drinking, cooking, brushing teeth, and making ice were based on ingestion and inhalation of household uses (e.g., showering) of tap water. This evaluation also included RSLs for evaluating soil and soil gas, as appropriate.
²The tap water RSLs used to evaluate residences that DO NOT use tap water for drinking, cooking, brushing teeth, and making ice were based on inhalation of household uses (e.g., showering) of tap water only. This evaluation also included RSLs for evaluating soil and soil gas, as appropriate.

1.5.3 Incremental Risk Results for the 130 Residences Located on the Economy

One hundred and thirty residences on the economy were sampled as part of the Phase I SRE. These residences are distributed throughout nine study areas as presented in [Table ES-1](#) and presented on [Figure ES-6](#). Individual letter reports (i.e., Resident Letters) were provided to each resident, which presented the analytical results for all samples that were collected at their residence, the risks, risk-management category, actions that the USN is taking based on the results, and actions that they (the resident) can take based on the results. The results are summarized below:

1. Concentrations of chemicals in tap water (specifically, tetrachloroethene, fecal coliforms, total coliforms [including fecal coliform and *E. coli*], and nitrate) were responsible for the majority of the risks. The risks for soil and soil gas were typically acceptable (with a few exceptions). See [Table ES-2](#) and [Figures ES-7](#) (soil), [ES-8](#) (soil gas), [ES-9](#) (tap water – ingestion+inhalation), and [ES-10](#) (tap water – inhalation only). The following grid identifies chemicals that exceeded RSLs and/or USMCLs (USMCLs apply to tap water only):

Chemicals that exceeded RSLs and/or USMCLs (USMCLs apply to tap water only):				
Media:	Soil	Soil Gas	Tap Water from a Public Water Supply	Tap Water from a Private Well or Unknown Source
Chemical:	<ul style="list-style-type: none"> Total dioxin/furans (2,3,7,8-TCDD TEQs) Total carcinogenic PAHs (BaP TEQs) 	<ul style="list-style-type: none"> Chloroform Naphthalene Tetrachloroethene Trichloroethene 	<ul style="list-style-type: none"> Copper Lead Fecal coliforms Nitrate Tetrachloroethene THMs Thallium Total coliforms (including fecal coliform and <i>E. coli</i>) Total dioxin/furans (2,3,7,8-TCDD TEQs) 	<ul style="list-style-type: none"> Copper Carbon tetrachloride Lead Fecal coliforms Nitrate Tetrachloroethene THMs Total coliforms (including fecal coliform and <i>E. coli</i>) Total dioxin/furans (2,3,7,8-TCDD TEQs)

2. Of the 130 residences sampled on the economy, the following were identified as having unacceptable risks (see [Table ES-2](#)):
 - o Tap Water via Ingestion+Inhalation Exposure Scenario – 48 of the 130 residences were unacceptable (see [Figure ES-11](#))
 - o Tap Water via Inhalation-Only Exposure Scenario – 41 of the 130 residences were unacceptable. (see [Figure ES-12](#))
3. Study Area 8 had the highest number of residences with unacceptable risks (see [Table ES-2](#)):
 - o Tap Water via Ingestion+Inhalation Exposure Scenario – 28 of the 38 residences had unacceptable risks (see [Figure ES-11](#))
 - o Tap Water via Inhalation-Only Exposure Scenario – 26 of the 38 residences had unacceptable risks (see [Figure ES-12](#))
4. No residences were identified in the Study Areas 1, 3, 4, and 9 with unacceptable risks (see [Table ES-2](#) and [Figures ES-11](#) and [ES-12](#)):
5. Of the 94 residences sampled on the economy that appear to obtain their tap water from a public source, the following were identified as having unacceptable risks (see [Table ES-2](#)):
 - o Based on the Tap Water via Ingestion+Inhalation Exposure Scenario – 12 of the 94 residences had unacceptable risks due to concentrations of chemicals in tap water (see [Figure ES-11](#)).
 - o Based on the Tap Water via Inhalation-Only Exposure Scenario – 7 of the 94 the residences had unacceptable risks due to concentrations of chemicals in tap water (see [Figure ES-12](#)).
6. Of the 36 residences sampled on the economy that obtain their tap water from a private well or unknown source, the following were identified as having unacceptable risks (see [Table ES-2](#)):
 - o Based on the Tap Water via Ingestion+Inhalation Exposure Scenario – 30 of the 36 residences had unacceptable risks due to concentrations of chemicals in tap water (see [Figure ES-11](#)).

- Based on the Tap Water via Inhalation-Only Exposure Scenario – 29 of the 36 the residences had unacceptable risks due to concentrations of chemicals in tap water (see [Figure ES-12](#)).
- 7. Tetrachloroethene in tap water was responsible for unacceptable risks at 16 of the 48 residences with unacceptable risks, the majority occurring in Study Area 8. However, tetrachloroethene in tap water was also frequently detected at concentrations exceeding the RSL but below the USN's risk-management criteria for unacceptable risk. This was especially frequent for public water in Study Areas 1 and 2 (see [Figures ES-13](#) and [ES-14](#)).
 - Of the 36 residences sampled on the economy that obtain their tap water from a private well or unknown source, tetrachloroethene was detected at concentrations exceeding the RSL at the following locations (see [Table B-4](#) in [Appendix B](#)):
 - Based on the Tap Water via Ingestion+Inhalation Exposure Scenario – 25 of the 39 samples (36 tap water samples and three tap water resamples were collected as part of Phase I) had tetrachloroethene concentrations exceeding the RSL (see [Figure ES-13](#)).
 - Based on the Tap Water via Inhalation-Only Exposure Scenario – 17 of the 39 samples (36 tap water samples and three tap water resamples were collected as part of Phase I) had tetrachloroethene concentrations exceeding the RSL (see [Figure ES-14](#)).
 - Of the 94 residences sampled on the economy that appear to obtain their tap water from a public source, tetrachloroethene was detected at concentrations exceeding the RSL at the following locations (see [Table B-3](#) in [Appendix B](#)):
 - Based on the Tap Water via Ingestion+Inhalation Exposure Scenario – 20 of the 99 samples (94 tap water samples and five tap water resamples were collected as part of Phase I) had tetrachloroethene concentrations exceeding the RSL (see [Figure ES-13](#)).
 - Based on the Tap Water via Inhalation-Only Exposure Scenario – Three of the 99 samples (94 tap water samples and five tap water resamples were collected as part of Phase I) had concentrations of tetrachloroethene in tap water at concentrations exceeding the RSL (see [Figure ES-14](#)).
- 8. Fecal coliform and total coliforms (including fecal coliform and *E. coli*) were detected frequently at concentrations exceeding the USMCL at 35 of the 130 residences. These exceedances were most often observed in Study Area 8, with a very limited number of exceedances in Study Areas 5, 6, and 7 (see [Table ES-2](#) and [Figures ES-15](#) and [ES-16](#)).
 - Of the 36 residences sampled on the economy that obtain their tap water from a private well or unknown source, fecal coliform and total coliforms (including fecal coliform and *E. coli*) were detected at concentrations exceeding USMCLs at 28 of the residences (see [Table ES-2](#) and [Figures ES-15](#) and [ES-16](#)).
 - Of the 94 residences sampled on the economy that obtain their tap water from a public source, fecal coliform and total coliforms (including fecal coliform and *E. coli*) were detected at concentrations exceeding USMCLs at seven of the residences (see [Table ES-2](#) and [Figures ES-15](#) and [ES-16](#)).
- 9. Nitrate (as NO₃-) was detected at concentrations exceeding the USMCL at 32 of the 130 residences. These exceedances were most often observed in Study Area 8, with a very limited number of exceedances in Study Areas 5, 6, and 7 (see [Appendices B-3](#) and [B-4](#) and [Figure ES-17](#)).

- Of the 36 residences sampled on the economy that obtain their tap water from a private well or unknown source, nitrate (as NO₃⁻) was detected at concentrations exceeding the USMCL at 28 of the residences (see [Tables B-3 and B-4 in Appendix B](#) and [Figure ES-17](#)).
 - Of the 94 residences sampled on the economy that obtain their tap water from a public source, nitrate (as NO₃⁻) was detected at concentrations exceeding the USMCL at four of the residences (see [Tables B-3 and B-4 in Appendix B](#) and [Figure ES-17](#)).
10. Arsenic, a natural background chemical which is common in volcanic areas such as Naples, was detected in every soil and tap water sample at concentrations exceeding the RSL (see [Figures ES-18 and ES-19](#), respectively).
11. Five ambient air samples were collected on multiple days from each of the nine air monitoring stations (i.e., a total of 45 samples were collected) over approximately 30-days. Concentrations of chemicals in ambient air frequently exceeded RSLs, however, they were not significantly different than ambient air concentrations measured in major U.S. cities during 2007 (USEPA, 2007) and none of the concentrations exceeded the NAAQS. There were five chemicals which exceeded background levels throughout the study areas:
- Study Area 1: 1,2-Dichloropropane
 - Study Area 2: Benzene and 1,2-dichloropropane
 - Study Area 3: Dieldrin and 1,2-dichloropropane
 - Study Area 4: 1,2-Dichloropropane
 - Study Area 5: 1,2-Dichloropropane
 - Study Area 6: 1,2-Dichloropropane and total dioxin/furans (2,3,7,8-TCDD TEQs)
 - Study Area 7: 1,2-Dichloropropane, dieldrin, and total dioxin/furans (2,3,7,8-TCDD TEQs)
 - Study Area 8: 1,2-Dichloropropane
 - Study Area 9: Chloromethane and 1,2-dichloropropane

1.5.4 Incremental Risk Results for U.S. Government-Related Facilities

In order to calculate risks, risk assessors typically delineate an exposure unit, which is a geographic area that is assumed to be where exposure is likely to occur. For example, in the economy residences the exposure unit is the residence and surrounding yard. Soil samples, soil gas samples, and tap water samples are all collected from within this exposure unit. Therefore, a cumulative risk can be calculated that reasonably reflects the risks to people within that exposure unit.

However, at the U.S. government-related facilities it is difficult to delineate reasonable exposure units because environmental samples were collected from multiple, disparate locations which were spatially distributed throughout the sites. In addition, soil samples, soil gas samples, and tap water samples were not co-located. This type of sampling approach is typically used in the first phase of a screening evaluation (such as this) in order to provide a general indication of the levels of contamination that may be present. As such, these types of sampling results are typically not used to calculate cumulative risks across media because it is unlikely that the same person would be exposed to media that are not co-located (i.e., we cannot delineate reasonable exposure units). Therefore, instead of calculating cumulative risks at each location across all media, the analytical data were compared to RSLs in order to provide an

indication of the media and chemicals that exceed risk-based screening levels, and therefore, may require additional investigation in the future. The results are summarized below:

1. Tap Water – The risks for tap water were typically acceptable. The following grid identifies locations, chemicals, and number of samples that had unacceptable concentrations in tap water:

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC- Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	US Consulate
Lead	2	0	0	0	0	0	0	0	0	0
Nickel	3	1	0	0	0	0	0	0	0	0
Naphthalene	1	0	0	0	0	0	0	0	0	0
Tetrachloroethene	0	0	1	1	0	0	0	2	0	4
THMs	0	0	8	1	7	2	0	3	0	4
Total coliforms (including fecal coliform and <i>E. coli</i>)	0	0	1	1	0	0	0	0	0	0
Total dioxin/furans (2,3,7,8-TCDD TEQs)	0	2	2	0	1	0	0	0	0	1
Number of Samples Collected	10	10	10	6	10	10	3	3	3	4

2. Soil – The risks for soil were typically acceptable. The following grid identifies locations, chemicals, and number of samples that had unacceptable concentrations in soil:

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC- Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	US Consulate
Total dioxin/furans (2,3,7,8-TCDD TEQs)	0	0	0	0	0	0	--	0	3	1
Total carcinogenic PAHs (BaP TEQs)	0	0	0	1	1	1	--	0	1	1
Number of Samples Collected	10	12	11	6	10	10	0	10	9	1

3. Soil Gas – The risks for soil gas were typically acceptable. The following grid identifies locations, chemicals, and number of samples that had unacceptable concentrations in soil gas:

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC- Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	US Consulate
Chloroform	0	0	1	0	--	--	--	--	--	--

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC- Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	US Consulate
Tetrachloroethene	0	0	3	0	--	--	--	--	--	--
Number of Samples Collected	10	10	9	6	0	0	0	0	0	0

4. Irrigation Water – The risks for soil gas were frequently unacceptable. The following grid identifies locations, chemicals, and number of samples that had unacceptable concentrations in irrigation water:

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC- Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	US Consulate
Bis(2-ethylhexyl)phthalate	--	--	1	--	0	0	--	0	--	--
Fecal coliform	--	--	1	--	0	0	--	0	--	--
Nitrate	--	--	1	--	9	1	--	1	--	--
Nitrite	--	--	0	--	1	0	--	0	--	--
Tetrachloroethene	--	--	1	--	5	1	--	1	--	--
THMs	--	--	0	--	0	1	--	1	--	--
Total coliforms (including fecal coliform and E. coli)	--	--	1	--	5	0	--	1	--	--
Total dioxin/furans (2,3,7,8-TCDD TEQs)	--	--	1	--	3	0	--	1	--	--
Trichloroethene	--	--	0	--	0	1	--	0	--	--
Uranium	--	--	1	--	0	0	--	0	--	--
Zinc	--	--	1	--	--	--	--	--	--	--
Number of Samples Collected	0	0	1	0	9	1	0	2	0	0

1.6 Uncertainty Analysis

The purpose of this Uncertainty Analysis is to identify key components of the SRE report that could significantly impact the results of the evaluation. It is important to note that only a portion of the Naples investigation has been completed and the purpose of this Report is to evaluate existing data in spite of known data gaps. This evaluation will be useful for planning any additional environmental sampling in the nine study areas. The key uncertainties evaluated in this analysis are associated with:

- **Representativeness of Soil, Soil gas, Tap Water, Well Water, and Ambient Air Data**
 - **Biased Sampling Design** – A biased sampling design was implemented in order to sample areas within the Naples area of Campania where U.S. personnel work and live with the highest potential of being impacted by burning of trash or dumping of chemical waste. To

achieve this, Italian data regarding trash and chemical dump sites was consulted in order to collect samples from these "worst-case" areas (see [Figure ES-4](#)). This is a key uncertainty because it assumes that the Italian data used to identify the "worst-case" areas for sampling is accurate. In addition, no chemical-specific information was available from the Italian Government with respect to the specific dump sites presented on [Figure ES-3](#) so it was not possible to prioritize sampling in areas with chemicals that are the most toxic. Consequently, each dump site was assumed to have the same potential risk to human health, which is probably not correct because of the heterogeneous nature of the chemical composition of trash and because a variety of different chemicals were likely dumped at different times and locations throughout Campania.

- **Single Samples** – The risks presented in this SRE were based on a single-sampling event at a specific location. A single sample only provides a "snapshot" of concentrations that are present in soil, soil gas, and tap water. One sample may or may not be representative of the soil, soil gas, and tap water concentrations present at this location. In addition, typical tour lengths at Naples are between three and six years. The SRE assumed that people could be exposed to chemicals for 30 years. Using environmental sampling results for soil, soil gas, and tap water from a single sampling event introduces uncertainty into the evaluation because the concentrations may not be representative of long-term conditions.
- **Spatial Density of Samples** – Combined, the Naples study areas are approximately 395 square miles, which is a large area to evaluate. Samples were collected from areas where U.S. military and civilian personnel and their families work and live. The large study area, combined with the number of media to be evaluated, introduces uncertainty with regard to the spatial density of samples for the SRE (see [Figure ES-6](#)). There may be areas where samples have not been collected that have affected media.
- **Air Samples Were Collected Over a 30-Day Period** – Five ambient air samples were collected over a 30-day period (i.e., July 7, 2008 – August 8, 2008) from each of the nine study areas (i.e., a total of 45 ambient air samples were collected). The measured concentrations may not be representative of long-term conditions for a number of reasons. Meteorological conditions during the sampling period might not be representative of long-term conditions. In many cases wind speed and direction change throughout the year and a one-time sampling event may not be representative due to the variability. Anthropogenic sources of chemicals in ambient air (e.g., trash burning) may be emitted irregularly and associated ambient air concentrations likely vary accordingly.
- **Passive Soil Gas Samples** – The soil gas concentrations evaluated in this study were based on results obtained from GORE™ Modules, which are patented, passive diffusion sorbent-based samplers, that collect samples for VOCs, SVOCs, and pesticides. The passive soil gas collection process measures chemical mass rather than concentration. Soil gas concentrations were estimated by Gore using the mass of chemical detected in combination with information obtained regarding the soil type in Naples and the Campania region. Although soil gas concentrations were estimated using default assumptions regarding soil characteristics, the information is not truly suitable for a robust quantitative risk assessment. The data collected via this process can be useful for screening purposes to determine if there is a potential for

vapor intrusion. Consequently, there is some uncertainty with regards to the risks presented for soil gas. However, it is not possible to quantify the impact of using the passive soil gas results in the SRE. During Phase II of the PHE, soil gas will be collected using active, soil-gas sampling techniques, which will provide results in units of concentration that can be used directly in the risk assessment and are viewed by most experts in the vapor intrusion field as the most reliable method for collecting soil gas for use in risk assessment.

- **Background Concentrations**

- **Arsenic** – In Campania, background concentrations of arsenic in soil and tap water exceed RSLs. In fact, in almost all cases the concentrations pose an unacceptable risk based on the USN Risk-Management Criteria for this project. Since the concentrations of arsenic are naturally occurring (Cicchella et al., 2005) and are likely associated with volcanic activity in the region, arsenic was not included in the incremental risk calculations presented in this report.
- **Background Concentrations of Chemicals in Ambient Air** – Determining representative background concentrations for chemicals in ambient air is an important step in the process of identifying and characterizing chemical concentrations and the risks associated with those concentrations. To accurately do this, the maximum-detected values in six U.S. cities (i.e., San Diego, California, Los Angeles, California, Seattle, Washington, Houston, Texas, Medothian, Texas, and Washington DC) from 2007 U.S. Air Background Data (USEPA, 2007) were used as background concentrations. In Campania, background concentrations of many chemicals exceeded their RSLs and many concentrations posed an unacceptable risk based on the USN risk-management criteria for this project. However, only chemicals that exceeded the U.S. air background data were included in the incremental risk calculations presented in this report.

- **Exposure Assumptions**

- **30-Year Residential Exposure** – The RSLs used in this assessment for evaluating all locations (residences and work places) were based on standard USEPA 30-year residential exposures. These RSLs are extremely conservative because the typical USN tour length is three years. Occasionally, this can be extended to six years. Consequently, the RSLs are five to ten times more protective as compared to actual expected exposures. The USN decided to apply the more conservative RSLs in the SRE because in some instances DoD Teachers and other U.S. Civil Servants remain in the Naples area of Campania for ten to 20 years or more. Therefore, in order to be protective of the entire U.S. population, the 30-year RSLs were used. This overestimates the risks because the vast majority of the U.S. personnel (90%) will live in the Naples area of Campania less than six years.

- **Toxicity Values**

- **Conservative USEPA Toxicity Values** – USEPA cancer and noncancer toxicity values were used to evaluate the potential risks and noncancer hazards associated with exposure to chemicals. The uncertainty associated with these toxicity values is addressed by incorporating conservative assumptions and modifying factors into the cancer and noncancer

toxicity values. The cumulative effect of these conservative assumptions used to derive toxicity values is more conservative (i.e., health-protective) risk estimates.

- **Public Water Source versus Private Well**

- There was some uncertainty with determining whether a residence received its water from public water, a private well, or a blended system (i.e., some non-permitted [illegal wells] are tapped into the pipes of the public water supply system). Limitations were also associated with locating wells and water meters at residences, and some residences were sampled prior to the public versus private well inspection. This did not impact the risk calculations but did create uncertainty when summarizing the risks associated with public water in contrast to private well water.

There was uncertainty in this SRE with regard to the representativeness of the analytical data, background concentrations of chemicals, exposure assumptions, toxicity values, and well designations. In all cases where uncertainty existed in the assessment, assumptions and inputs were selected to ensure that site risks were not underestimated, and these uncertainties did not impact the confidence in the conclusions of the assessment.

1.7 Risk Management/Risk Communication Actions

This section summarized key risk-management actions performed to date by CNREURAFSWA and NSA Naples leadership in their difficult task of implementing a risk-reduction strategy. Risk management decisions were made using the framework established by the 1997 Presidential/Congressional Commission on Risk Assessment and Risk Management who introduced a risk-management framework to set forth good practices for making risk-management decisions and for actively engaging stakeholders in the process (Risk Assessment and Risk Management In Regulatory Decision-Making, Final Report, Volume 2, 1997). This framework uses a clear six-stage process for risk management that can be scaled according to the importance of the public health issue and includes:

1. Defining the problem and put it in context.
2. Analyzing the risks associated with the problem in context.
3. Examining options for addressing the risks.
4. Making decisions about which options to implement.
5. Taking actions to implement the decisions.
6. Conducting an evaluation of the effectiveness of the actions taken.

1.7.1 Risk Management Actions Implemented to Mitigate Risks

- CNRE requested the Secretary of the Navy (CNRE Memo for the Secretary of the Navy Requesting Emergency and Extraordinary Expense (EEE) funds, 21 Aug 2008) to authorize the use of EEE funds for the provision of potable water to USN personnel in homes privately leased in the Naples and Caserta provinces of the Campania Region. The Secretary of the Navy granted that request and NSA Naples and NEX Naples began distributing bottled water within hours of CNRE's receipt of the EEE funds (\$144,000 or 457,143 liters).
- Directed NSA, Naples to modify economy leases to require all landlords to provide tenants with a containerized water service. To date 135 new leases have been signed. Nine landlords with

existing leases have been contacted of those, seven have agreed to provide bottled water; those leases are in the process of renegotiation. At the current rate of consumption, bottled water is anticipated to last through 08 April 2009. However, it is expected that the date will be extended as consumption rates decrease due to lease amendments. Tenants are encouraged to initiate the lease renegotiation process with the expectation that all leases will be renegotiated before the bottled water supply is exhausted.

- Directed Naval Facilities Engineering Command, Europe and Southwest Asia (NAVFAC) to modify leases for U.S. Government quarters to require all landlords to provide tenants with a containerized water service at all U.S. government parcos and NAVFAC-leased homes.
- Directed NSA Naples to limit Housing Eligibility List to only those homes with proven, safe-water sources through pre-screening of new leases.
- Directed NSA Naples to modify economy leases to require all landlords to clean and disinfect all supplementary drinking water systems every six months.
- With the assistance of the U.S. Consulate in Naples, NMCPHC and NAVFAC, defined high-risk areas. As a protective measure, directed that NSA Naples suspend all new leases in those areas until further notice.
- No Lease Zones (NLZs) were defined barring signing of any new leases in these areas until additional sampling and evaluation had occurred.
- 2008 First “Step-Out” investigation (500 ft) was begun in response to sampling results indicating groundwater contamination and a suspected plume of PCE.
- 2009 Second “Step Out” (1500 ft) sampling including ASGS in the New-Lease Suspension Zone (NLSZ) has begun to determine the boundary of the suspected plume.
- Seventeen families whose homes had unacceptable sampling results that could not be mitigated, thus necessitating a move out, have been contacted by the EHIC. CO NSA Naples has sent an official letter directing relocation to all 17 families concerned and NSA Housing monitors the timeline on mandatory move-out dates. Seven of the 17 families have already relocated into another home.

1.7.2 *Communication*

- A variety of communications venues were developed to inform U.S. personnel, their families, and the Italian Government of the results of the PHE (e.g., Community Action Group, Websites, All Hands Emails, Panorama newspaper, town hall meetings, reports, Naval Hospital Environmental Information Center, et cetera.)
- U.S. Naval Hospital Naples, under the direction of the Director of Occupational and Environmental Medicine, stood up an Environmental Health Information Center (EHIC), which acts as a central point of contact for concerned personnel to either call or visit to obtain information regarding PHE findings to date and to have their health concerns discussed. In addition, the EHIC also makes immediate notification calls to residents whose homes were sampled and that may have results that exceed the USN’s risk-management criteria for notification and/or relocation.

- Stood up and chartered the Community Action Group (CAG) chaired by the NSA Executive Officer, comprised of ombudsmen, USN leadership, and community representatives who meet periodically to address any issues of concern regarding the PHE and the health and environmental issues it is addressing. Minutes are generated.

1.7.3 *Host Nation Cooperation & Coordination*

- Working with the U.S. Consulate in Naples, established three permanent Italian Government Liaisons:
 - The General Director of Civil Protection: Agostino Miozzo
Mail Address: General Director, International Relations Office
Via Vitorchiano 400189 Roma
 - Assessorato alla Sanita: Assessore (Councilman): Professor Angelo Montemarano
Mail Address: Regione Campania - Assessorato alla Sanita', Centro Direzionale - Isola C3, 80143 Napoli
 - Assessorato all'Ambiente: Assessore (Councilman): Professor Walter Ganapini
Mail Address: Via De Gasperi, 28 - 80134 Napoli
- The Naples PHE Phase I data summary for water, soil and soil gas environmental sampling, the nine study area map, the summary of the USEPA methods that were used to analyze the samples along with their respective method detection limits, and translated cover letter was emailed to the three official Italian points of contact and the U.S. Consulate on 9 January 2009. Expect the Final Phase I report, including regional air sampling, Phase I Executive Summary, SRE, conclusions and recommendations to be completed and available for sharing in March 2009.

1.7.4 *Enduring Processes*

As a result of our proactive approach to PHE findings to date, the following enduring processes have been, or will be, implemented to protect the health of our personnel now and into the future.

- NLSZs limiting rental access to housing areas with demonstrated unacceptable levels of health risk due to tap and ground water contamination.
- Directive issued to use only “bottled water” for all ingestion purposes (drinking, food preparation/cooking, ice-making, and brushing teeth).
- Lease clause requiring landlords to provide only U.S. Army Veterinary Command approved containerized water service.
- Only homes with proven connection to the municipal water supply or with certified legal wells (none certified to date) are available to lease through NSA Naples Housing.
- Lease clauses now require landlords to clean and sanitize all water holding tanks and distribution systems prior to new lease and every six months thereafter.
- Institution of an EHIC at Naval Hospital Naples.
- Data sharing process stood up with host nation public health officials.
- Creation and maintenance of NSA Naples Health Awareness website – a central repository for up to date information pertaining to the PHE.

- Creation of a bi-lingual Environmental Protection Specialist position at U.S. Naval Hospital Naples (in progress).
- Creation of a random tap water testing capability for long term surveillance at rental home on the economy.
- Creation of a NSA Naples Housing Site database based on information acquired from a hand-held Global Positioning System (GPS) that is being used to develop/support a Geographic Information System (GIS) database (in progress)

1.7.5 Additional Risk Management Recommendations

Currently, for the USN and DoD, there is no overseas public health policy, to address health hazard exposure and evaluation from environmental conditions (to include background conditions), such as exist in Naples, Italy for our military and civilian personnel and their dependents.

We strongly support such an initiative and encourage the USN and DoD to accelerate the development and implementation of this policy. This will provide an equitable standard of health surveillance and risk reduction as applied to our personnel in the U.S., one they have come to expect. It will also provide a framework approach to dealing with Naples-like conditions thus avoiding the problems experienced by all USN stakeholders throughout the Naples PHE.

1.7.5.1 Lack of USN and DoD Overseas Public Health Policy for Enduring Base Siting Process

Currently, for the USN and DoD, there is no overseas public health policy for siting of future or existing enduring bases, to address health hazard exposures and evaluation from environmental conditions (to include background conditions), such as exist in Naples, Italy for our military and civilian personnel and their dependents.

While some environmental sampling and analysis did occur prior to relocating CNRE to Naples, no integrated and systematic approach, or metrics, exist to evaluate significant risks or total risks such as:

- Public health and environmental risks, on and off base
- Crime and violence
- Traffic safety
- Quality of life issues

We strongly support such an initiative and encourage the USN and DoD to accelerate the development and implementation of this policy. This will provide an equitable standard of risk management and risk reduction as applied to our personnel in the U.S., one they have come to expect. It will also provide a framework approach to dealing with base siting thus avoiding some the problems now experienced at Naples.

1.8 Recommendations

The following recommendations are based on the results of the Phase I SRE:

1. Continue to regularly inform USN personnel and the Italian Government of the results of the PHE using multiple communication outlets (e.g., Website, All Hands email, Panorama newspaper, town hall meetings, reports, Naval Hospital Environmental Information Center, et cetera.)
2. Require that all residences on the NSA Naples Housing List provide municipal water as the sole tap water supply. Well water should only be allowed for tap water use in cases where: (1) municipal water is not available and (2) the well was legally installed. All other residences should be removed from the Housing List.
3. Implement a long-term, random tap water monitoring program for microorganisms and VOCs for all occupied residences on the Housing List.
4. Require regular (e.g., once every six months) inspection, cleaning, disinfection and flushing of household water supply systems.
5. Encourage future residents to lease homes in study areas where tap water, soil, soil gas, and/or ambient air had acceptable risks (e.g., Recommended Economy Housing Areas). Discourage or eliminate future leasing of homes in study areas where tap water, soil, soil gas, and/or ambient air had unacceptable risks (e.g., New Lease Suspension Zones) (see [Figure ES-20](#)).
6. Return to Phase I locations that had exceedances of RSLs for VOCs in tap water and/or soil gas and collect sub-slab soil gas samples using Summa Canisters to determine whether or not vapor intrusion is of concern.
7. Implement a program to track and regularly monitor the status of residences where unacceptable risks were mitigated and, therefore, the residence is still occupied or will potentially be occupied by U.S. personnel in the future. The USN should focus on verifying that institutional and/or engineering controls that have been implemented (assuming that the residence has not been remediated to acceptable risk levels) remain in place and are continuing to work as designed to protect human health.

The following recommendations focus on sample collection and analyses for Phase II of the PHE:

1. Collect samples from additional residences located in the study areas to improve the spatial/geographical distribution/coverage of residences that were sampled. The number of locations that should be sampled should be based on multiple lines of evidence including:
 - a. Credible data regarding the location of trash and/or chemical dump sites that has been discovered since Phase I
 - b. Power analysis of the chemical results to ensure that an Alpha of 5% and Beta of 20% are achieved for each medium in each study area
 - c. Spatial/geographical distribution/coverage analysis of residences to ensure that samples have been collected adequately throughout each study area
2. Consider adding another Study Area (i.e., Study Area 10) in the area located east of Study Area 3 where additional U.S. personnel live (see [Figure ES-21](#)). Alternatively, residents in this area could be required to relocate to one of the study areas that were evaluated in Phase I of the PHE and had acceptable risks.
3. Discontinue collecting and analyzing tap water samples for SVOCs and Pesticides/PCBs. SVOCs, specifically phthalates, were detected infrequently in tap water samples. Pesticides and PCBs were not detected in any of the tap water samples.

4. Discontinue collecting soil samples within any of the study areas except in cases where a power analysis of the chemical results (Alpha of 5% and Beta of 20%) indicates that more samples should be collected. Arsenic, total carcinogenic PAHs (BaP TEQs), and total dioxin/furans (2,3,7,8-TCDD TEQs) were the only chemicals detected at concentrations exceeding their RSLs. The concentrations of arsenic in soil are consistent with natural background. Concentrations of total carcinogenic PAHs (BaP TEQs) and total dioxin/furans (2,3,7,8-TCDD TEQs) exceeding RSLs, were observed in a few locations in the study areas. However, the risks associated with these concentrations typically were acceptable and there is no spatial pattern/correlation suggesting that these exceedances are associated with deposition resulting from burning of trash.
5. Discontinue collecting passive soil gas samples. In their place, collect sub-slab soil gas samples using Summa Canisters at all sample locations included in Phase II. If sub-slab soil gas samples cannot be collected, then near-slab, shallow soil gas samples should be collected.
6. Continue the current ambient air monitoring program.

1.9 References

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TABLES

Table ES-1: Number of Residences Sampled on the Economy Per Study Area

Study Area	Number of Residences Sampled
1	21
2	8
3	5
4	3
5	32
6	13
7	8
8	38
9	2
TOTAL Residences Sampled	130

Table ES-2: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CNCEF	Soil RSL CCEF	Soil Gas RSL CNCEF	Soil Gas RSL CCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CNCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCEF	Tap Water Inh. Only ⁽²⁾ RSL CNCEF	Tap Water Inh. Only ⁽²⁾ RSL CCEF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNCEF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNCEF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 01																	
0009	PUBLIC	0.0	0.2	--	--	0.3	0.7	--	--	0.4	0.9	0.0	0.2	No	No	Acceptable	Acceptable
0045	PUBLIC	0.1	1.0	--	--	0.2	4.8	0.0	1.5	0.3	5.8	0.1	2.5	No	No	Acceptable	Acceptable
0049	PUBLIC	0.1	6.4	--	--	0.4	0.5	--	--	0.5	6.9	0.1	6.4	No	No	Acceptable	Acceptable
0058	PUBLIC	0.1	1.9	--	--	0.3	1.2	0.0	--	0.4	3.1	0.1	1.9	No	No	Acceptable	Acceptable
0077	PUBLIC	0.0	0.1	--	--	0.5	1.1	0.0	0.4	0.6	1.2	0.0	0.5	No	No	Acceptable	Acceptable
0117	PUBLIC	0.0	0.2	--	--	0.1	0.7	--	--	0.1	0.9	0.0	0.2	No	No	Acceptable	Acceptable
0138	PUBLIC	0.1	1.1	--	--	0.4	8.5	0.0	2.0	0.4	9.5	0.1	3.1	No	No	Acceptable	Acceptable
0170	PUBLIC	0.0	0.1	--	--	0.3	0.9	--	--	0.4	1.0	0.0	0.1	No	No	Acceptable	Acceptable
1211	PUBLIC	0.0	0.0	--	--	0.6	5.0	0.0	1.5	0.6	5.1	0.0	1.5	No	No	Acceptable	Acceptable
1273	PUBLIC	0.0	0.0	--	--	0.3	5.9	0.0	1.4	0.3	5.9	0.0	1.4	No	No	Acceptable	Acceptable
1320	PUBLIC	0.0	0.1	--	--	0.2	3.7	0.0	1.3	0.2	3.9	0.0	1.4	No	No	Acceptable	Acceptable
1454	PUBLIC	0.0	0.3	--	--	0.8	3.0	0.0	1.0	0.8	3.3	0.0	1.2	No	No	Acceptable	Acceptable
1511	PUBLIC	0.0	1.5	0.2	3.5	0.1	2.1	0.0	0.8	0.3	7.1	0.2	5.8	No	No	Acceptable	Acceptable
1516	PUBLIC	0.0	0.1	--	--	0.4	0.2	--	--	0.4	0.3	0.0	0.1	No	No	Acceptable	Acceptable
1522	PUBLIC	0.0	0.3	--	--	0.6	4.4	0.0	1.3	0.6	4.7	0.0	1.6	No	No	Acceptable	Acceptable
1545	PUBLIC	0.0	0.2	--	--	0.2	1.8	0.0	0.6	0.3	1.9	0.0	0.7	No	No	Acceptable	Acceptable
1547	PUBLIC	0.0	0.1	--	--	0.5	1.5	--	--	0.6	1.5	0.0	0.1	No	No	Acceptable	Acceptable
1567	PUBLIC	0.0	0.2	--	--	0.3	4.2	0.0	1.3	0.3	4.4	0.0	1.5	No	No	Acceptable	Acceptable
0073	PRIVATE WELL	0.0	0.0	0.0	6.7	0.1	1.5	--	--	0.1	8.2	0.0	6.7	No	No	Acceptable	Acceptable
1409	PRIVATE WELL	0.0	0.3	--	--	0.2	2.1	0.0	0.7	0.3	2.4	0.0	1.0	No	No	Acceptable	Acceptable
1463	PRIVATE WELL	0.0	0.2	--	--	0.4	5.7	0.0	1.6	0.4	5.9	0.0	1.8	No	No	Acceptable	Acceptable
Study Area 02																	
1327	PUBLIC	--	--	--	--	0.1	2.1	0.0	0.7	0.1	2.1	0.0	0.7	No	No	Acceptable	Acceptable
1333	PUBLIC	--	--	--	--	0.5	7.0	0.0	1.9	0.5	7.0	0.0	1.9	No	No	Acceptable	Acceptable
1337	PUBLIC	--	--	--	--	1.1	5.2	0.0	1.5	1.1	5.2	0.0	1.5	No	No	Unacceptable	Acceptable
1389	PUBLIC	--	--	--	--	0.4	7.6	0.0	2.3	0.4	7.6	0.0	2.3	No	No	Acceptable	Acceptable
1391	PUBLIC	--	--	--	--	0.7	5.9	0.0	1.6	0.7	5.9	0.0	1.6	No	No	Acceptable	Acceptable
1395	PUBLIC	--	--	--	--	0.2	6.3	0.0	1.6	0.2	6.3	0.0	1.6	No	No	Acceptable	Acceptable
1785	PUBLIC	--	--	--	--	0.4	6.8	0.0	1.9	0.4	6.8	0.0	1.9	No	No	Acceptable	Acceptable
1795	PUBLIC	--	--	--	--	0.5	6.2	0.0	1.6	0.5	6.2	0.0	1.6	No	No	Acceptable	Acceptable
Study Area 03																	
1204	PUBLIC	0.0	3.9	--	--	0.2	0.1	--	--	0.3	4.1	0.0	3.9	No	No	Acceptable	Acceptable
1341	PUBLIC	--	--	--	--	0.9	5.7	0.0	1.8	0.9	5.7	0.0	1.8	No	No	Acceptable	Acceptable
1380	PUBLIC	0.0	0.2	--	--	0.8	24.2	0.0	19.3	0.8	24.4	0.1	19.5	No	No	Acceptable ⁵	Acceptable ⁵
1641	PUBLIC	0.1	0.6	--	--	0.3	1.3	--	--	0.3	1.9	0.1	0.6	No	No	Acceptable	Acceptable
1799	PUBLIC	--	--	--	--	0.2	2.0	--	--	0.2	2.0	--	--	No	No	Acceptable	Acceptable

Table ES-2: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CNCEF	Soil RSL CCEF	Soil Gas RSL CNCEF	Soil Gas RSL CCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CNCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCEF	Tap Water Inh. Only ⁽²⁾ RSL CNCEF	Tap Water Inh. Only ⁽²⁾ RSL CCEF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNCEF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNCEF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 04																	
0774	PUBLIC	0.0	0.2	0.0	--	0.3	0.2	--	--	0.4	0.3	0.1	0.2	No	No	Acceptable	Acceptable
0777	PUBLIC	0.1	1.1	0.0	--	0.2	1.7	0.0	0.5	0.3	2.9	0.1	1.6	No	No	Acceptable	Acceptable
1559	PUBLIC	0.0	0.1	--	--	0.2	3.4	--	--	0.2	3.5	0.0	0.1	No	No	Acceptable	Acceptable
Study Area 05																	
0901	PUBLIC	0.0	0.4	--	--	0.5	0.6	--	--	0.6	1.1	0.0	0.4	No	No	Acceptable	Acceptable
0907	PUBLIC	0.1	2.3	0.0	--	0.2	1.2	--	--	0.2	3.5	0.1	2.3	No	No	Acceptable	Acceptable
0947	PUBLIC	0.0	0.2	--	--	0.1	--	--	--	0.2	0.2	0.0	0.2	No	No	Acceptable	Acceptable
0949	PUBLIC	0.1	0.6	0.8	555.0	0.1	1.2	--	--	1.0	556.8	0.9	555.6	No	No	Unacceptable	Unacceptable
0950	PUBLIC	0.0	0.0	--	--	0.1	3.1	0.0	1.2	0.2	3.1	0.0	1.2	No	No	Acceptable	Acceptable
0964	PUBLIC	0.1	4.4	--	--	0.8	1.0	0.0	--	1.0	5.3	0.1	4.4	No	No	Acceptable	Acceptable
0967	PUBLIC	0.1	0.6	--	--	0.3	4.6	--	--	0.4	5.2	0.1	0.6	No	No	Acceptable	Acceptable
0984	PUBLIC	0.0	0.3	--	--	0.1	1.4	--	--	0.2	1.7	0.0	0.3	No	No	Acceptable	Acceptable
0989	PUBLIC	0.0	0.2	--	--	0.1	2.1	0.0	0.5	0.1	2.2	0.0	0.7	No	No	Acceptable	Acceptable
1008	PUBLIC	0.0	0.1	--	--	0.4	1.3	--	--	0.4	1.4	0.0	0.1	No	No	Acceptable	Acceptable
1010	PUBLIC	0.0	0.1	--	--	0.3	1.4	--	--	0.4	1.6	0.0	0.1	No	No	Acceptable	Acceptable
1013	PUBLIC	0.0	0.1	0.0	--	0.2	2.1	0.0	0.8	0.2	2.1	0.0	0.8	No	No	Acceptable	Acceptable
1016	PUBLIC	0.0	0.2	--	--	0.1	0.8	--	--	0.2	1.0	0.0	0.2	No	No	Acceptable	Acceptable
1023	PUBLIC	0.0	0.3	--	--	0.1	2.0	0.0	0.7	0.1	2.3	0.0	1.0	No	No	Acceptable	Acceptable
1050	PUBLIC	0.0	0.0	0.0	--	0.5	1.7	0.0	0.5	0.5	1.7	0.0	0.5	No	No	Acceptable	Acceptable
1053	PUBLIC	0.0	0.2	--	--	0.2	1.8	0.0	0.6	0.3	2.0	0.0	0.8	No	No	Acceptable	Acceptable
1059	PUBLIC	0.0	0.1	0.0	1.7	0.1	1.2	0.0	0.1	0.2	3.0	0.0	1.9	No	No	Acceptable	Acceptable
1074	PUBLIC	0.0	0.0	--	--	0.2	1.0	--	--	0.2	1.0	0.0	0.0	No	No	Acceptable	Acceptable
1115	PUBLIC	0.0	0.0	--	--	0.1	0.8	0.0	--	0.1	0.8	0.0	0.0	No	No	Acceptable	Acceptable
1130	PUBLIC	0.0	0.2	0.0	--	0.5	2.0	0.0	0.7	0.5	2.2	0.1	0.8	No	No	Acceptable	Acceptable
1151	PUBLIC	0.0	0.1	0.5	460.7	0.2	2.2	--	--	0.7	463.1	0.5	460.8	No	No	Unacceptable	Unacceptable
1157	PUBLIC	0.0	3.5	0.0	8.9	0.5	1.7	0.0	0.7	0.5	14.1	0.0	13.0	No	No	Unacceptable	Unacceptable
1168	PUBLIC	0.0	0.2	--	--	0.1	0.4	--	--	0.1	0.6	0.0	0.2	No	No	Acceptable	Acceptable
1688	PUBLIC	0.1	41.1	--	--	0.1	1.5	--	--	0.1	42.7	0.1	41.1	No	No	Unacceptable	Unacceptable
1692	PUBLIC	0.0	0.1	--	--	0.4	1.8	0.0	0.5	0.4	1.9	0.0	0.6	Yes	No	Unacceptable	Unacceptable
1800	PUBLIC	0.0	10.5	--	--	0.3	0.6	0.0	0.4	0.3	11.1	0.0	10.9	Yes	No	Unacceptable	Unacceptable
0897	PRIVATE WELL	0.0	0.0	0.0	7.9	0.5	5.8	--	--	0.5	13.7	0.0	7.9	Yes	No	Unacceptable	Unacceptable
0921	PRIVATE WELL	0.1	1.5	--	--	0.1	0.6	--	--	0.2	2.0	0.1	1.5	No	No	Acceptable	Acceptable
0973	PRIVATE WELL	0.0	0.0	--	--	1.2	0.7	0.0	0.6	1.3	0.7	0.0	0.7	Yes	No	Unacceptable	Unacceptable
0974	PRIVATE WELL	0.1	0.2	0.0	6.3	0.5	1.4	0.0	0.6	0.6	7.9	0.1	7.1	No	Yes	Unacceptable	Acceptable
1713	PRIVATE WELL	0.0	0.0	--	--	0.3	2.6	--	--	0.3	2.6	0.0	0.0	No	No	Acceptable	Acceptable
1767	PRIVATE WELL	0.1	0.0	--	--	1.6	127.3	0.0	17.6	1.6	127.3	0.1	17.6	Yes	Yes	Unacceptable	Unacceptable

Table ES-2: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CNCEF	Soil RSL CCEF	Soil Gas RSL CNCEF	Soil Gas RSL CCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CNCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCEF	Tap Water Inh. Only ⁽²⁾ RSL CNCEF	Tap Water Inh. Only ⁽²⁾ RSL CCEF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNCEF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNCEF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 06																	
0197	PUBLIC	--	--	--	--	0.6	0.3	--	--	0.6	0.3	--	--	No	No	Acceptable	Acceptable
0199	PUBLIC	0.0	0.1	0.0	6.3	0.5	3.7	--	--	0.5	10.1	0.0	6.4	No	No	Unacceptable	Acceptable
0806	PUBLIC	--	--	--	--	0.2	1.7	0.0	--	0.2	1.7	0.0	--	No	No	Acceptable	Acceptable
0831	PUBLIC	0.0	0.0	1.3	877.7	0.6	2.3	0.0	0.2	1.9	880.0	1.3	877.9	No	No	Unacceptable	Unacceptable
0844	PUBLIC	0.1	0.4	--	--	0.2	2.2	--	--	0.3	2.6	0.1	0.4	No	No	Acceptable	Acceptable
0851	PUBLIC	--	--	--	--	0.5	2.1	--	--	0.5	2.1	--	--	No	No	Acceptable	Acceptable
1202	PUBLIC	0.0	0.2	0.0	0.6	0.4	0.8	--	--	0.5	1.6	0.0	0.9	No	No	Acceptable	Acceptable
1361	PUBLIC	0.0	0.0	0.0	0.9	1.6	2.1	--	--	1.6	3.0	0.0	0.9	No	Yes	Unacceptable	Acceptable
1365	PUBLIC	--	--	--	--	1.0	0.0	--	--	1.0	0.0	--	--	Yes	Yes	Unacceptable	Unacceptable
1661	PUBLIC	0.1	4.1	--	--	0.3	1.0	--	--	0.4	5.1	0.1	4.1	No	No	Acceptable	Acceptable
1665	PUBLIC	--	--	--	--	0.4	2.2	--	--	0.4	2.2	--	--	No	No	Acceptable	Acceptable
1797	PUBLIC	0.1	1.2	--	--	0.2	2.7	--	--	0.3	3.8	0.1	1.2	No	No	Acceptable	Acceptable
0548	PRIVATE WELL	0.0	0.2	0.0	0.2	1.0	23.8	0.0	14.4	1.1	24.2	0.1	14.7	Yes	Yes	Unacceptable	Unacceptable
Study Area 07																	
0111	PUBLIC	0.0	2.2	--	--	0.7	29.0	0.0	3.8	0.7	31.3	0.1	6.0	No	No	Unacceptable	Acceptable
0659	PUBLIC	--	--	--	--	0.9	1.8	--	--	0.9	1.8	--	--	No	No	Acceptable	Acceptable
1369	PUBLIC	0.0	0.1	--	--	0.6	0.1	--	--	0.6	0.2	0.0	0.1	No	No	Acceptable	Acceptable
1637	PUBLIC	0.3	3.6	--	--	0.1	3.0	0.0	0.7	0.4	6.6	0.3	4.3	No	No	Acceptable	Acceptable
1675	PUBLIC	0.0	0.0	0.0	1.4	1.0	2.2	0.0	0.3	1.0	3.7	0.0	1.8	Yes	Yes	Unacceptable	Unacceptable
1732	PUBLIC	0.0	0.1	--	--	0.3	1.2	--	--	0.3	1.3	0.0	0.1	No	No	Acceptable	Acceptable
1634	PRIVATE WELL	0.0	0.1	--	--	2.5	24.1	0.0	3.3	2.6	24.1	0.0	3.4	Yes	Yes	Unacceptable	Unacceptable
1744	PRIVATE WELL	0.0	0.3	--	--	0.9	61.8	0.0	9.0	1.0	62.1	0.1	9.3	Yes	Yes	Unacceptable	Unacceptable

Table ES-2: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CNCEF	Soil RSL CCEF	Soil Gas RSL CNCEF	Soil Gas RSL CCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CNCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCEF	Tap Water Inh. Only ⁽²⁾ RSL CNCEF	Tap Water Inh. Only ⁽²⁾ RSL CCEF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNCEF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNCEF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 08																	
0193	PUBLIC	--	--	--	--	5.1	0.8	--	--	5.1	0.8	--	--	No	No	<i>Unacceptable</i>	Acceptable
0346	PUBLIC	0.0	0.1	0.0	--	1.6	28.6	0.0	4.0	1.7	28.7	0.1	4.1	Yes	No	<i>Unacceptable</i>	<i>Unacceptable</i>
0380	PUBLIC	0.1	0.1	--	--	0.2	1.8	--	--	0.2	1.9	0.1	0.1	No	No	Acceptable	Acceptable
0491	PUBLIC	0.0	0.1	--	--	0.3	2.7	--	--	0.4	2.9	0.0	0.1	No	No	Acceptable	Acceptable
0497	PUBLIC	0.1	0.3	--	--	0.2	0.3	--	--	0.2	0.6	0.1	0.3	No	No	Acceptable	Acceptable
0501	PUBLIC	0.0	0.2	--	--	0.2	2.3	--	--	0.2	2.5	0.0	0.2	No	No	Acceptable	Acceptable
0504	PUBLIC	0.0	0.1	--	--	0.3	1.9	--	--	0.3	2.0	0.0	0.1	No	No	Acceptable	Acceptable
0516	PUBLIC	0.1	0.6	--	--	0.4	0.5	--	--	0.5	1.1	0.1	0.6	No	Yes	<i>Unacceptable</i>	Acceptable
0529	PUBLIC	0.1	0.7	--	--	0.7	--	--	--	0.8	0.7	0.1	0.7	No	No	Acceptable	Acceptable
1591	PUBLIC	0.0	0.2	--	0.1	0.4	1.8	--	--	0.5	2.0	0.0	0.2	No	No	Acceptable	Acceptable
1607	PUBLIC	0.1	0.5	--	--	0.7	5.9	0.0	0.5	0.8	6.4	0.1	1.0	Yes	No	<i>Unacceptable</i>	<i>Unacceptable</i>
1628	PUBLIC	0.1	0.1	--	--	0.2	2.8	--	--	0.3	2.9	0.1	0.1	No	No	Acceptable	Acceptable
1738	PUBLIC	0.0	0.1	0.0	0.5	0.3	1.3	--	--	0.3	1.9	0.0	0.6	No	No	Acceptable	Acceptable
1798	PUBLIC	0.0	0.1	--	--	0.8	1.0	0.0	0.7	0.9	1.1	0.0	0.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0214	PRIVATE WELL	0.1	0.1	--	--	0.8	13.6	0.0	1.5	0.9	13.7	0.1	1.6	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0217	PRIVATE WELL	0.1	0.1	--	--	0.5	7.6	0.0	0.9	0.5	7.7	0.1	1.1	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0238	PRIVATE WELL	0.1	0.1	0.0	28.3	0.4	2.8	0.0	0.4	0.5	31.2	0.1	28.8	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0263	PRIVATE WELL	0.0	0.0	--	--	0.5	4.4	0.0	0.6	0.5	4.4	0.0	0.6	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0271	PRIVATE WELL	0.1	1.0	--	--	0.6	9.9	0.0	1.1	0.7	10.9	0.1	2.1	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0283	PRIVATE WELL	0.1	0.1	--	--	1.9	10.4	0.0	1.4	2.0	10.4	0.1	1.4	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0309	PRIVATE WELL	0.1	0.2	0.0	3.9	1.4	457.3	0.1	62.4	1.5	461.4	0.2	66.6	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0333	PRIVATE WELL	0.1	0.2	--	--	0.7	273.8	0.1	37.1	0.8	274.0	0.1	37.2	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0383	PRIVATE WELL	0.0	0.1	--	--	0.6	29.6	0.0	4.1	0.6	29.6	0.0	4.2	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0395	PRIVATE WELL	0.0	0.0	0.0	0.8	0.6	201.9	0.0	27.4	0.6	202.7	0.1	28.2	No	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0402	PRIVATE WELL	--	--	--	--	0.8	2.5	--	--	0.8	2.5	--	--	No	No	Acceptable	Acceptable
0434	PRIVATE WELL	0.1	0.0	--	--	2.3	107.7	0.0	13.6	2.4	107.7	0.1	13.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0440	PRIVATE WELL	0.1	0.1	--	--	0.5	8.8	0.0	1.2	0.6	8.9	0.1	1.3	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0457	PRIVATE WELL	0.0	0.0	--	--	0.7	0.7	--	--	0.7	0.7	0.0	0.0	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0499	PRIVATE WELL	0.0	0.1	--	--	0.7	3.9	0.0	0.6	0.7	4.1	0.0	0.8	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0517	PRIVATE WELL	0.0	0.0	--	--	2.1	--	--	--	2.1	0.0	0.0	0.0	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0539	PRIVATE WELL	0.0	0.0	--	--	0.9	--	--	--	0.9	0.0	0.0	0.0	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0547	PRIVATE WELL	0.1	0.1	--	--	0.5	5.3	0.0	0.6	0.6	5.4	0.1	0.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1602	PRIVATE WELL	0.1	0.7	--	--	0.4	0.0	--	--	0.5	0.8	0.1	0.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1606	PRIVATE WELL	0.0	0.1	--	--	1.8	64.4	0.0	9.2	1.8	64.4	0.1	9.3	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1608	PRIVATE WELL	0.1	0.2	--	--	0.8	14.9	0.0	2.1	0.8	15.1	0.1	2.3	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1614	PRIVATE WELL	0.1	0.4	0.0	2.9	0.6	31.1	0.0	4.8	0.7	34.4	0.1	8.1	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1735	PRIVATE WELL	0.0	0.1	--	--	0.6	79.9	0.0	11.6	0.7	80.0	0.1	11.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
VILLA	PRIVATE WELL	0.1	0.1	0.0	5.2	0.8	5.6	0.0	0.8	0.8	10.9	0.1	6.1	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>

Table ES-2: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CCECF	Soil RSL CCECF	Soil Gas RSL CCECF	Soil Gas RSL CCECF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCECF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCECF	Tap Water Inh. Only ⁽²⁾ RSL CCECF	Tap Water Inh. Only ⁽²⁾ RSL CCECF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNCEF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNCEF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 09																	
0549	PUBLIC	--	--	--	--	0.5	0.0	--	--	0.5	0.0	--	--	No	No	Acceptable	Acceptable
1589	PUBLIC	0.0	0.1	0.0	1.8	0.3	3.2	0.0	0.5	0.3	5.0	0.0	2.3	No	No	Acceptable	Acceptable

Note:

CCEF = Cumulative Cancer Exceedance Factor CNCEF = Cumulative Noncancer Exceedance Factor Inh. = Inhalation Ing. = Ingestion RSL = USEPA Regional risk-based screening level MCL = USEPA Maximum Contaminant Limit

0.0 = Value is less than 0.1.

-- = Value is zero or samples were not collected for that medium.

¹Ing.+Inh. exposure scenario for residences assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice.

²Inh. Only exposure scenario for residences assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice.

³Ing.+Inh. exposure scenario for residences (Total Cumulative Exceedance Factor-Based on Soil, Soil Gas, and Tap Water) assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice.

⁴Inh. Only exposure scenario for residences (Total Cumulative Exceedance Factor-Based on Soil, Soil Gas, and Tap Water) assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice.

Residences that meet the unacceptable criteria for Ing.+Inh. or Inh. Only are shaded and bold.

⁵Location #1380, had chloroform detected in tap water at a concentration that resulted in a CEF greater than 10 (i.e., an unacceptable risk). However, USN policy for this project is to evaluate the risks of trihalomethanes (THMs) (i.e., bromodichloromethane, chloroform, bromoform, and dibromochloromethane) using the THM MCL rather than individual RSLs. The tap water concentration of THMs is less than the THMs MCL, therefore the risk at this location is considered acceptable.

FIGURES



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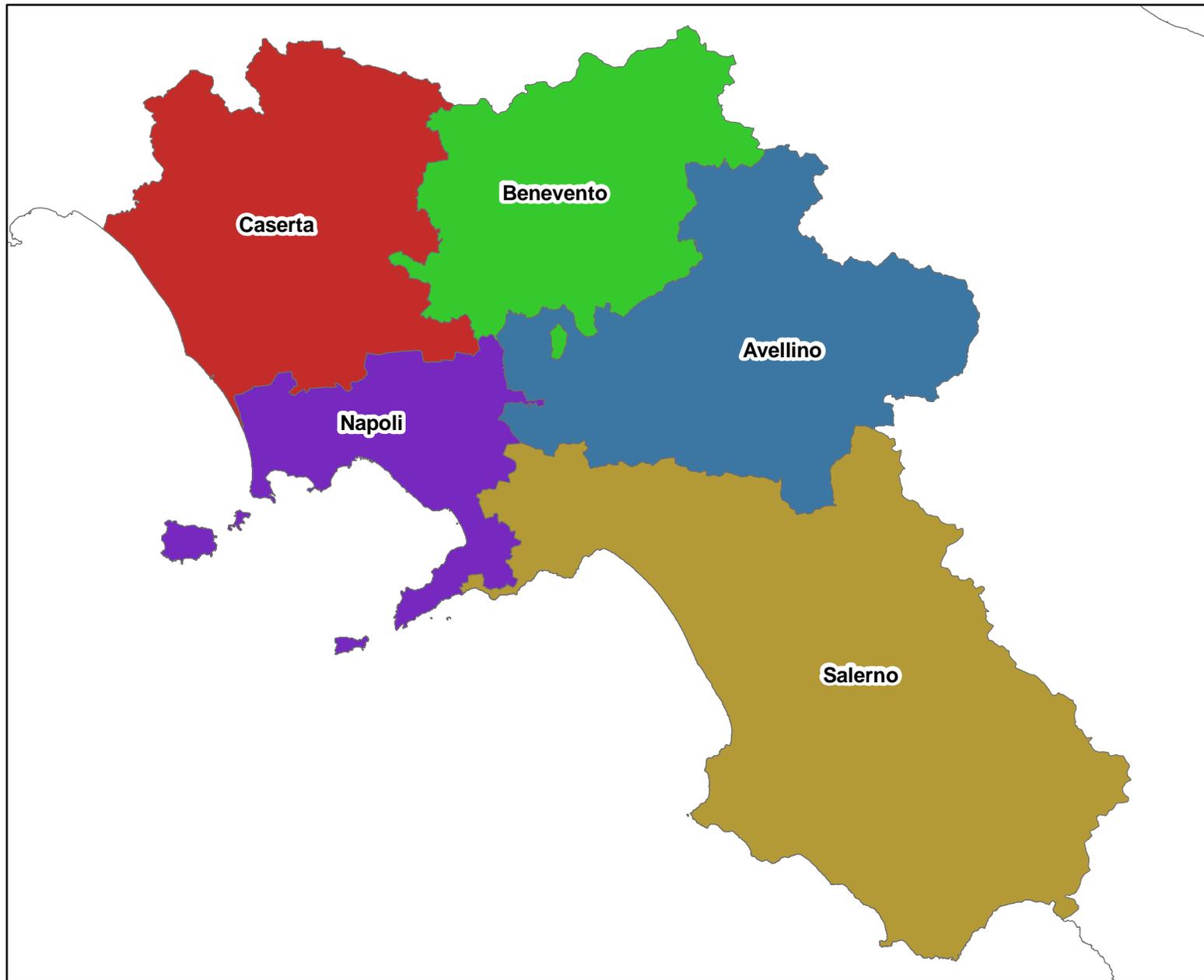
Naples Regional Map
Phase I Naples Public Health Evaluation
Naples, Italy
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DWN:
KG

PROJECT:

DATE:
March 2009

FIGURE NO.:
ES-1



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Campania Provinces
Phase I Naples Public Health Evaluation
Naples, Italy

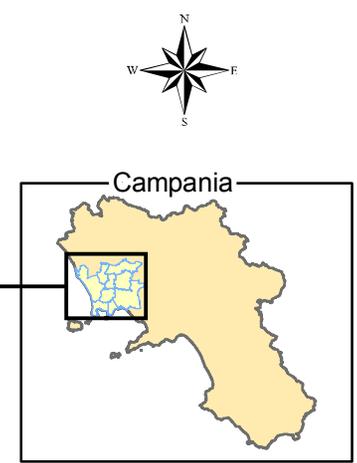
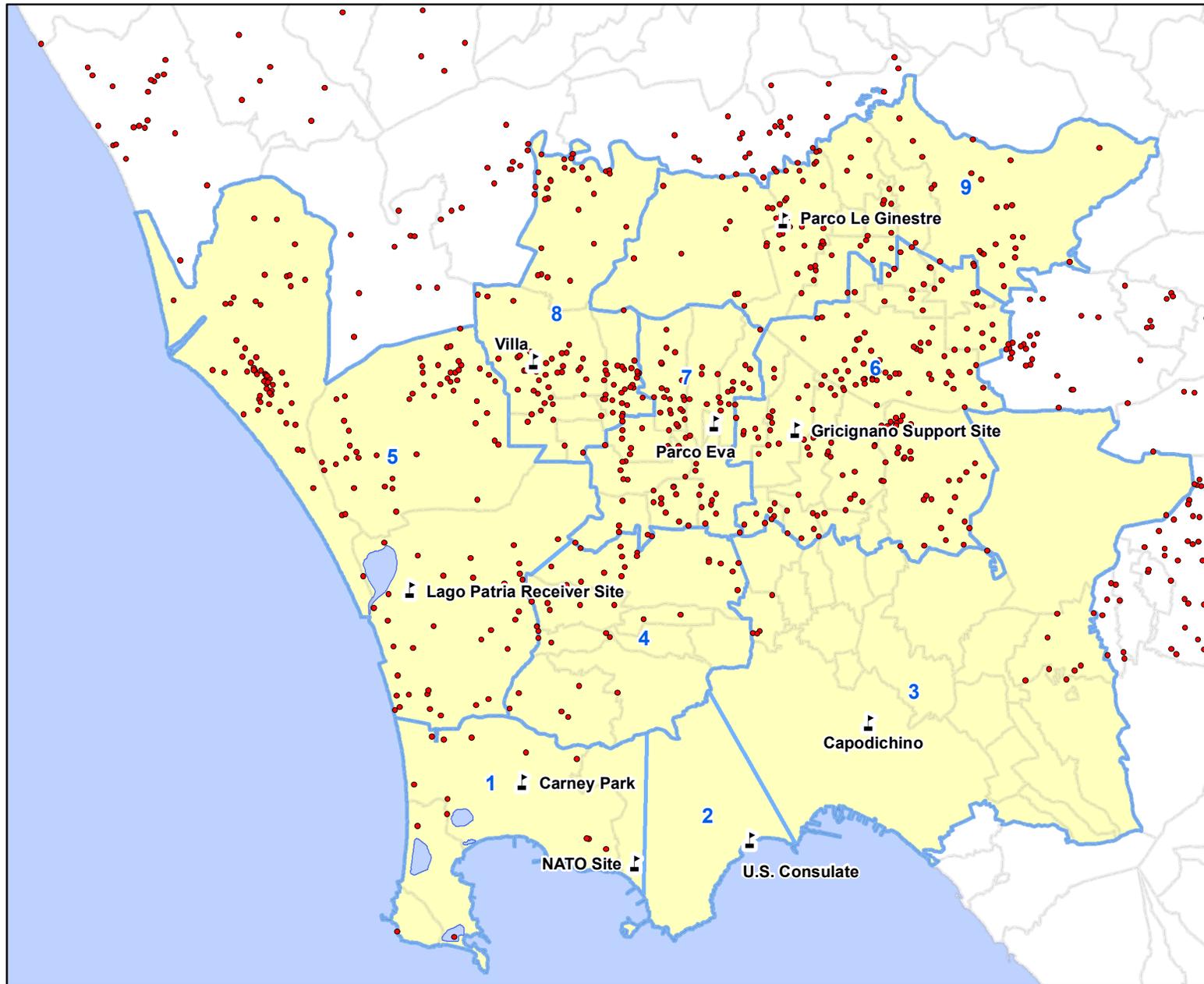
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KG

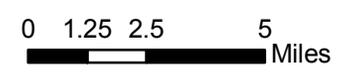
PROJECT:

DATE:
March 2009

FIGURE NO.:
ES-2

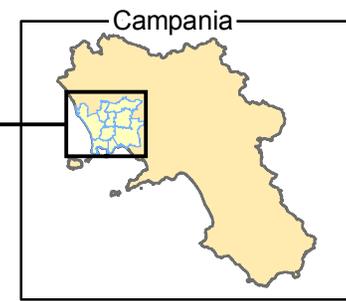
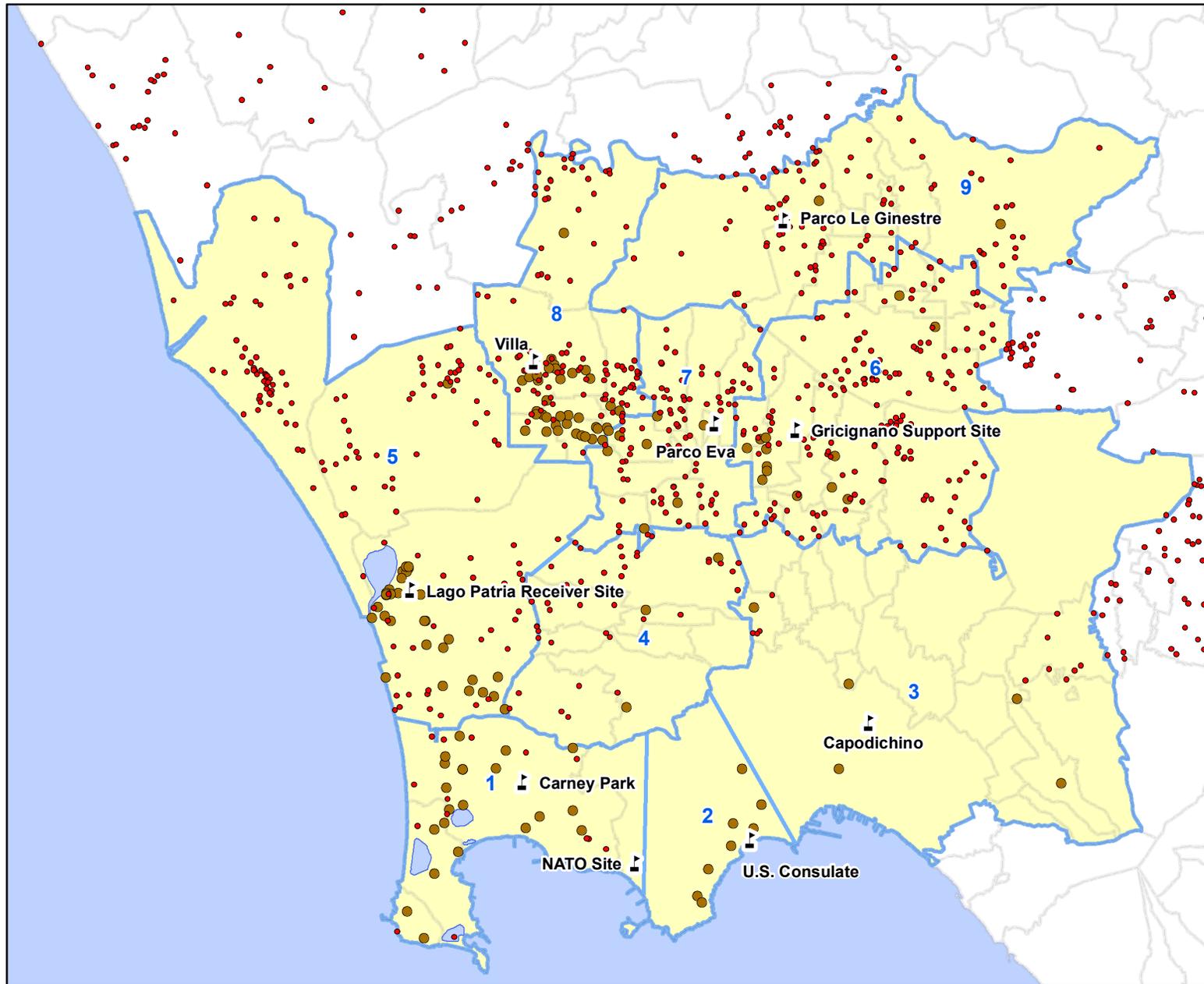


- Legend**
- ⚓ Air Sampling Locations (Gov't Sites)
 - Trash or Potential Hazardous Waste Sites
 - ▭ Study Area Boundary (1-9)
 - ▭ Comune Borders (Campania)



Study Areas and Trash or Potential Hazardous Waste Sites
Phase I Naples Public Health Evaluation
Naples, Italy
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DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-3



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Phase I Residence
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- Comune Borders (Campania)



**Residence/Sampling Locations with
 Relation to Trash or Potential Hazardous Waste Sites
 Phase I Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -

DWN:
KR

PROJECT:

DATE:
March 2009

FIGURE NO.:
ES-4



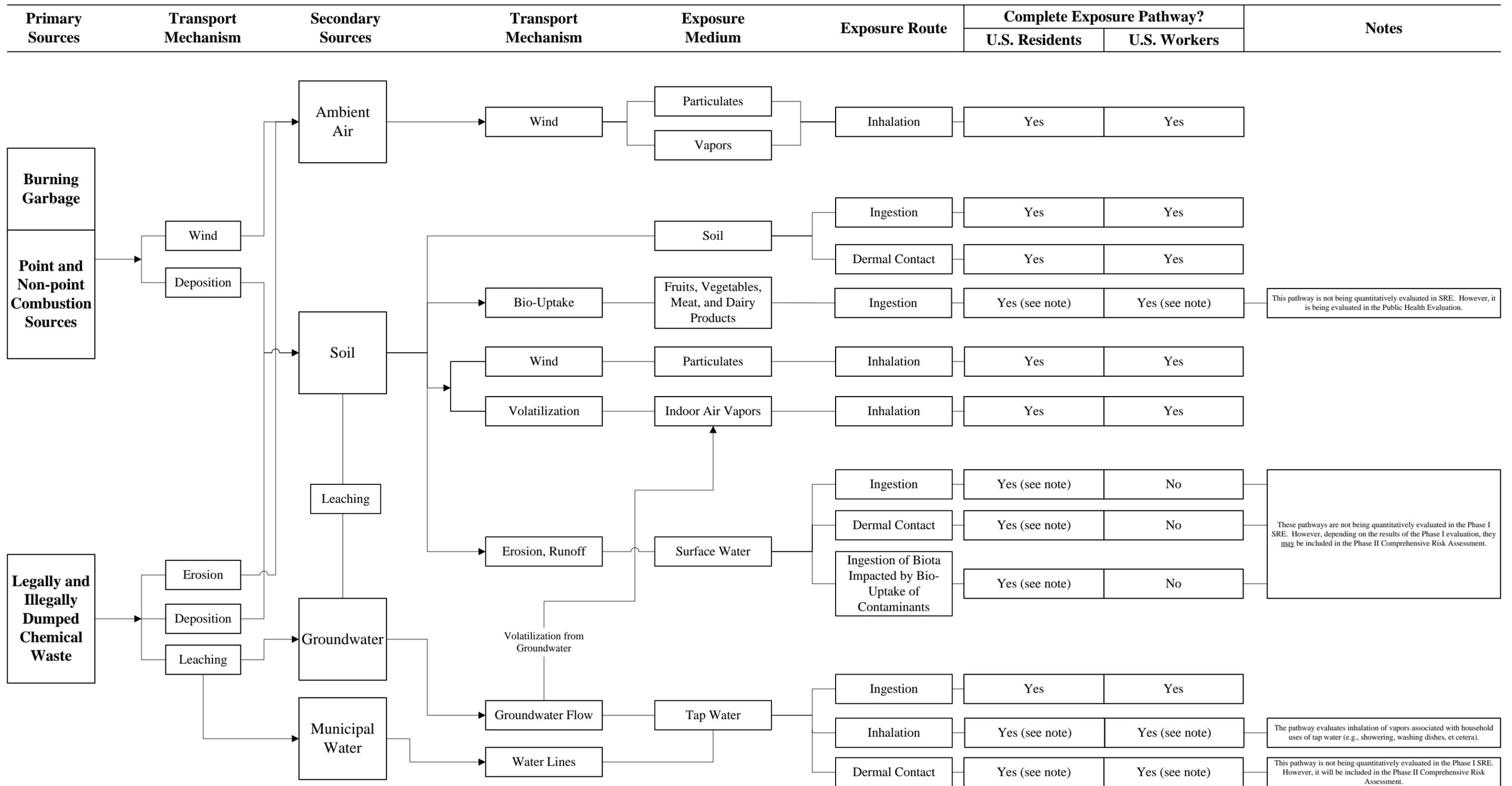
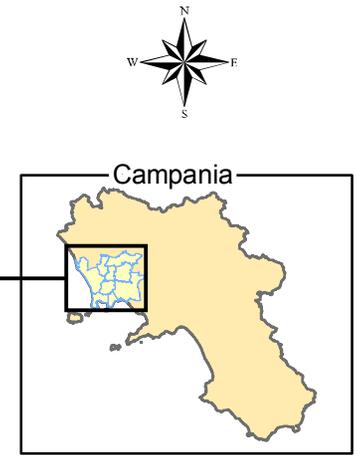
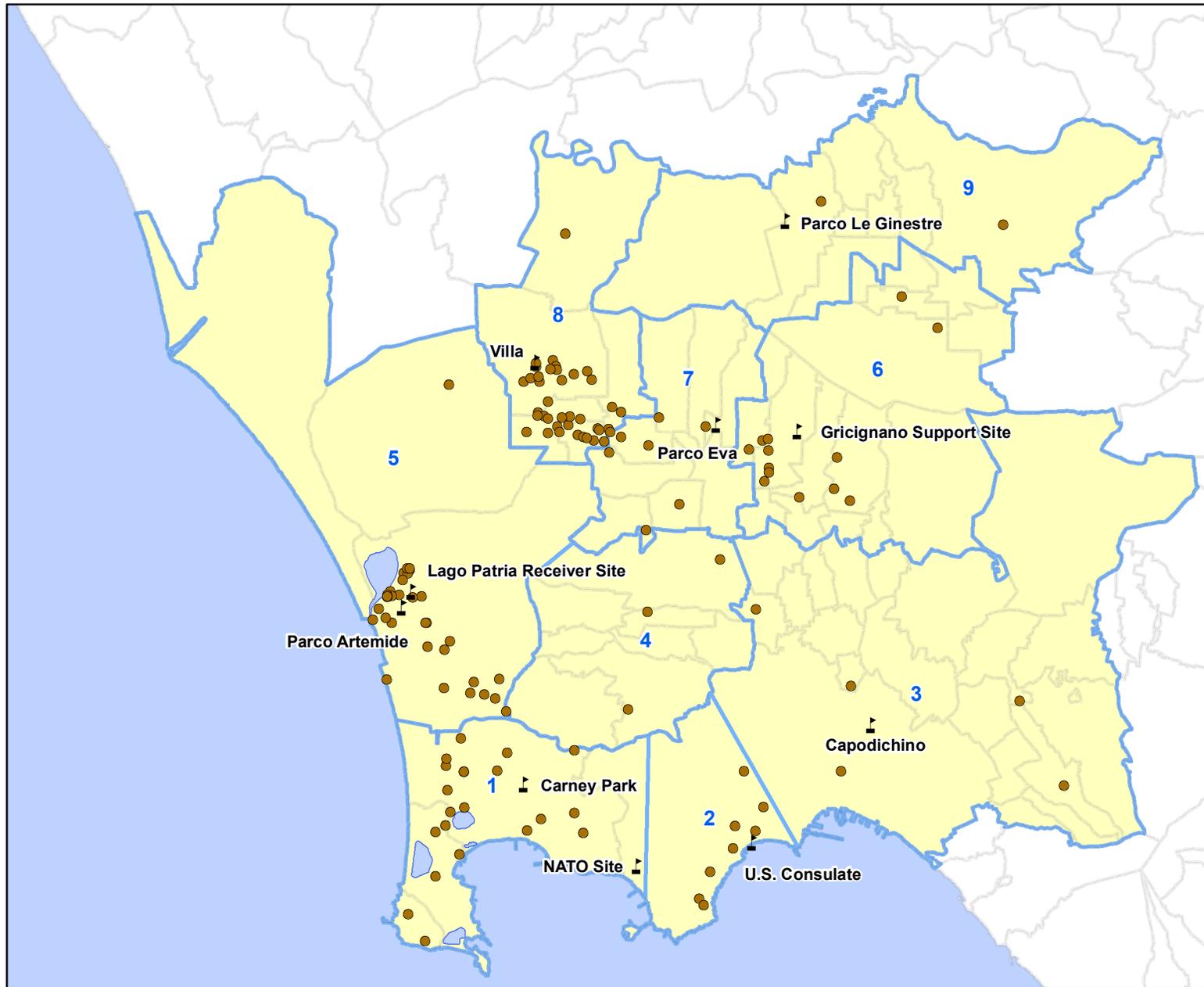


Figure ES-5
Conceptual Site Model
 Naples, Italy Public Health Evaluation





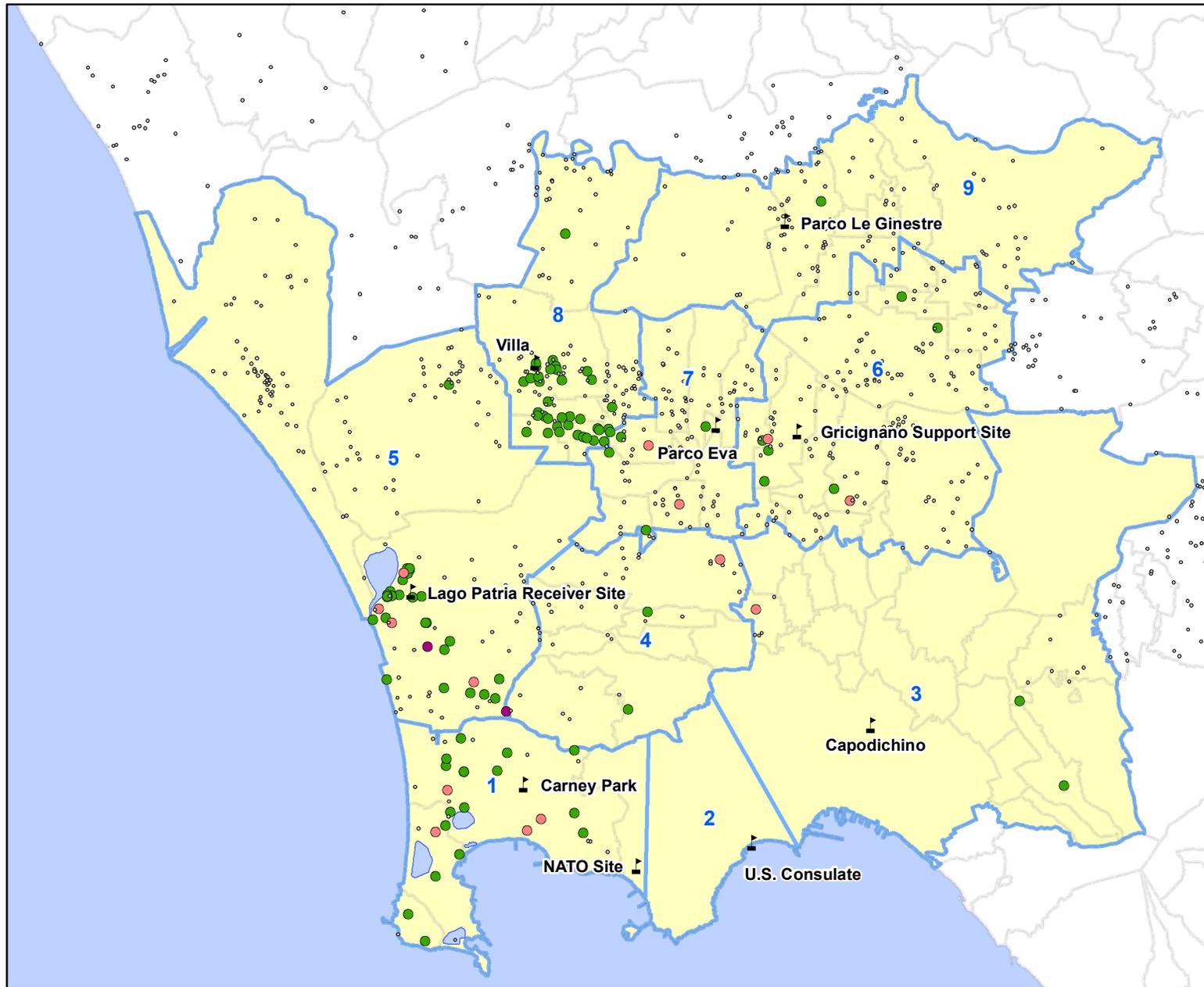
- Legend**
- Phase I Residence
 - ▬ U.S. Government Related Facility
 - ▭ Study Area Boundary (1-9)
 - ▭ Comune Borders (Campania)



Phase I Residence and U.S. Government-Related Locations
Evaluated in the
Phase I Naples Public Health Evaluation
Naples, Italy
- For Internal Navy Use Only -



DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-6



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Soil Cancer RSL Exceedance**
- 1 < CCEF <= 10
- CCEF > 10
- Soil Noncancer RSL Exceedance**
- CNCEF > 1
- Soil without RSL Exceedance**
- CCEF or CNCEF <= 1

Note:
 -CCEF = Cumulative Cancer Exceedance Factor
 -CNCEF = Cumulative Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Residential Regional Screening Level
 -Some residence locations may appear as a single location due to the proximity of the residences.

0 1.25 2.5 5 Miles



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**Soil Cumulative Exceedance Factors
 Phase I Naples Public Health Evaluation
 Naples, Italy**

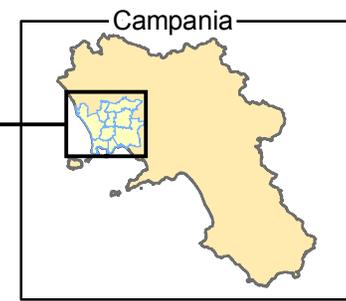
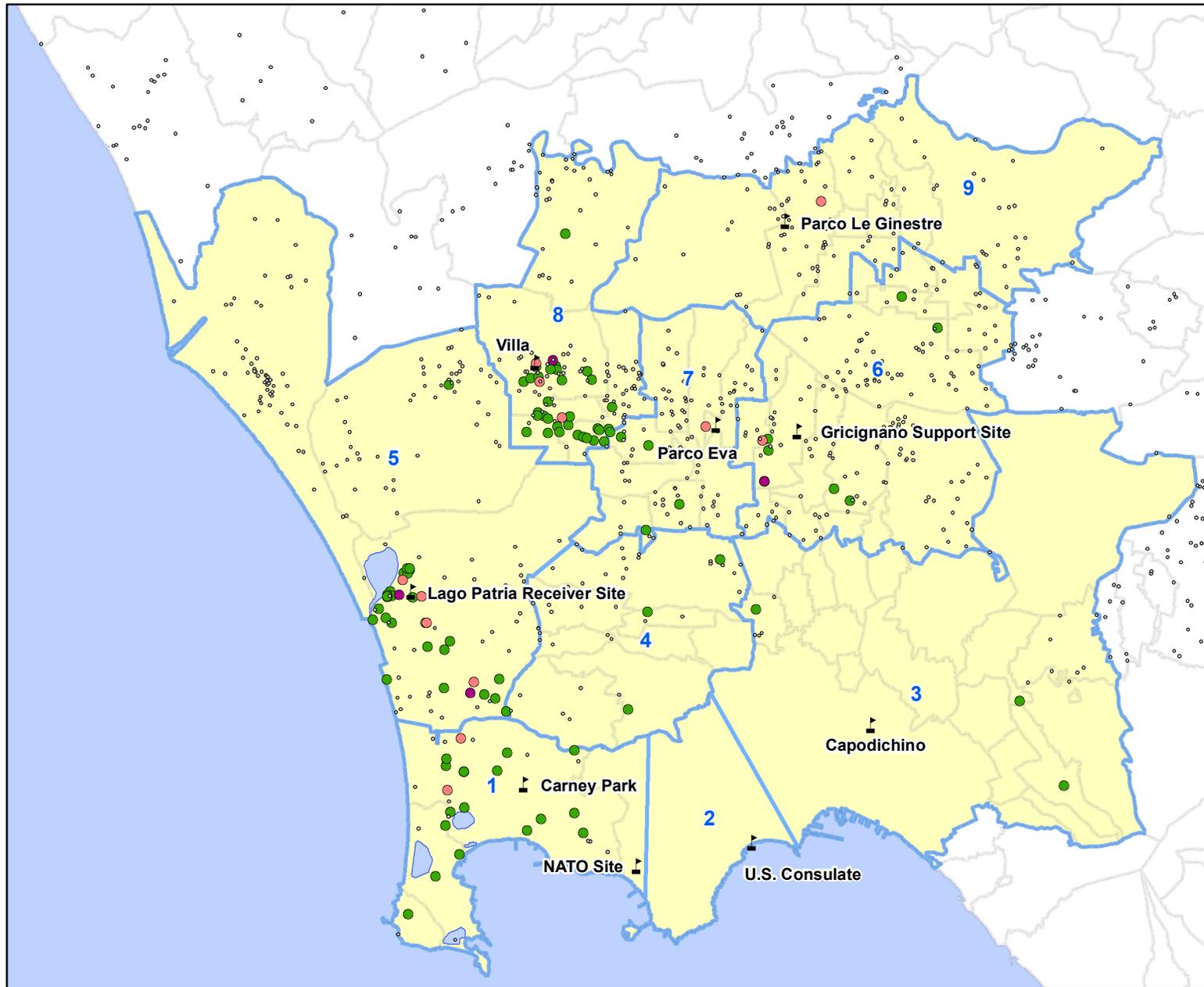
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PROJECT:

DATE:
 March 2009

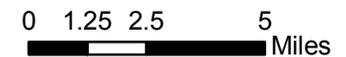
FIGURE NO.:
 ES-7



Legend

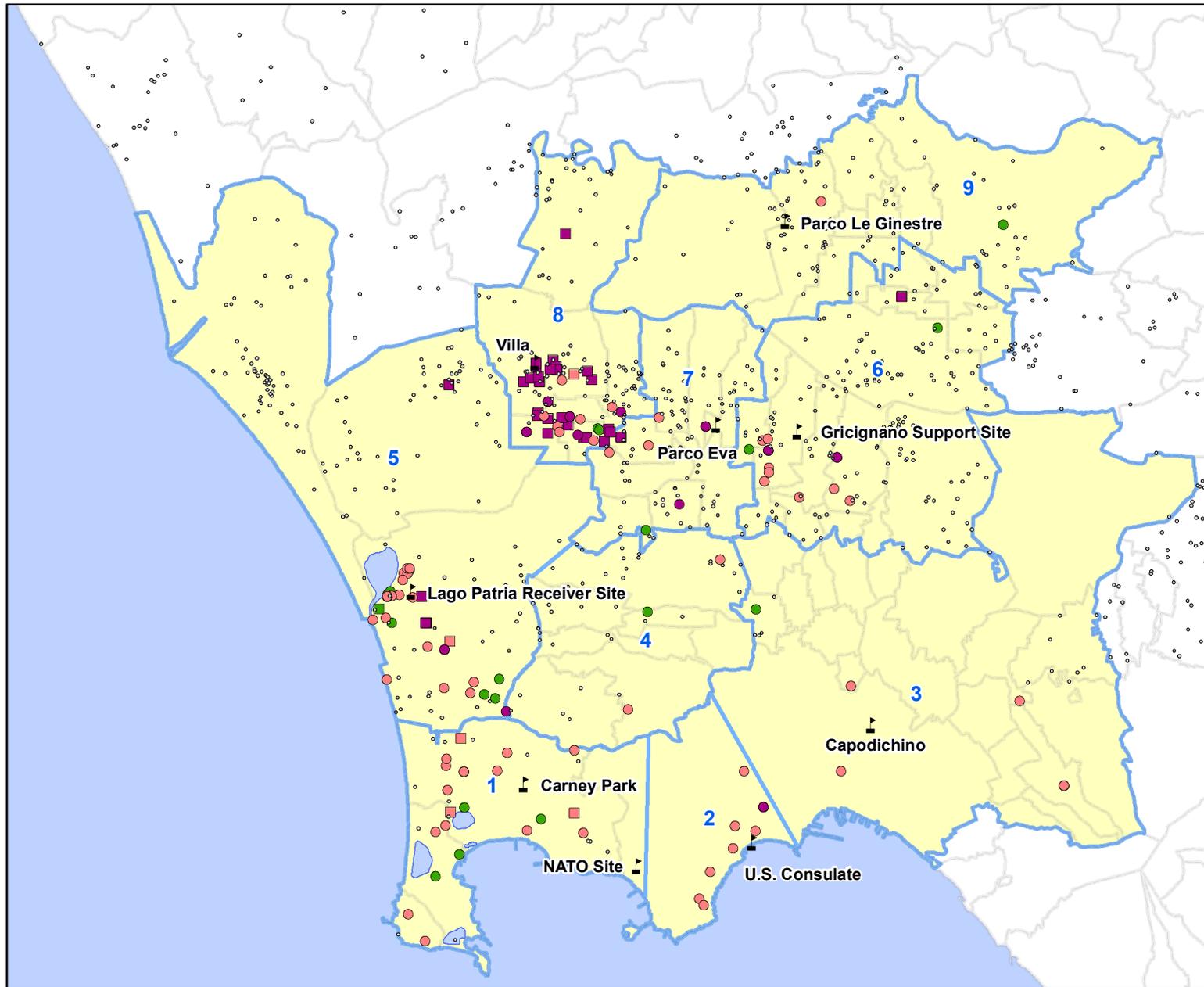
- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Soil Gas Cancer RSL Exceedance**
- 1 < CCEF <= 10
- CCEF > 10
- Soil Gas Noncancer RSL Exceedance**
- CNCEF > 1
- Soil Gas without RSL Exceedance**
- CCEF or CNCEF <= 1

Note:
 -CCEF = Cumulative Cancer Exceedance Factor
 -CNCEF = Cumulative Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Residential Regional Screening Level
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Soil Gas Cumulative Exceedance Factors
 Phase I Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-8



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Public Tap Water Noncancer RSL Exceedance**
- CNCEF > 1
- Public Tap Water Cancer RSL Exceedance**
- 1 < CCEF <= 10
- CCEF > 10
- Public Tap Water without Exceedance**
- CCEF or CNCEF <= 1 or Concentration < USMCL
- Private Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Private Tap Water Noncancer RSL Exceedance**
- CNCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CCEF <= 10
- CCEF > 10
- Private Tap Water without Exceedance**
- CCEF or CNCEF <= 1 or Concentration < USMCL

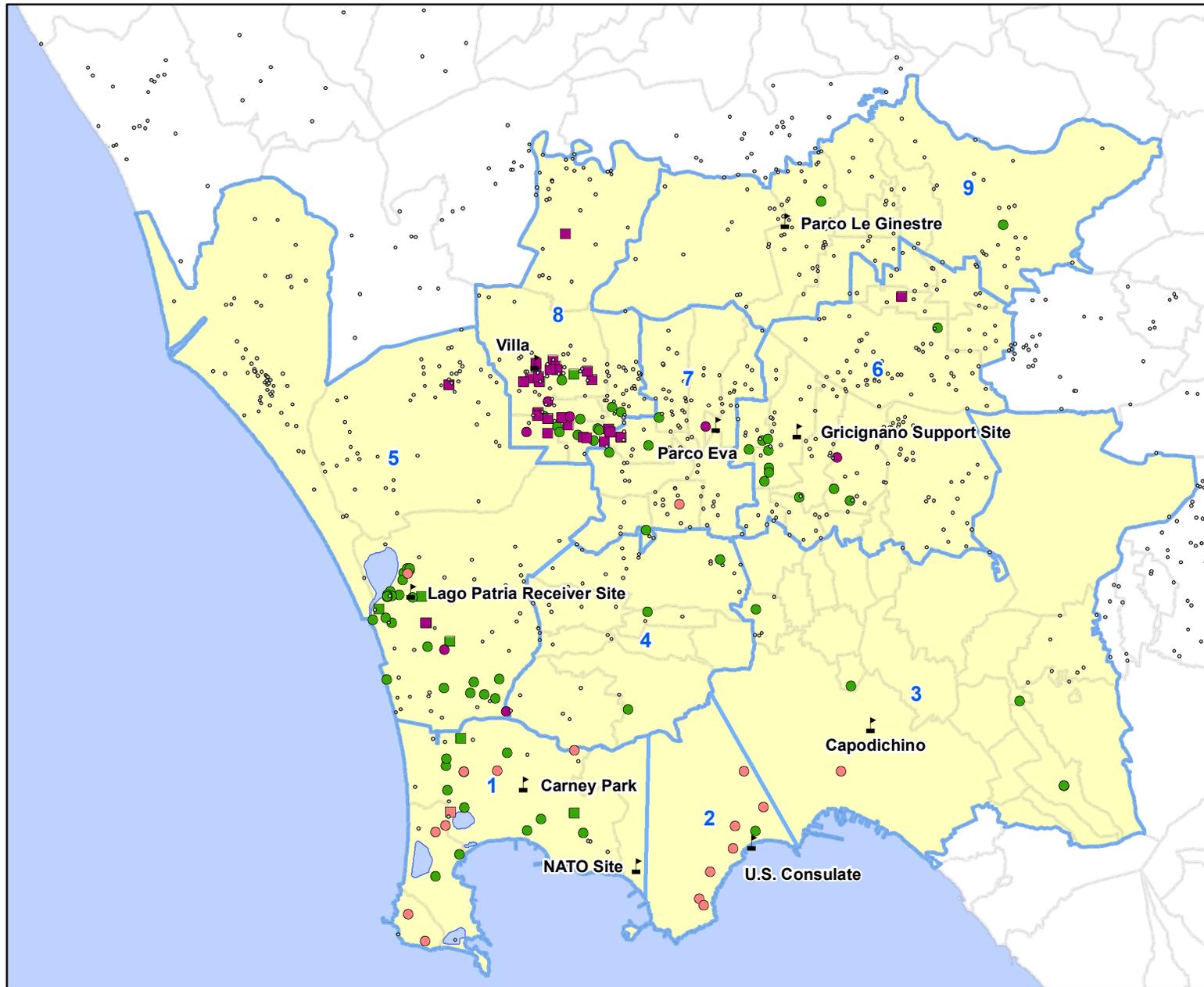
Note:
 -CCEF = Cumulative Cancer Exceedance Factor
 -CNCEF = Cumulative Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Residential Regional Screening Level
 -Cumulative exceedance factors are calculated assuming exposure via inhalation and ingestion.
 -USMCL = United States Maximum Contaminant Level
 -USMCL exceedances apply to all chemicals for the ingestion and inhalation exposure scenario.
 -Private tap water refers to the residence having a private well as a water source for tap water.
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Tap Water Ingestion and Inhalation Cumulative Exceedance Factors
 Phase I Naples Public Health Evaluation
 Naples, Italy**

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-9



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Public Tap Water Noncancer RSL Exceedance**
- CNCEF <= 1
- Public Tap Water Cancer RSL Exceedance**
- 1 < CCEF <= 10
- CCEF > 10
- Public Tap Water without Exceedance**
- CCEF or CNCEF <= 1 or Concentration < USMCL
- Private Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Private Tap Water Noncancer RSL Exceedance**
- CNCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CCEF <= 10
- CCEF > 10
- Private Tap Water without Exceedance**
- CCEF or CNCEF <= 1 or Concentration < USMCL

Note:

- CCEF = Cumulative Cancer Exceedance Factor
- CNCEF = Cumulative Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- Cumulative exceedance factors are calculated assuming exposure via inhalation only.
- USMCL = United States Maximum Contaminant Level
- USMCL exceedances only apply to fecal and total coliforms (including fecal coliform and e. coli) for the inhalation-only exposure scenario.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.

0 1.25 2.5 5 Miles



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**Tap Water Inhalation Cumulative Exceedance Factors
Phase I Naples Public Health Evaluation
Naples, Italy**

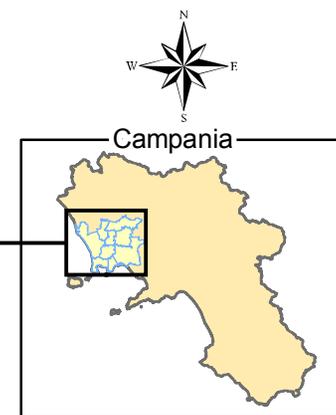
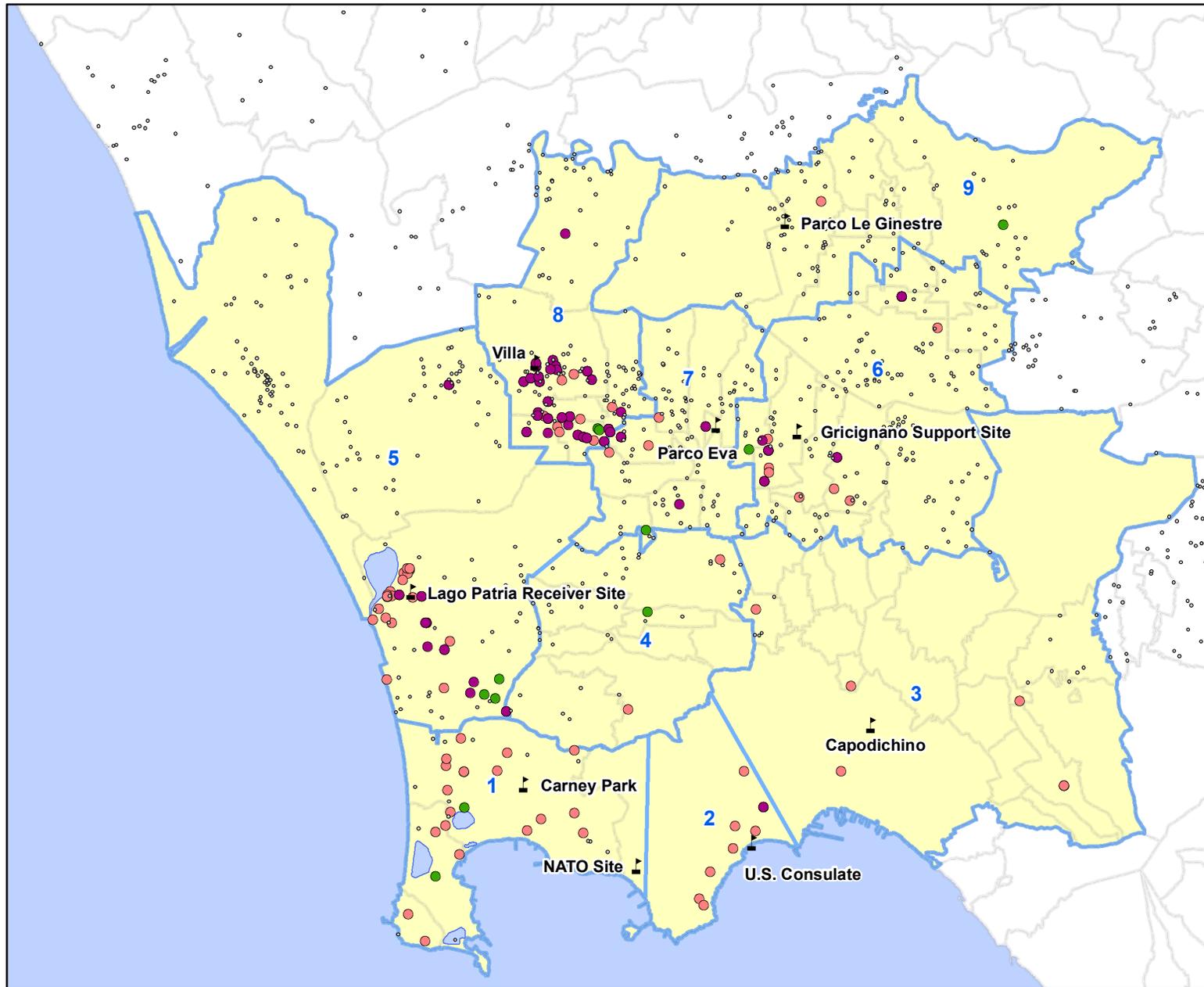
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DATE:
March 2009

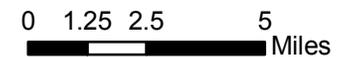
FIGURE NO.:
ES-10



Legend

- ▲ Air Sampling Locations (Govt Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Residence is Unacceptable**
- Tap Water Concentration > USMCL
- Total CNCEF > 1
- Total CCEF > 10
- Residence is Acceptable**
- 1 < Total CCEF <= 10
- Total CCEF or Total CNCEF <= 1 or Concentration < USMCL

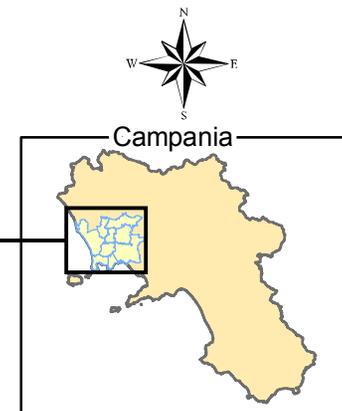
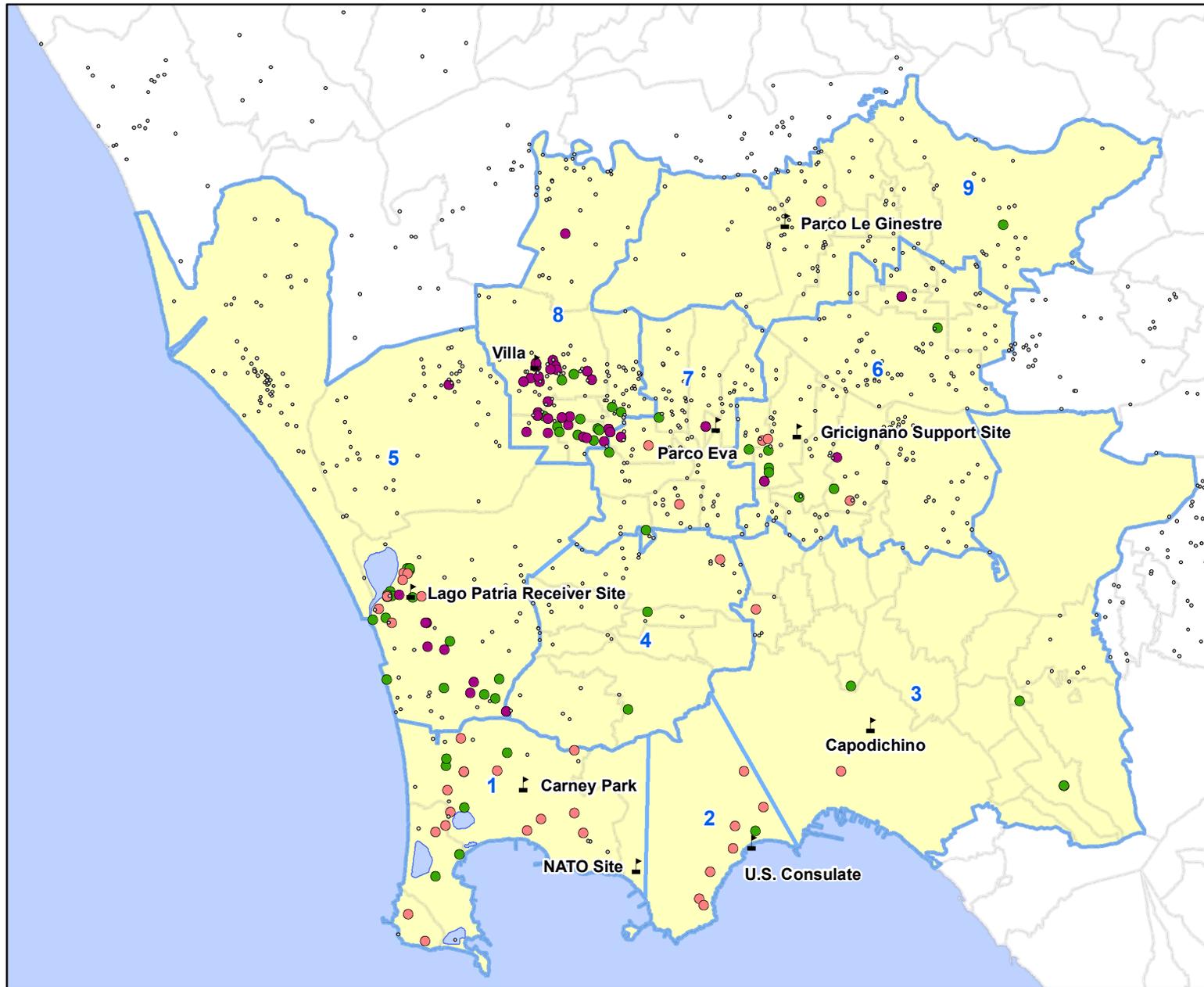
Note:
 -CCEF = Cumulative Cancer Exceedance Factor
 -CNCEF = Cumulative Noncancer Exceedance Factor
 -The total cumulative ingestion and inhalation exceedance factors are calculated assuming exposure via soil, soil gas, and tap water (ingestion and inhalation) for both public water and private well sources.
 -USMCL = United States Maximum Contaminant Level
 -USMCL exceedances apply to all chemicals for the ingestion and inhalation exposure scenario.
 -Figure does not include ambient air exposure.
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Total Ingestion and Inhalation Cumulative Exceedance Factors
 Phase I Naples Public Health Evaluation
 Naples, Italy**

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-11



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Residence is Unacceptable**
- Tap Water Concentration > USMCL
- Total CNCEF > 1
- Total CCEF > 10
- Residence is Acceptable**
- 1 < Total CCEF <= 10
- Total CCEF or Total CNCEF <= 1 or Concentration < USMCL

Note:

- CCEF = Cumulative Cancer Exceedance Factor
- CNCEF = Cumulative Noncancer Exceedance Factor
- The total cumulative inhalation exceedance factors are calculated assuming exposure via soil, soil gas, and tap water (inhalation-only) for both public water and private well sources.
- USMCL = United States Maximum Contaminant Level
- USMCL exceedances only apply to fecal and total coliforms (including fecal coliform and e. coli) for the inhalation-only exposure scenario.
- Figure does not include ambient air exposure.
- Some residence locations may appear as a single location due to the proximity of the residences.

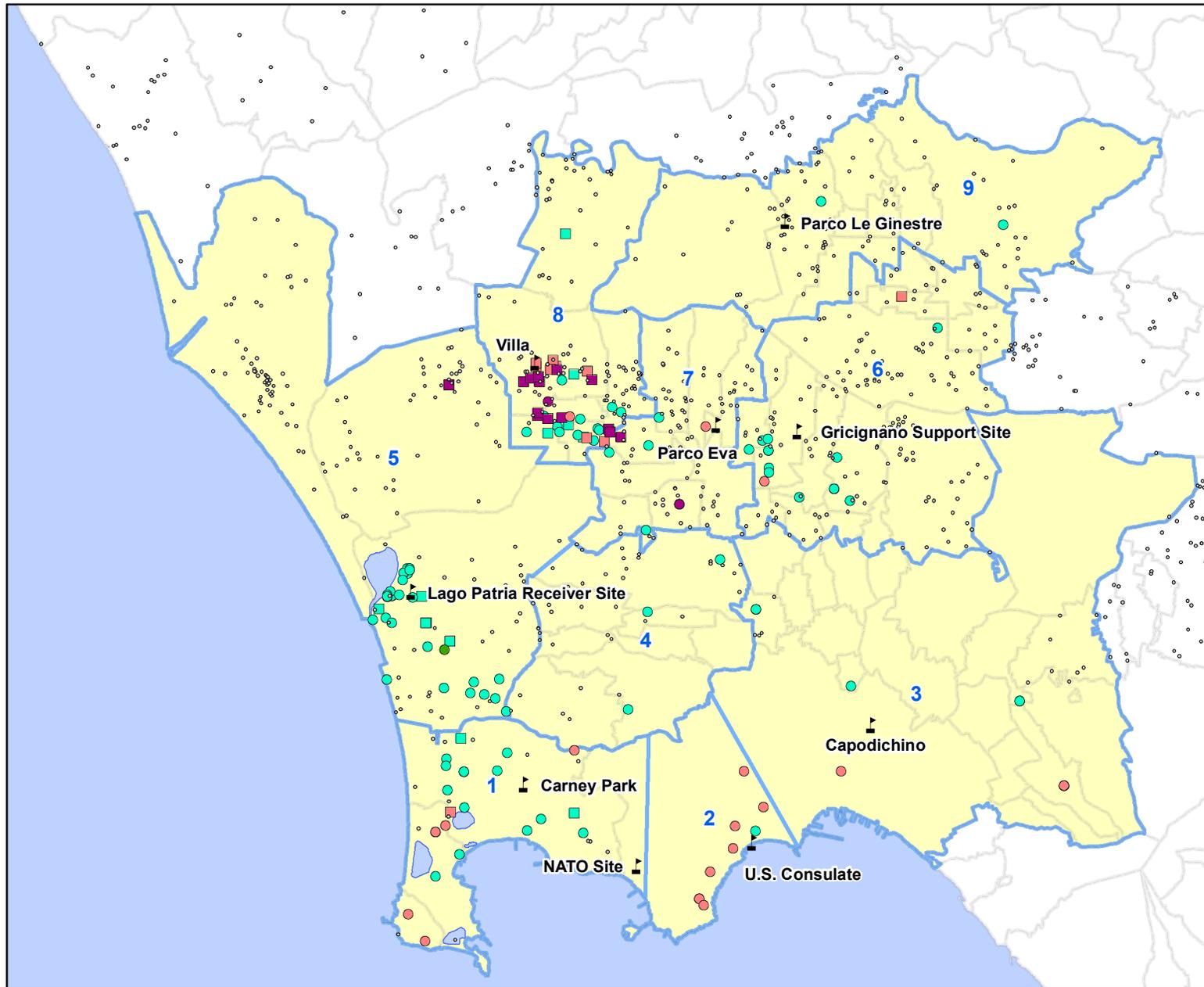


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**Total Inhalation Cumulative Exceedance Factors
Phase I Naples Public Health Evaluation
Naples, Italy**

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-12



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Public Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Public Tap Water Cancer RSL Exceedance**
- 1 < CEF ≤ 10
- CEF > 10
- Public Tap Water without Exceedance**
- CEF or NCEF ≤ 1 or Concentration < USMCL
- Non-Detect
- Private Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Private Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CEF ≤ 10
- CEF > 10
- Private Tap Water without Exceedance**
- CEF or NCEF ≤ 1 or Concentration < USMCL
- Non-Detect

Note:

- CEF = Cancer Exceedance Factor
- NCEF = Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- USMCL = United States Maximum Contaminant Level
- Exceedance factors are calculated assuming exposure via ingestion and inhalation.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.



**Tap Water Ingestion and Inhalation Tetrachloroethene Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy**

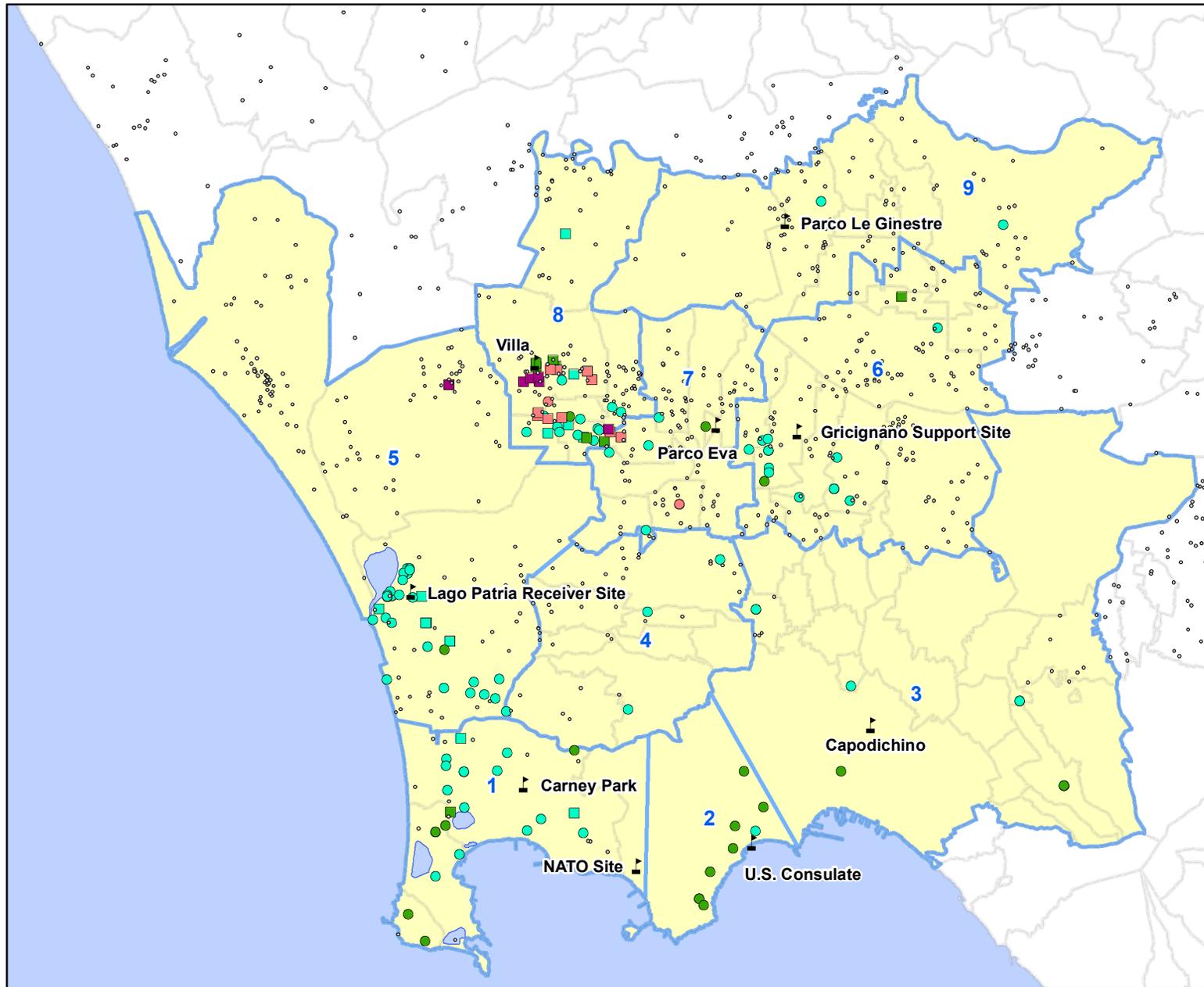
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DWN:
KR

PROJECT:

DATE:
March 2009

FIGURE NO.:
ES-13



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Public Tap Water Cancer RSL Exceedance**
- 1 < CEF ≤ 10
- CEF > 10
- Public Tap Water without Exceedance**
- CEF or NCEF ≤ 1
- Non-Detect
- Private Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CEF ≤ 10
- CEF > 10
- Private Tap Water without Exceedance**
- CEF or NCEF ≤ 1
- Non-Detect

Note:

- CEF = Cancer Exceedance Factor
- NCEF = Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- Exceedance factors are calculated assuming exposure via inhalation-only.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.

0 1.25 2.5 5 Miles



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Tap Water Inhalation Tetrachloroethene Exceedances Phase I Naples Public Health Evaluation Naples, Italy

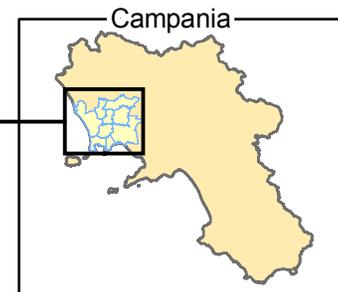
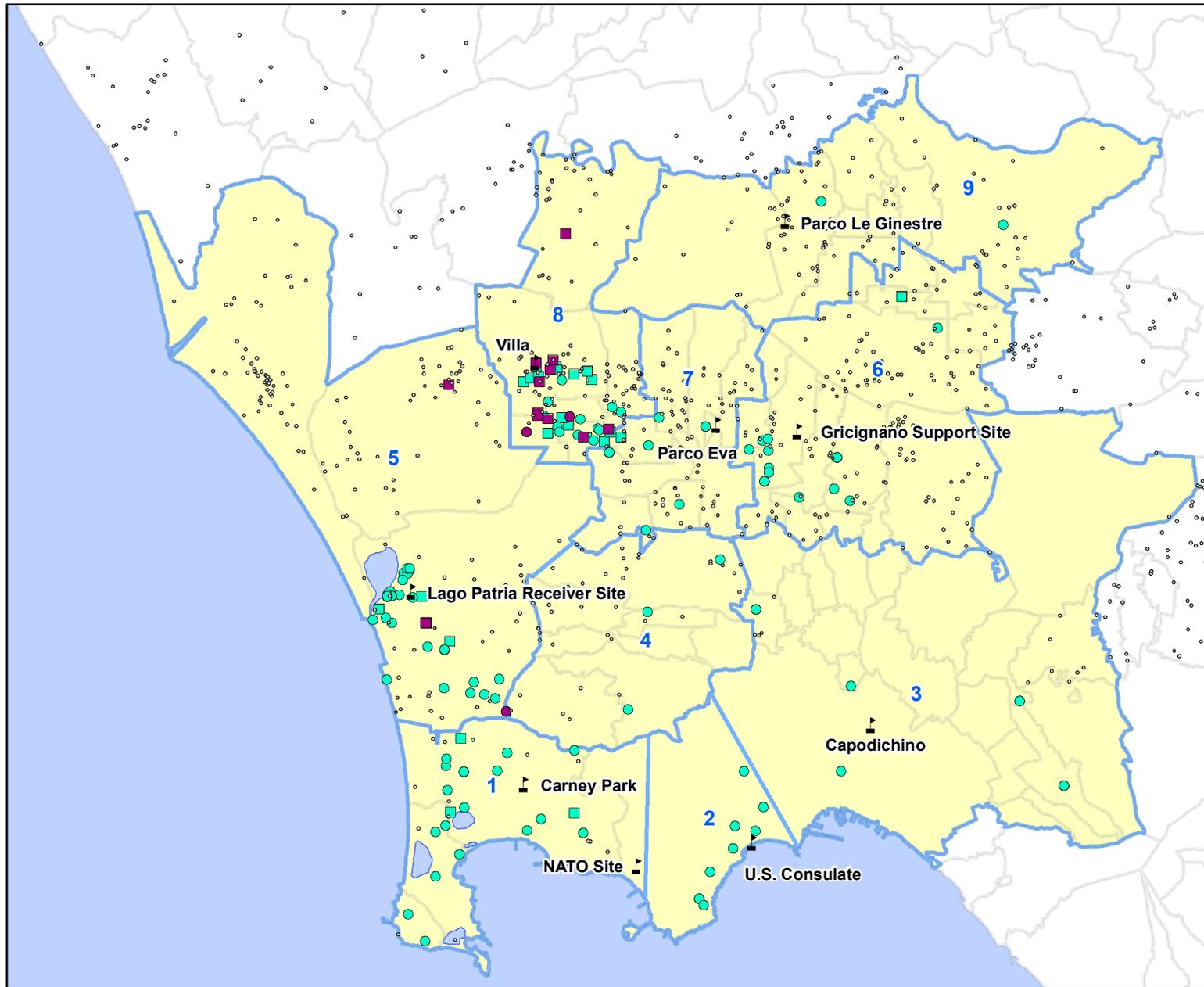
- For Internal Navy Use Only -

DWN:
KR

PROJECT:

DATE:
March 2009

FIGURE NO.:
ES-14



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water USMCL Exceedances**
 - Tap Water Concentration > USMCL
 - Non-Detect
- Private Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
 - Non-Detect

Note:
 -USMCL = United States Maximum Contaminant Level
 -Private tap water refers to the residence having a private well as a water source for tap water.
 -Some residence locations may appear as a single location due to the proximity of the residences.



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Tap Water Fecal Coliform Exceedances Phase I Naples Public Health Evaluation Naples, Italy

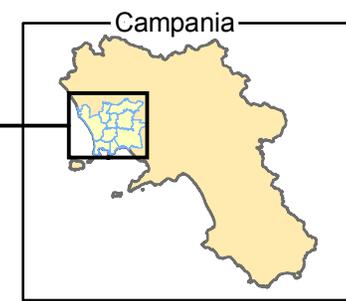
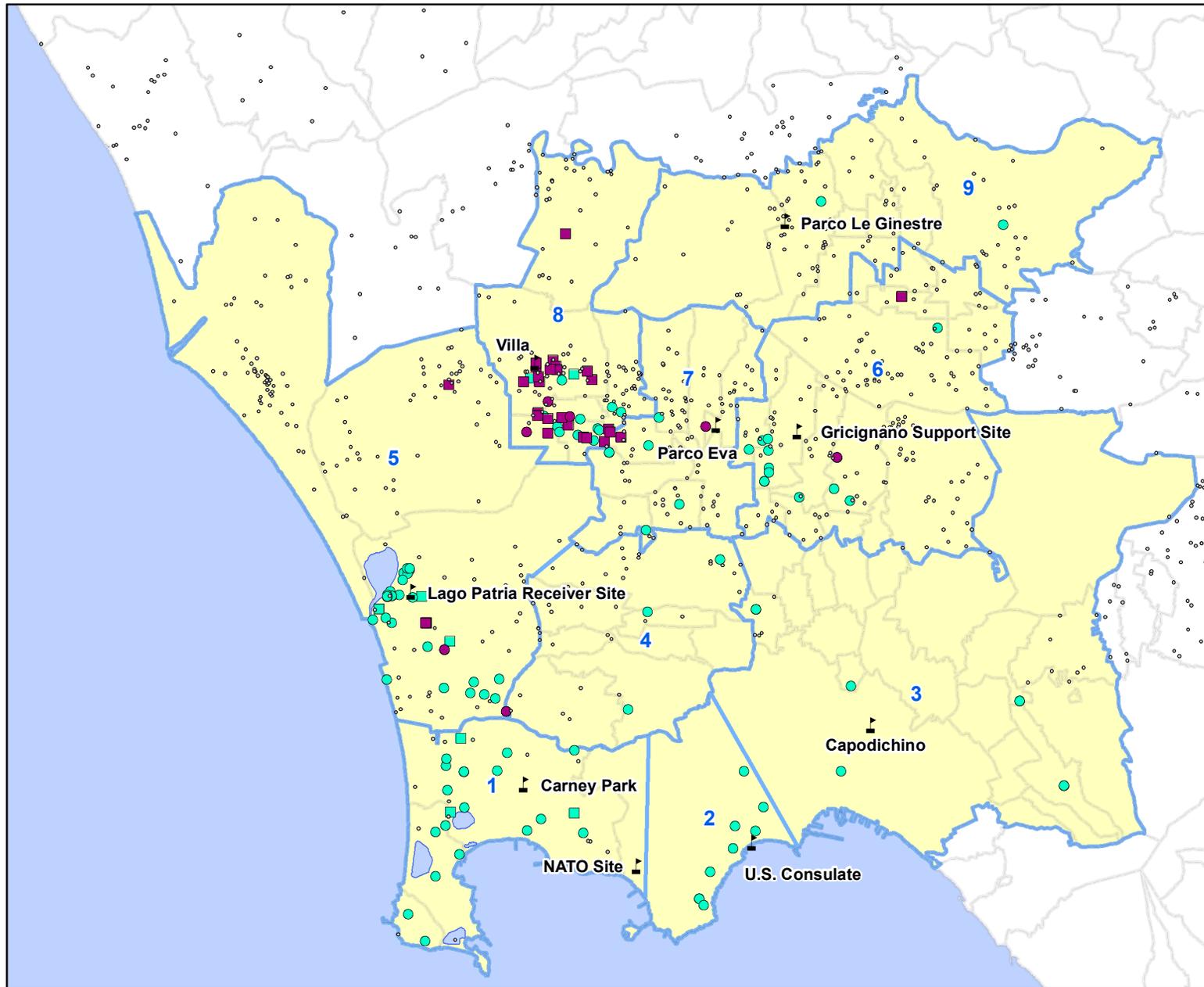
- For Internal Navy Use Only -

DWN:
KR

PROJECT:

DATE:
March 2009

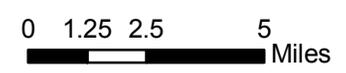
FIGURE NO.:
ES-15



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- Comune Borders (Campania)
- Public Tap Water USMCL Exceedances**
 - Tap Water Concentration > USMCL
 - Non-Detect
- Private Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
 - Non-Detect

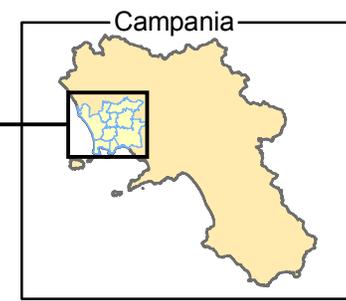
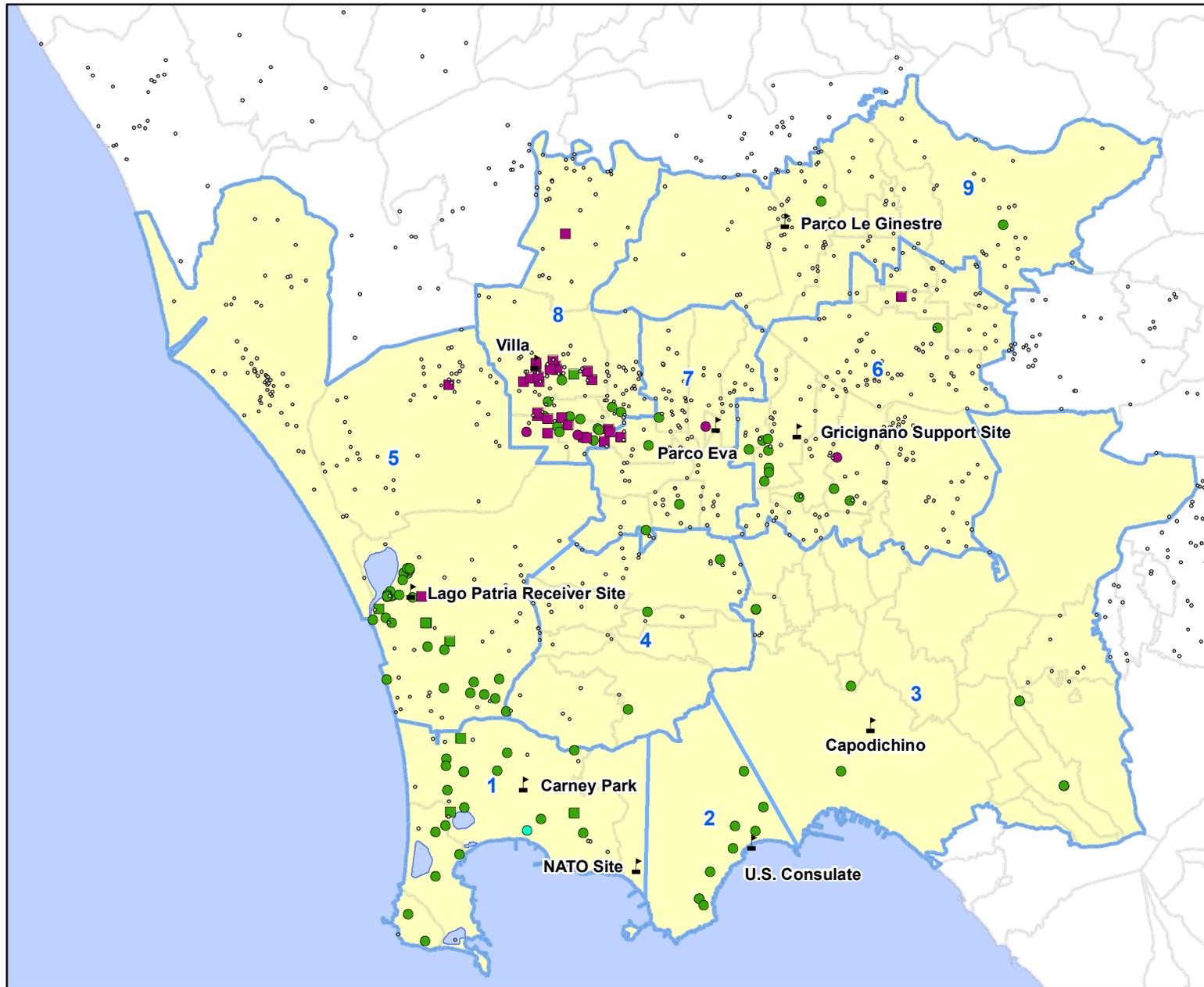
Note:
 -USMCL = United States Maximum Contaminant Level
 -Private tap water refers to the residence having a private well as a water source for tap water.
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Tap Water Total Coliforms Exceedances
 Phase I Naples Public Health Evaluation
 Naples, Italy**
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DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-16



Legend

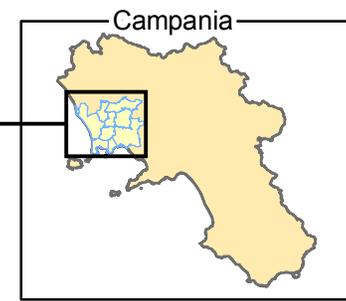
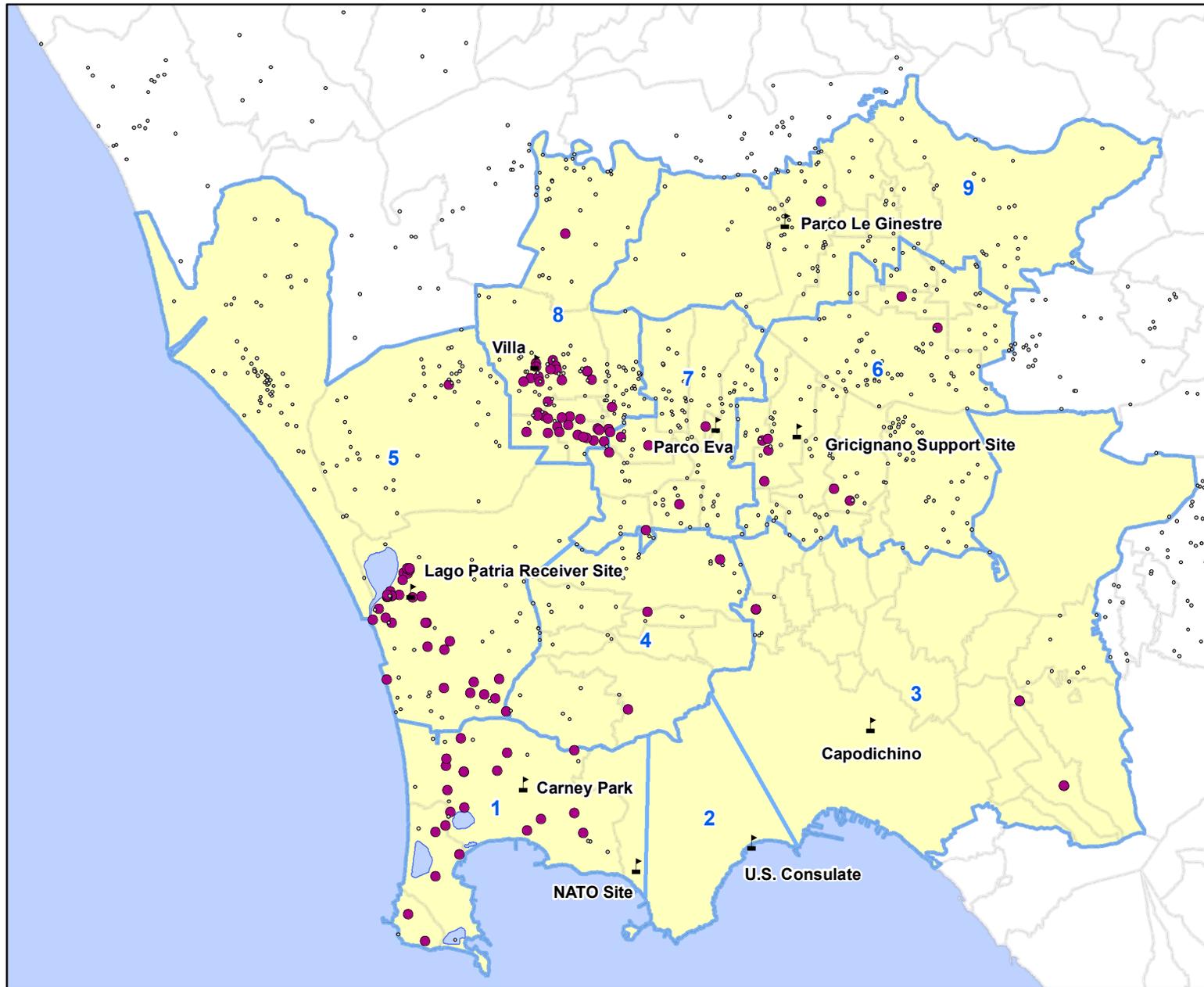
- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Public Tap Water without USMCL Exceedance**
- Tap Water Concentration < USMCL
- Non-Detect
- Private Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Private Tap Water without USMCL Exceedance**
- Tap Water Concentration < USMCL
- Non-Detect

Note:
 -USMCL = United States Maximum Contaminant Level
 -Private tap water refers to the residence having a private well as a water source for tap water.
 -Some residence locations may appear as a single location due to the proximity of the residences.



Tap Water Ingestion and Inhalation Nitrate Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy
- For Internal Navy Use Only -

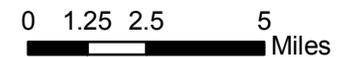
DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-17



Legend

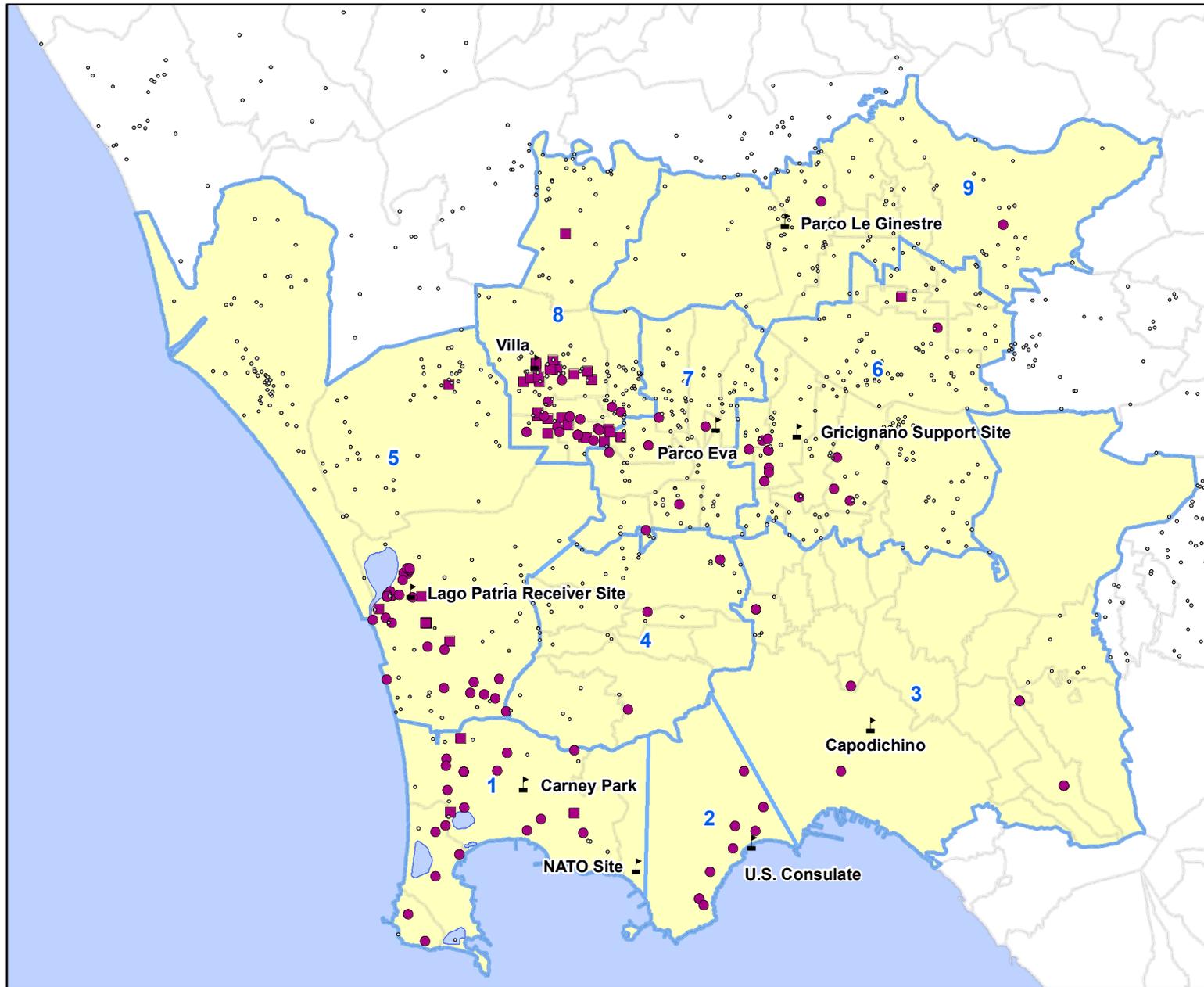
- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Soil Noncancer RSL Exceedance**
- NCEF > 1
- Soil Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Soil without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect

Note:
 -CEF = Cancer Exceedance Factor
 -NCEF = Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Regional Screening Level
 -Some residence locations may appear as a single location due to the proximity of the residences.



Soil Arsenic Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-18

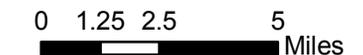


Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Public Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Public Tap Water Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Public Tap Water without Exceedance**
- CEF or NCEF <= 1 or Concentration < USMCL
- Non-Detect
- Private Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Private Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Private Tap Water without Exceedance**
- CEF or NCEF <= 1 or Concentration < USMCL
- Non-Detect

Note:

- CEF = Cancer Exceedance Factor
- NCEF = Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- USMCL = United States Maximum Contaminant Level
- Exceedance factors are calculated assuming exposure via ingestion and inhalation.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.

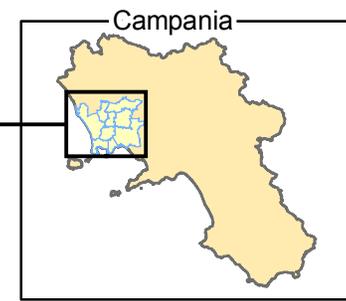
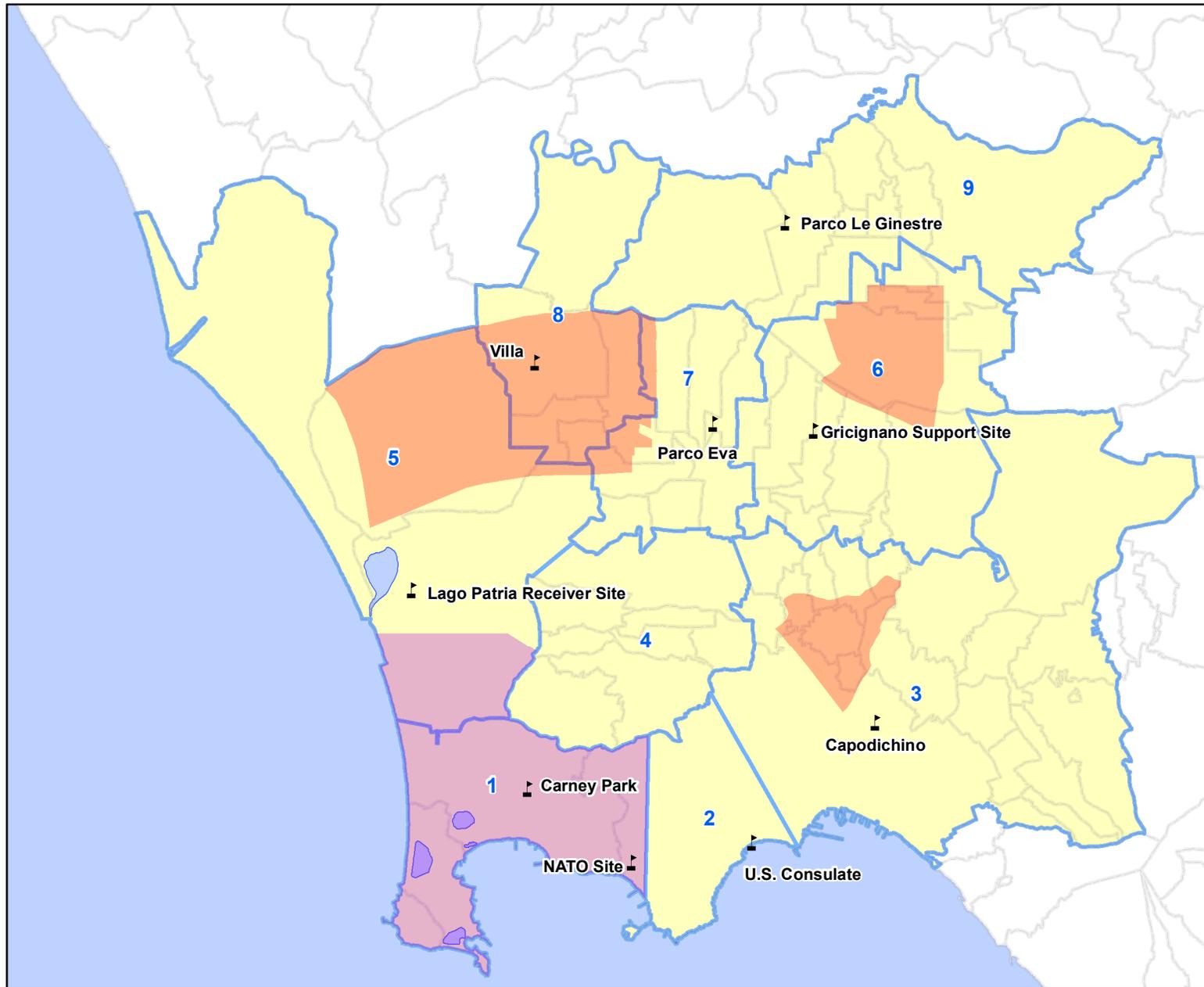


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**Tap Water Ingestion and Inhalation Arsenic Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy**

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-19



- Legend**
- Air Sampling Locations (Gov't Sites)
 - Recommended Economy Housing Areas
 - NLSZ
 - Study Area Boundary (1-9)
 - Comune Borders (Campania)

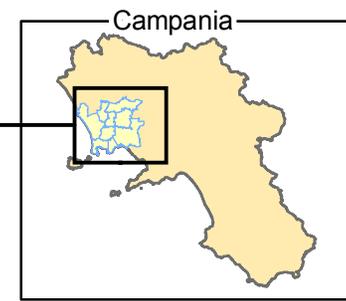
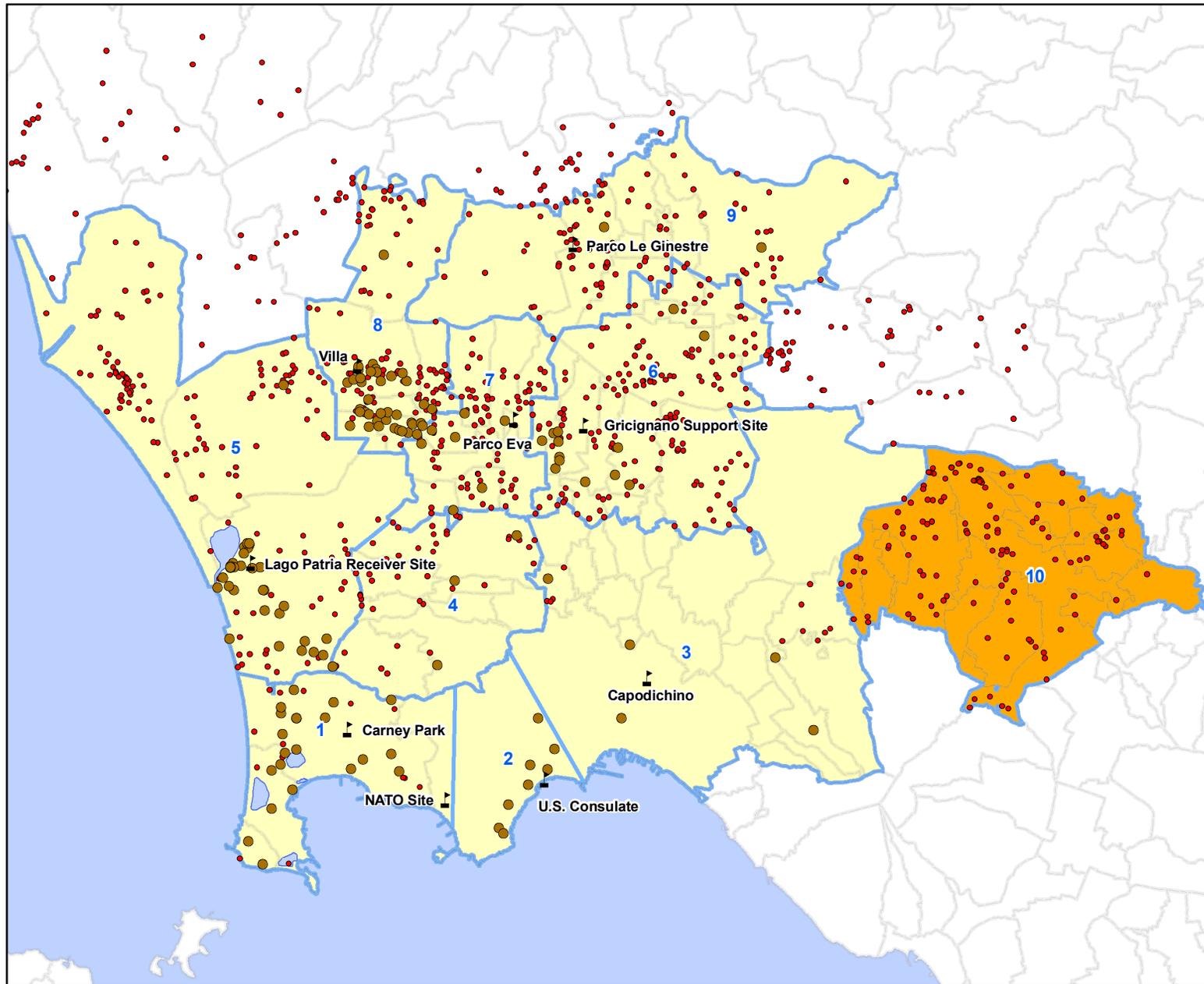
Notes:
 NLSZ - New Lease Suspension Zone

0 1.25 2.5 5 Miles

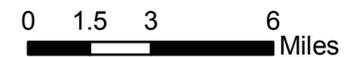
**New Lease Suspension Zones and Recommended
 Economy Housing Areas
 Phase I Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -



DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-20



- Legend**
- Air Sampling Locations (Gov't Sites)
 - Trash or Potential Hazardous Waste Sites
 - Phase I Residence
 - Study Area Boundary (1-9)
 - Potential Study Area 10
 - Comune Borders (Campania)



Potential Study Area 10
Phase I Naples Public Health Evaluation
Naples, Italy
- For Internal Navy Use Only -



DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: ES-21

SECTION 1 – INTRODUCTION

For more than a decade, the Campania region of Italy has experienced numerous challenges associated with trash collection, uncontrolled, open burning of uncollected trash, and widespread dumping of waste, including chemical and other potentially hazardous waste. Uncontrolled, open burning of uncollected trash is cyclical and typically peaks in late spring and summer. In response to health concerns expressed by the United States Navy (USN) and their civilian personnel and families, the Commander Navy Region Europe, Africa, Southwest Asia (CNREURAFSWA) contacted the Navy Bureau of Medicine and Surgery (BUMED) and requested that the USN and Marine Corps Public Health Center (NMCPHC) conduct a comprehensive Public Health Evaluation (PHE). Because a comprehensive PHE will take over one year to complete, the USN has implemented a phased approach for this study. The first phase of this study entails an Environmental Testing Support Assessment, which includes a screening risk evaluation of air, tap water, soil, and soil gas data.

This report documents the findings of a screening risk evaluation (SRE). The purpose of the SRE is to determine whether or not there are any potential health impacts associated with exposure to surface soil, indoor air, tap water¹, and ambient (outdoor) air USN personnel (active duty, civilians, and their families), residing in the Naples area of Campania. This SRE was conducted in accordance with U.S. Environmental Protection Agency (USEPA) Risk Assessment Guidance. It is consistent, where appropriate, with the Naples, Italy Environmental Testing Support Assessment (ETSA) Work Plan (Tetra Tech, 2008a).

The results of this SRE will be used to determine:

- Whether or not exposure to surface soil, indoor air, tap water, and ambient air poses an unacceptable risk to USN personnel, based on USEPA and USN risk assessment guidelines;
- If additional investigations are necessary to ensure the safety and well being of USN personnel residing in Campania; and
- Data quality objectives and the scope of such investigations (e.g., number and locations of sample collection, analytical methods that should be pursued, et cetera).

This report utilizes information presented in several documents including:

- Phase I ETSA Report: Volume 1 (Tetra Tech, 2009);
- ETSA Work Plan (Tetra Tech, 2008a);
- ETSA Field Sampling Plan (Tetra Tech, 2008b); and
- Quality Assurance Project Plan (QAPP) (Tetra Tech, 2008c).

¹ Tap water refers to public water, private wells, and blended water sources. Blended water refers to non-permitted (illegal wells) that are connected to the public water supply system, resulting in blended public water and well water.

1.1 Site Location and Setting

The Campania region is located in southwestern Italy and is divided into five provinces: Napoli (Naples), Benevento, Avellino, Caserta and Salerno (see [Figure 1-1](#) and [Figure 1-2](#)). The region has a population of approximately 5.8 million people, making it the second-most-populous region of Italy. Naples is the capital city of Campania and of the province of Naples, and it is over 2,800 years old. The population of Naples proper is approximately one million people.

Campania enjoys a typical Mediterranean climate with mild, wet winters and warm to hot, dry summers. The average low and high temperatures are 52 and 68 degrees Fahrenheit, respectively. The average annual rainfall is 37 inches.

The total area of Campania covers approximately 5,250 square miles. Fifty-one percent of the total area of Campania is hilly, 34% is mountainous and the remaining 15% is made up of plains, which are found to the north in the provinces of Caserta and Benevento. Historically, this region has had significant volcanic activity. Mount Vesuvius is located approximately six miles east of Naples and the Phlegraean Fields, sitting on the coast by the Gulf of Naples.

Based on topography it can be reasonably inferred that groundwater flows towards the west-southwest. In addition, multiple shallow wells have been illegally installed throughout the region to augment water pressure for household water especially in the summer when the city water pressure is low. This is a significant issue because shallow water supplies are particularly susceptible to chemical and bacteriological contamination.

1.2 Study Areas

This SRE focused on the Naples area of Campania where USN personnel work and live. Since the geographical area being investigated was very large, the region was segregated into nine geographical study areas with a focus on identifying "clusters" of residential properties located near known or suspected waste sites ([Figure 1-3](#)). In other words, the SRE focused on the Naples area of Campania where the potential for detecting chemicals, based on Italian data regarding trash and chemical dump sites, was greatest. The nine study areas are listed below along with the U.S. government-related facilities that are located within the study area, and the approximate size of the study area in square miles. Combined, the study areas comprise approximately 395 square miles:

- Study Area 1 – Joint Forces Command (JFC) North Atlantic Treaty Organization (NATO) Site (approximately 30 square miles)
- Study Area 2 – U.S. Consulate (approximately 15 square miles)
- Study Area 3 – Capodichino (approximately 95 square miles)
- Study Area 4 – Carney Park (approximately 30 square miles) (Carney Park is located within Study Area 1 but was used to evaluate Study Area 4)
- Study Area 5 – Lago Patria Receiver Site/Parco Artemide (approximately 80 square miles)
- Study Area 6 – Gricignano Support Site (approximately 45 square miles)

- Study Area 7 – Parco Eva (USN-Leased Parco) (approximately 20 square miles)
- Study Area 8 – Villa (Home leased by the USN for the PHE) (approximately 30 square miles)
- Study Area 9 – Parco Le Ginestre (USN-Leased Parco) (approximately 50 square miles)

1.3 Overview of the Screening Risk Evaluation Process

Risk assessment is an established scientific approach to evaluate the potential for impacts to human health and the environment associated with exposure to chemicals in contaminated media (e.g., soil, water, air). Risk assessment is a management decision tool, and does not provide absolute statements about health and environmental impacts, and typically focuses on chemicals and exposure pathways directly related to a site. These assessments do not address risks from other sources of exposure (e.g., dietary exposures), or risks from other chemicals that are not associated with the site under evaluation. Risk managers use the results of risk assessments to assist in determining if a site, or a portion thereof, requires further investigation or action (e.g., mitigation, remediation, et cetera). In an SRE, risk-based screening levels are developed for chemicals by considering land use, exposed populations, exposure pathways, and toxicity information based on prescribed noncancer and cancer risk goals. SREs are typically comprised of the following three tasks:

1. **Data Evaluation, Reduction, and Screening.** This task identifies chemicals from analytical data obtained from the field-sampling program. Chemicals detected in at least one sample during the field investigation are identified for further evaluation in the SRE.
2. **Conceptual Site Model and Identification of Risk-Based Screening Levels.** This task identifies a chemical concentration (i.e., screening level) that is protective of human health. Noncarcinogenic chemical concentrations are established at levels that do not cause illness in humans. Carcinogenic chemical concentrations are established at levels that do not cause exceedances of the allowable level of excess cancer risk (i.e., indicated by an exceedance factor greater than one) (established following USEPA and USN Risk Assessment Guidance) in humans.
3. **Risk Evaluation: Comparison of Site Media Concentrations to Risk-Based Screening Levels.** This task compares the site media concentrations identified and summarized in Task 1 with the risk-based screening levels identified in Task 2. Consistent with USEPA risk assessment guidance, the results of an SRE may be expressed as exceedances of the risk-based screening levels.

1.4 Report Organization

This report is organized as follows:

- [Section 2.0 – Data Evaluation, Reduction, and Screening](#)
- [Section 3.0 – Conceptual Site Model and Identification of Risk-Based Screening Levels](#)
- [Section 4.0 – Risk Evaluation: Comparison of Site Media Concentrations to Risk-Based Screening Levels](#)
- [Section 5.0 – Conclusions/Recommendations](#)

Tables and figures are presented in separate sections following the text and prior to the appendices. Chapters in this report are supplemented by appendices that provide supporting documentation of items discussed in the text.

1.5 References

USEPA. 1989. Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A. Interim Final. Office of Emergency and Remedial Response. Washington, D.C. 9285.701A. USEPA/540/1-89/002.

[Tetra Tech. 2009. Phase I Environmental Testing Support Assessment Report: Volume 1. Naval Support Activity Naples. Naples, Italy. Tetra Tech NUS. March 2009.](#)

Tetra Tech. 2008a. Environmental Testing Support Assessment Work Plan. Naval Support Activity Naples. Naples, Italy. Tetra Tech NUS. June 2008.

Tetra Tech. 2008b. Environmental Testing Support Assessment Field Sampling Plan. Naval Support Activity Naples. Naples, Italy. Tetra Tech NUS. June 2008.

Tetra Tech. 2008c. Quality Assurance Project Plan, Environmental Testing Support Assessment for the Naples Public Health Evaluation; Prepared for the Department of the Navy, Atlantic Division, Tetra Tech, Inc. September 2008.

SECTION 2 – DATA EVALUATION, REDUCTION, AND SCREENING

This section identifies chemicals detected in surface soil, indoor air (via shallow soil gas), tap water, and ambient air that were further evaluated in the SRE.

2.1 Sources of Data

The objective of the environmental sampling performed in Phase I was to measure the concentrations of chemicals in surface soil, indoor air (via shallow soil gas), tap water, and ambient air which may be attributable to (1) the random burning of trash and/or (2) dumping of chemical waste. Consequently, a comprehensive, multi-media sampling program was instituted in May 2008 to provide an initial indication of the nature and extent of contamination in surface soil, shallow soil gas, tap water, and ambient air in the nine selected study areas within Campania.

A biased sampling design was implemented in order to sample areas within the Naples area of Campania where USN personnel work and live with the highest potential of being impacted by burning of trash or dumping of chemical waste. To achieve this, Italian data regarding trash and chemical dump sites were reviewed in order to collect samples from these "worst-case" areas (see [Figure 2-1](#)). Detailed information regarding the sampling objectives, sampling methodologies, analytical methods, quality assurance/quality control procedures, are documented in the:

- ETSA Work Plan (Tetra Tech, 2008a);
- ETSA Field Sampling Plan (Tetra Tech, 2008b); and
- QAPP (Tetra Tech, 2008c).

The analytical data for all media are presented in the [Phase I ETSA Report: Volume 1 \(Tetra Tech, 2009\)](#). In general samples were analyzed for:

- Dioxins/Furans
- Semi-Volatile Organic Compounds (SVOCs)
- Volatile Organic Compounds (VOCs)
- Pesticides and Polychlorinated Bi-phenyls (PCBs)
- Inorganics
- Bacteriological Parameters (tap water samples only)
- Radiological Parameters (tap water samples only)
- Aldehydes and Ketones (air samples only)
- Nitrates (tap water samples only)
- Particulate Matter less than 10 microns in diameter (PM₁₀), PM₁₀ metals, carbon monoxide (CO), mercury vapor, oxides of nitrogen (NO_x), ozone, sulfur dioxide (air samples only)

Environmental samples, including composite surface soil (zero to six inches below ground surface [bgs]) (for all analyses except VOCs), discrete surface soil samples (for VOCs only), shallow soil gas, and tap water samples, were collected from 130 residences located throughout the study areas (see [Table 2-1](#) and

Figure 2-1). These samples are considered representative of potential exposures to chemicals at those residences. It should be noted that not all media were sampled at every residence (e.g., the residence did not have a yard, or may have been inaccessible, etc.). As the distance from the sampled residence increases, the representativeness of these sampling results to other residences decreases. Consequently, surface soil, shallow soil gas, and tap water samples were collected from multiple residences in each of the study areas (Tetra Tech, 2008a & Tetra Tech, 2008c).

Soil sampling was conducted to assess potential exposures to chemicals through incidental ingestion and dermal contact with soil. The presence of chemicals in soil may be attributable to the deposition of chemicals from the open burning of trash or dumping activities and natural background. Tap water sampling was conducted to assess potential exposures to chemicals through drinking and showering. Chemicals can migrate from soil into groundwater wells or other drinking water reservoirs. Soil gas sampling was conducted to assess whether chemicals in groundwater or soil could potentially volatilize through cracks in house foundations and become available for inhalation in indoor air. Air sampling was conducted to assess potential exposures to chemicals related to the inhalation of ambient air.

Under typical conditions, there is significant movement and mixing of ambient air over large areas. Consequently, concentrations of chemicals in ambient air are more regional in nature than soil, soil gas, and tap water. This means that the ambient air results from a sampling station can reasonably be assumed to apply to multiple locations in the vicinity of the air sampling station. In other words, it is not necessary to sample every residence/location within an area to identify representative chemical concentrations in air. Therefore, a regional ambient air monitoring program was implemented in order to determine representative chemical concentrations. Since the frequency and content of the trash being burned were random it was important to be able to collect multiple samples on multiple days in order to maximize the probability that burn events would occur during the collection of some of the samples. Five air samples were collected on a varied schedule over a 30-day period (i.e., July 7, 2008 – August 8, 2008) from the following U.S. Government-related facilities in each of the study areas (Tetra Tech, 2008a & Tetra Tech, 2008c):

- Study Area 1 – NATO Site
- Study Area 2 – U.S. Consulate
- Study Area 3 – Capodichino
- Study Area 4 – Carney Park (This facility is located within Study Area 1 but was used to evaluate air for Study Area 4)
- Study Area 5 – Lago Patria Receiver Site
- Study Area 6 – Gricignano Support Site
- Study Area 7 – Parco Eva (USN – Leased Parco)
- Study Area 8 – Villa (Home leased by the USN for the PHE)
- Study Area 9 – Parco Le Ginestre (USN – Leased Parco)

Figure 2-1 presents the U.S. Government-related facilities and Table 2-2 presents the number of samples collected by media per study area.

2.2 Data Analysis and Reduction

The analytical data for surface soil, shallow soil gas, tap water, and ambient air were analyzed using SiteSTAT™ Statistical Software, and a preliminary list of chemicals was identified for each medium based on whether or not the chemical was detected in at least one sample for a given location.

Analytical data were converted to useable formats for the SRE as follows:

- Data were only evaluated for chemicals that were detected in at least one sample at a specific location. Analytical results that were qualified “R” (i.e., rejected) were eliminated from the dataset because the data did not meet quality-control criteria.
- The total dioxin/furans (2,3,7,8-tetrachlorodibenzo-p-dioxin [2,3,7,8-TCDD]) toxic equivalent (TEQ) concentration was calculated for each sample based on the analytical results of the isomers and congeners of dioxins and furans. This calculation was performed by multiplying the concentration of the isomers/congeners by their corresponding 2005 World Health Organization (WHO) 2,3,7,8-TCDD toxicity equivalency factors (TEFs) and then summing the results (Van den Berg, 2006). Nondetected results for individual congeners were not included in the 2,3,7,8-TCDD TEQ calculations. The 2,3,7,8-TCDD TEFs are presented in [Table 2-3](#).
- The total benzo(a)pyrene (BaP) equivalent concentration (total carcinogenic polycyclic aromatic hydrocarbons (PAHs) (BaP TEQs)) was calculated for each sample based on the analytical results of all carcinogenic PAHs. This calculation was performed by multiplying the concentration of the PAH by its corresponding benzo(a)pyrene TEF and then summing the results (USEPA, 1989a). Nondetected results for individual carcinogenic PAHs were not included in the BaP TEQ calculations. The benzo(a)pyrene TEFs are presented in [Table 2-4](#).

Analytical data summary statistics for each media and chemical for study areas, U.S. Government-leased properties, and U.S. Government-based properties are presented in Appendices B, C, and D, respectively. These appendices present statistics including number of samples, frequency of detection, minimum and maximum detections, and a comparison of maximum-detected concentrations to standards.

2.3 Exposure Point Concentrations

An exposure point concentration is the concentration of a chemical in surface soil, indoor air (via shallow soil gas), tap water, and ambient air at the location of potential contact with the receptor (i.e., individual). The objective of this SRE is to evaluate the potential risks to the reasonable maximum exposed (RME) individual. The RME individual is the “highest exposure that is reasonably expected to occur at the site” (USEPA, 1989b). Since only one sample was typically collected for surface soil, shallow soil gas, and tap water at each residence, no statistical analyses could be performed on these data. Therefore, detected concentrations were used as the RME exposure point concentrations for calculating the risks. Nondetected results were not included in the risk calculations. In addition, since only five ambient air samples were collected from each of the nine monitoring stations (i.e., a total of 45 samples were collected) over a 30-day period for the Phase I SRE, the maximum-detected concentration was used as the RME exposure point concentration in this evaluation.

Prior to performing the statistical analysis on the ambient air data, the data were pre-processed as described below:

- Field duplicate results were averaged based on the following decision rules:
 - If both results were detected, then the average concentration was calculated
 - If one result was detected and the other result was not detected, then the detected result was used as the concentration for the sample.
 - If both results were not detected, then the lower of the detection limits was used as the quantitation limit for the sample.
- In instances where results were reported by the laboratory for the same chemical via different analytical methods, only one result was retained in the analytical database based on the following decision rules:
 - If both results were detected, then the higher of the two results was used as the concentration for the sample.
 - If one result was detected and the other result was not detected, then the detected result was used as the concentration for the sample.
 - If both results were not detected, then the lower of the detection limits was used as the quantitation limit for the sample.

2.4 References

SiteSTAT™ 1.0 Statistical Software. PIONEER Technologies Corporation, Olympia, WA. Copyright 1995 – 2008.

[Tetra Tech. 2009. Phase I Environmental Testing Support Assessment Report: Volume 1. Naval Support Activity Naples. Naples, Italy. Tetra Tech NUS. March 2009.](#)

Tetra Tech. 2008a. Environmental Testing Support Assessment Work Plan. Naval Support Activity Naples. Naples, Italy. Tetra Tech NUS. June 2008.

Tetra Tech. 2008b. Environmental Testing Support Assessment Field Sampling Plan. Naval Support Activity Naples. Naples, Italy. Tetra Tech NUS. June 2008.

Tetra Tech. 2008c. Quality Assurance Project Plan, Environmental Testing Support Assessment for the Naples Public Health Evaluation; Prepared for the Department of the Navy, Atlantic Division, Tetra Tech, Inc. September 2008.

- USEPA. 1989a. Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons. U.S. Environmental Protection Agency, Office of Research and Development, Office of Health and Environmental Assessment, Washington, DC, EPA/600/R-93/089 (NTIS PB94116571).
- USEPA. 1989b. Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A. Interim Final. Office of Emergency and Remedial Response. Washington, D.C. 9285.701A. USEPA/540/1-89/002.
- Van den Berg, M., et al. 2006. The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. *Toxicological Sciences* 93(2), 223–241 (2006).

SECTION 3 – CONCEPTUAL SITE MODEL AND IDENTIFICATION OF RISK-BASED SCREENING LEVELS

This section presents the conceptual site model (CSM) for the study areas and identifies risk-based screening levels that were used to calculate risks for receptors (e.g., workers and residents) identified in the CSM.

3.1 Conceptual Site Model

A CSM provides an understanding of the potential for exposure, under current and future land uses, to chemicals within a study area based on the source(s) of contamination, the release mechanism(s), the exposure pathway(s), and the receptor(s). A CSM for the site is presented on Figure 3-1 and discussed below.

The sources and release/transport mechanisms of contamination to be evaluated in the SRE are as follows:

- Source of contamination – trash dumped and burned throughout the Campania region
 - Release/transport mechanisms:
 - Vapors and particulates released to the air via burning trash are then transported via wind
 - Particulates in the air are deposited onto soil and surface water
 - Chemicals deposited on soil may leach from soil into underlying groundwater
- Source of contamination – legal and illegal dumping of waste (including chemical waste) throughout the Campania region
 - Release/transport mechanisms:
 - Chemicals deposited on soil may leach from soil into underlying groundwater.
 - Volatile chemicals may volatilize from soil and/or groundwater into ambient air or the indoor air of buildings
 - Particle-bound chemicals in soil may be transported into the air via erosion due to wind
- Source of contamination – point (e.g., exhaust from power plants and factories) and non-point (e.g., automobile exhaust) combustion sources in the Campania region
 - Release/transport mechanisms:
 - Vapors and particulates released into the air are then transported via wind
 - Particulates in the air are deposited onto soil and surface water
 - Chemicals deposited on soil may leach from soil into underlying groundwater

The complete exposure pathways evaluated in the SRE included the following:

- Inhalation of vapors and particulates in ambient air emitted from combustion sources (e.g., burning of trash, exhaust from power plants and factories, and automobile exhaust)
- Incidental soil ingestion
- Dermal contact with soil

- Inhalation of vapors and particulates in air emitted from soil
- Ingestion of tap water, which may be provided by the city and/or by a well on the property
- Inhalation of vapors in indoor air associated with household uses of tap water (e.g., showering & washing dishes)
- Inhalation of vapors in indoor air associated with vapor intrusion from groundwater and/or soil

Because this is an SRE, the following potentially-complete exposure pathway was not included in the Phase I evaluation:

- Dermal contact with tap water, which may be provided by the city and/or by a well on the property

The following potentially-exposed populations living and/or working in the study areas were evaluated for this report:

- USN personnel
- U.S. Civil Service personnel and their families
- Department of Defense (DoD) and DoD Dependant Schools (DoDDS) personnel and their families
- U.S. State Department personnel and their families

The following potentially-exposed populations living and/or working in the study areas were not evaluated for this report:

- Other private U.S. citizens and their families
- Italian citizens
- Other, non-Italian, foreign nationals

3.2 Identification of Risk-Based Screening Levels

Risks were computed for this SRE by comparing exposure point concentrations for soil, tap water and ambient air with standard July 2008 USEPA 30-Year Residential Regional Screening Levels (RSLs) (see [Tables 3-1](#), [3-2](#), and [3-3](#) respectively). RSLs are derived from equations combining exposure assumptions with chemical-specific toxicity values which result in chemical concentrations (i.e., screening levels) based on carcinogenic or systemic toxicity values under specific exposure conditions.

The 30-Year Residential RSLs were calculated using default exposure parameters and factors that represent RME conditions for long-term/chronic exposures and are based on the methods outlined in the USEPA's Risk Assessment Guidance for Superfund, Part B Manual (USEPA, 1991) and Soil Screening Guidance documents (USEPA, 1996 and USEPA, 2002). Even though standard RSLs are provided for outdoor worker soil, worker indoor air, and tap water – only the 30-year residential RSLs were used in this SRE. The equations, input parameters, and RSLs are documented in [Appendix A](#).

For lead, risk-based screening levels for soil, tap water, and air were developed using the USEPA's Integrated Exposure Uptake Biokinetic (IEUBK) Model (2007) Version 1, Build 264 (<http://epa.gov/superfund/lead/products.htm#ieubk>).

The following additional screening levels were also included in this evaluation:

- For air, the U.S. National Ambient Air Quality Standards (NAAQS) were also included as a screening level (40 CFR part 50) (<http://www.epa.gov/air/criteria.html>)
- For tap water, the U.S. Maximum Contaminant Levels (USMCLs) were also included as a screening level (40 CFR Part 141) (<http://www.epa.gov/safewater/contaminants/index.html>)

3.3 References

USEPA. 1991. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part B, Development of Risk-Based Preliminary Remediation Goals). Office of Emergency and Remedial Response. USEPA/540/R-92/003. December 1991.

USEPA. 1996. Soil Screening Guidance: Technical Background Document. Office of Emergency and Remedial Response. Washington, DC. OSWER No. 9355.4-17A
<http://www.epa.gov/superfund/health/conmedia/soil/introtbd.htm>.

USEPA. 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. December 2002.
<http://www.epa.gov/superfund/health/conmedia/soil/index.htm>.

SECTION 4 – RISK EVALUATION: COMPARISON OF MEDIA CONCENTRATIONS TO RISK-BASED SCREENING LEVELS

This section presents the results of the risk calculations. In most Superfund risk assessments, risks are calculated by integrating the results of the exposure assessment and toxicity assessment into a quantitative estimate of noncarcinogenic hazard indices and carcinogenic risks. Since this SRE is using RSLs, the risks were determined by calculating exceedance factors (EFs), which are the ratio of the chemical exposure point concentration to its RSL. Concentrations of chemicals in soil, soil gas, and tap water that exceeded RSLs (i.e., chemicals with EFs greater than one) may be of concern to human health. EFs were calculated separately for carcinogenic chemicals and noncarcinogenic chemicals. Individual chemical EFs were summed to calculate the cumulative EFs for each medium. Cumulative EFs for each medium were summed to calculate the total cumulative EF for a sample location. The methodology for calculating EFs is described in detail in [Section 4.1](#).

As described in Section 3, risks were calculated by evaluating all of the ways a receptor might be exposed to chemicals in the environment. For this SRE, the approach for evaluating risks associated with exposure to chemicals in tap water was more complicated than other, more typical sites. At a typical site, the risks from tap water would be calculated by evaluating exposure to chemicals via:

- Ingestion of Tap Water (drinking, making ice, brushing teeth)
- Inhalation of Vapors in Indoor Air Associated with Household Uses of Tap Water (e.g., showering, washing dishes, washing clothes, et cetera).
- Dermal Contact with Tap Water While Bathing
- Dermal contact with Tap Water while bathing is not being evaluated in this SRE because this exposure pathway is not included in the development of the RSLs.

In Naples, USN leadership implemented a Bottled Water Advisory in 2008 due to wide-spread, low concentrations of volatile organic chemicals and microorganisms that were detected in tap water, and is requiring landlords to provide potable water from USN-approved sources. This action eliminates the exposure to chemicals in tap water via ingestion of tap water. However, there is no guarantee that the Bottled Water Advisory will be followed by every person and therefore, this action does not eliminate risks for those who are not drinking bottled water or risks related to the inhalation pathway (e.g., exposure to chemicals in the tap water from showering). Therefore, the risks in this SRE for all media were calculated two different ways:

1. **The Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – Risks were calculated based on exposure to chemicals in soil, soil gas, and tap water assuming that tap water was used for drinking, cooking, brushing teeth, and making ice. This scenario assumed that residents were not using bottled water, and were exposed to chemicals in their tap water through ingestion and inhalation exposure pathways.
2. **The Soil, Soil Gas, and Tap Water (Tap Water via Inhalation-Only) Exposure Scenario** – Risks were calculated based on exposure to chemicals in soil, soil gas, and tap water assuming

that tap water was not used for drinking, cooking, brushing teeth, and making ice. This scenario assumed that residents were using bottled water and were not exposed to chemicals in tap water through ingestion.

4.1 Methodology for Calculating Risks

Analytical data from soil, soil gas, tap water, and ambient air samples were compared to RSLs, and chemical-specific EFs were calculated using the following equations:

$$EF = \frac{C_{Soil}}{ScreeningCriterion} \quad EF = \frac{(C_{SoilGas} \times \alpha)}{ScreeningCriterion} \quad EF = \frac{C_{TapWater}}{ScreeningCriterion} \quad EF = \frac{Conc_{AmbientAir}}{ScreeningCriterion}$$

where:

Parameter	Description
SOIL	
C _{Soil}	Concentration in surface soil sample
Screening Criterion	USEPA Residential-Based RSLs for soil, calculated based on a carcinogenic risk of 1E-06 and/or a Hazard Quotient (HQ) of 1 – assuming a 30-year exposure duration
SOIL GAS	
C _{SoilGas}	Concentration in the soil gas sample
α	Default USEPA attenuation factors were used to predict indoor air concentrations based on soil gas concentrations. For soil gas samples collected from less than or equal to five feet below the foundation level, an attenuation factor of 0.1 was used in the calculations.
Screening Criterion	USEPA Residential-Based RSLs for air, calculated based on a carcinogenic risk of 1E-06 and/or a Hazard Quotient (HQ) of 1 – assuming a 30-year exposure duration
TAP WATER	
C _{TapWater}	Concentration in the tap water sample.
Screening Criterion	<ul style="list-style-type: none"> USEPA Residential-Based RSLs for tap water, calculated based on a carcinogenic risk of 1E-06 and/or a HQ of 1 – assuming a 30-year exposure duration USMCLs
AMBIENT AIR	
Conc _{AmbientAir}	Exposure point concentration calculated based on the ambient air samples collected at each sampling location. Since only five samples were collected from each of the nine monitoring stations during a 30-day period for the Phase I SRE, the maximum-detected concentration was used as the exposure point concentration in this evaluation.
Screening Criterion	<ul style="list-style-type: none"> USEPA Residential-Based RSLs for air, calculated based on a carcinogenic risk of 1E-06 and/or a HQ of 1 – assuming a 30-year exposure duration NAAQS A comparison of ambient air data from Naples to data from major U.S. cities was performed in order to provide context for evaluating the results

Cumulative cancer exceedance factors (CCEFs) and cumulative noncancer exceedance factors (CNCEFs) for each sample were calculated by summing the individual cancer EFs (CEFs) and noncancer EFs (NCEFs) for chemicals based on RSLs. A CEF and NCEF of 10 indicate that exposure to soil, soil gas, or

² Soil gas results are not directly comparable to USEPA RSLs for air. They must be multiplied by an attenuation factor, which results in a predicted indoor air concentration that can be compared directly to USEPA RSLs.

tap water could potentially result in a cumulative cancer risk of 1E-05 and a Hazard Index (HI) of 10, respectively.

Three separate cumulative risk calculations were performed for the SRE (see below), however, only the results of the incremental risk calculations are presented and discussed in this SRE:

- Total Risk – The risk for all chemicals (background and incremental)
- Background Risk – The risk for chemicals that are naturally occurring in the environment (i.e., inorganic elements)
 - For soil, Naples-specific background chemical concentrations for inorganics were identified in Background and Baseline Concentration Values of Elements Harmful to Human Health in the Volcanic Soils of the Metropolitan and Provincial Areas of Napoli (Italy) (Cicchella et al, 2005). [Table 4-1](#) summarizes the background soil chemical concentrations from Naples, Italy. [Figure 4-1](#) presents a summary of a comparison of concentrations of arsenic in soil to RSLs throughout the nine study areas. As is evident from this figure, elevated concentrations of arsenic are present at all of the sample locations throughout the Naples area of the Campania region. Since the concentrations of arsenic are naturally occurring and are likely associated with volcanic activity in the region, inorganic chemicals with concentrations that were less than or equal to their corresponding background concentration were included in the background and total risk calculations, but were not included in the incremental risk calculations presented in this report.
 - For soil gas, no suitable background concentrations could be located in the scientific literature. Therefore, there are no background risks for soil gas.
 - For tap water, no suitable background concentrations could be located in the scientific literature. However, an analysis of the arsenic in tap water samples was performed in December 2008 (Tetra Tech, 2008a). This analysis indicated that arsenic was detected in all tap water samples at concentrations exceeding the RSLs. In addition, there does not appear to be a significant difference in arsenic concentrations between public tap water supplies and private well water supplies. This information, coupled with the regional geology (i.e., volcanic soils and high concentrations of arsenic in soil), indicate that arsenic in tap water is representative of natural background. [Figure 4-2](#) presents a summary of a comparison of concentrations of arsenic in tap water to RSLs and USMCLs throughout the nine study areas. As is evident from this figure, elevated concentrations of arsenic are present throughout the Naples area of the Campania region and the distribution is consistent with background. Therefore, arsenic in tap water was included in the background risk calculations.
 - For ambient air, no suitable background concentrations could be located in the scientific literature. Therefore, the maximum-detected values in six U.S. cities (i.e., San Diego, California, Los Angeles, California, Seattle, Washington, Houston, Texas, Midlothian, Texas, and Washington DC) from 2007 U.S. EPA Air Toxics Database (USEPA, 2007) were used as background concentrations.
- Incremental Risk – Incremental risks were calculated by subtracting the background risks (i.e., risks for chemicals that are naturally occurring in the environment) from the total risks.

Incremental risks are risks that could be related to trash burning, trash dumping, or other point and non-point sources (for more detail, see Section 3.1). Only the results of the incremental risk calculations are presented and discussed in this SRE. In addition, the risk-management recommendations presented in this SRE (i.e., Acceptable or Unacceptable) were made based on the incremental risk.

Trihalomethanes (THMs – which include bromodichloromethane, chloroform, bromoform, and dichlorobromomethane) are chemicals that are byproducts of disinfecting a water supply and are typically detected in municipal water supplies. USN policy for this project is to evaluate the risks associated with exposure to THMs using the total THM (TTHM) USMCL rather than individual RSLs. When the tap water concentration of an individual THM exceeded the RSL but was less than the TTHM USMCL, the risks were considered acceptable.

Because the PHE is being completed in stages, the risks for radionuclides in tap water were not computed as part of the Phase I SRE. The development and use of drinking water standards for tap water has been an evolutionary process during the different stages (Pilot, Phase I, and Phase II). During the Pilot and Phase I study, tap water samples were only evaluated for gross alpha and gross beta levels. Gross alpha and gross beta results provide the total risk for these radiological decay groups. Speciation (i.e., the process of identifying the specific radionuclides responsible for the gross alpha and gross beta levels) was not conducted on the Phase I samples, therefore incremental and background risks were not determined. During the Phase II Study, the analytical parameters have been expanded to include radiological speciation (if results exceed established screening values), and the total risks, background risks, and incremental risks will be included in the Phase II Report of the PHE. This is a key step because most drinking water sources contain very low levels of radionuclides – most of which are naturally occurring, although contamination of drinking water sources from man-made nuclear materials can also occur.

Unlike soil, soil gas, and individual tap water samples, multiple ambient air samples were collected from one sample location at each of the following U.S. Government-related facilities on different days: the JFC NATO Site, U.S. Consulate, Capodichino, Carney Park, Lago Patria Receiver Site, Gricignano Support Site, Parco Eva, Villa, and Parco Le Ginestre. Consequently, RME concentrations were determined separately, using the maximum-detected concentration, for each ambient air (U.S. Government-related) location based on the validated data from samples that were collected at that location.

4.2 Risks Management Categories for Evaluating Incremental Risks

This report characterizes the potential health risks associated with living at a residence for 30 years. This is generally a conservative assumption because typical tour lengths range from three to six years. The risk evaluation results (incremental risks) were placed into one of two categories:

1. Acceptable Risk – The noncancer and cancer risks at this residence are considered Acceptable based on the criteria presented below
2. Unacceptable Risks – The noncancer and cancer risks at this residence are considered Unacceptable based on the criteria presented below

Based on the results of the SRE, the appropriate course of action will be taken to ensure the safety of USN personnel.

Risk-Management Categories

Scenario	Criteria for Acceptable Incremental Risks	Criteria for Unacceptable Incremental Risks
Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario ¹	Total NCEF less than or equal to 1; and Total CEF less than or equal to 10; and Concentration less than or equal to USMCL (tap water). Applies to all chemicals.	Total NCEF greater than 1; or Total CEF greater than 10; or Concentration greater than the USMCL (tap water). Applies to all chemicals.
Soil, Soil Gas, and Tap Water (Tap Water via Inhalation-Only) Exposure Scenario ²	Total NCEF less than or equal to 1; and Total CEF less than or equal to 10; and Concentration less than or equal to USMCL (tap water). Applies only to Fecal Coliform and Total Coliforms (including Fecal Coliform and <i>Escherichia coli</i> O157:H7 [<i>E. coli</i>]).	Total NCEF greater than 1; or Total CEF greater than 10; or Concentration greater than the USMCL (tap water). Applies only to Fecal Coliform and Total Coliforms (including Fecal Coliform and <i>E. coli</i>).

Notes:
 NCEFs were calculated by dividing the maximum- detected concentrations by noncancer-based U.S. Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs).
 CEFs were calculated by dividing the maximum-detected concentrations by cancer-based USEPA RSLs.
 The individual NCEFs and CEFs were summed to provide the total CNCEF and total CCEF, respectively.
 An NCEF of 1 corresponds to a Hazard Index of 1.
 A CEF of 1 corresponds to a cancer risk of 1E-06 (one in a million). A CEF of 10 corresponds to a cancer risk of 1E-05 (one in a 100,000).
¹The tap water RSLs used to evaluate residences that DO use tap water for drinking, cooking, brushing teeth, and making ice were based on ingestion and inhalation of household uses (e.g., showering) of tap water. This evaluation also included RSLs for evaluating soil and soil gas, as appropriate.
²The tap water RSLs used to evaluate residences that DO NOT use tap water for drinking, cooking, brushing teeth, and making ice were based on inhalation of household uses (e.g., showering) of tap water only. This evaluation also included RSLs for evaluating soil and soil gas, as appropriate.

4.3 Incremental Risk Results for the 130 Residences Located on the Economy by Study Area

One hundred and thirty residences on the economy were sampled as part of the Phase I SRE. These residences are distributed throughout nine study areas as presented in [Table 4-2](#) and presented on [Figure 4-3](#). Individual letter reports (i.e., Resident Letters) were provided to each resident, which presented the analytical results for all samples that were collected at their residence, the risks, risk-management category, actions that the USN is taking based on the results, and actions that they (the resident) can take based on the results.

The incremental risks associated with the 130 residences sampled on the economy were summarized for each study area and the results are presented in the following subsections. If the risks for all residences located within a study area were acceptable, based on USN risk-management criteria for the SRE, then a media-specific and chemical-specific summary was not presented. If the risks for all residences located within a study area were not acceptable, based on USN risk-management criteria for the SRE, then a media-specific and chemical-specific summary was presented for media/chemicals that contributed significantly to the risk. For the purposes of this SRE, media/chemicals that contributed significantly to

the risks were defined as chemicals with concentrations that exceeded RSLs, USMCLs, or other screening criteria (e.g., IEUBK and NAAQs) used in this evaluation.

To minimize the number of tables and figures, the same table or figure may be referenced in multiple sections of this report or multiple subsections of Section 4.0. For example, rather than creating separate figures presenting individual chemical results in each of the nine study areas (i.e., nine separate figures), only one figure was created for presenting the chemical results for all nine study areas. This approach minimized the number of figures, but also facilitated evaluating spatial trends that were present when evaluating the data holistically.

4.3.1 Study Area 1

Samples were collected from 21 residences located throughout Study Area 1 (see [Figure 4-3](#)). Due to the proximity of two of the residences, they appear on the figures to be the same location even though they are two separate residences. Eighteen of these residences obtain their tap water from a public water system and three residences obtain their tap water from private wells. The incremental risks for these locations are summarized in [Table 4-5](#) and are discussed below:

- **Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – None of the 21 residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-4](#)).
 - The total CNCEFs were all less than one, the total CCEFs were all less than 10, and there were no exceedances of USMCLs.
- **Soil, Soil Gas, and Tap Water (Tap Water via Inhalation-Only) Exposure Scenario** – None of the 21 residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-5](#)).
 - The total CNCEFs were all less than one, the total CCEFs were all less than 10, and there were no exceedances of USMCLs.

4.3.1.1 Ambient Air

Five ambient air samples were collected from the JFC NATO Site in Study Area 1 (see [Figure 4-3](#)). These air results are considered representative of air to which residents in Study Area 1 could be exposed for the time period sampled.

As identified in [Appendix B](#), acetaldehyde, acrylonitrile, 1,2-dichloropropane, and formaldehyde had NCEFs greater than one or CEFs greater than 10. [Table 4-4](#) shows that of these chemicals, only 1,2-dichloropropane had a maximum concentration greater than the U.S. background maximum value.

4.3.2 Study Area 2

Samples were collected from eight residences located in the southeast portion of Study Area 2 (see [Figure 4-3](#)). All eight of these residences obtain their tap water from a public water system. Lead and copper were responsible for the unacceptable risk at one location. However, the unacceptable designation

was based on a CNCEF greater than one, but no single chemical exceeded its RSL. The incremental risks for these locations are summarized in [Table 4-6](#) and are discussed below:

- **Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – One of the eight residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project. The residence where the risks exceeded the risk-management criteria is located on the eastern edge of Study Area 2 (see [Table 4-3](#) and [Figure 4-4](#)).
 - The total CNCEFs ranged from 0.1 to 1.1, the total CCEFs were all less than 10, and there were no exceedances of USMCLs. Although individual THMs exceeded their RSLs, the TTHM MCL was not exceeded.
 - Tap water was responsible for the noncancer and cancer risks at eight of eight residences (see [Table 4-3](#) and [Figure 4-8](#)).
 - Residences on Public Water: Lead and copper were responsible for the majority of the CNCEF but did not exceed their individual RSLs. Chloroform ([Figure 4-14](#)), dibromochloromethane ([Figure 4-16](#)), tetrachloroethene ([Figure 4-19](#)), and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-22](#)) exceeded their RSLs.
 - Residences on Private Wells: None of the residences sampled in this study area were on private wells.
 - Soil samples were not collected because these residences are located in an urban area where soil was not available for sampling.
 - Soil gas samples were not collected because these residences either did not have a suitable location on property for a soil gas sampling or the residence was a multi-floor building located in an urban area where soil was not available for sampling and the landlord owned an apartment on an upper floor but not the ground floor.
 - The total CNCEFs were all less than one, the total CCEFs were all less than 10, and there were no exceedances of USMCLs. Although individual THMs exceeded their RSLs, the TTHM MCL was not exceeded.
- **Soil, Soil Gas, and Tap Water (Tap Water via Inhalation-Only) Exposure Scenario** – None of the eight residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-5](#)).
 - The total CNCEFs were all less than one, the total CCEFs were all less than 10, and there were no exceedances of USMCLs. Although individual THMs exceeded their RSLs, the TTHM MCL was not exceeded.

4.3.2.1 Ambient Air

Five ambient air samples were collected from the U.S. Consulate Site in Study Area 2 (see [Figure 4-3](#)). These air results are considered representative of air to which residents in Study Area 2 could be exposed for the time period sampled.

As identified in [Appendix B](#), acetaldehyde, acrolein, acrylonitrile, benzene, 1,2-dichloropropane, and formaldehyde had NCEFs greater than one or CEFs greater than 10. [Table 4-4](#) shows that of these chemicals, only benzene and 1,2-dichloropropane had maximum concentrations greater than the U.S. background maximum values.

4.3.3 Study Area 3

Samples were collected from five residences in Study Area 3. Four of the residences are located in the south-central portion of Study Area 3 (located greater than three miles apart) and one residence is located on the western border of Study Area 3 (see [Figure 4-3](#)). All five of these residences obtain their tap water from a public water system. The incremental risks for these locations are summarized in [Table 4-7](#) and are discussed below:

- **Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – None of the five residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-4](#)).
 - The total CNCEFs were all less than 1, and the total CCEFs ranged from 1.9 to 24.4. There were no exceedances of USMCLs.
 - One location, #1380, had chloroform detected in tap water at a concentration that resulted in a CEF of 20.7 (i.e., an unacceptable risk). However, USN policy for this project is to evaluate the THMs using the USMCL rather than the RSL. The tap water concentration of TTHMs is less than the USMCL, therefore the risk at this location is considered acceptable (see [Figure 4-8](#) and [Figure 4-14](#)).
 - Soil contributed significantly to the risk at one location (see [Figure 4-6](#)), however, the risks associated with exposure to chemicals in soil were acceptable (i.e., the soil NCEF was less than 1 and the soil CCEF was less than 10).
 - Total carcinogenic PAHs (BaP TEQs) ([Figure 4-10](#)) exceeded their RSLs.
 - Soil gas did not significantly contribute to the risk at any location (see [Figure 4-7](#)).
- **Soil, Soil Gas, and Tap Water (Tap Water via Inhalation-Only) Exposure Scenario** – None of the five residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-5](#)).
 - The total CNCEFs were all less than 1, and the total CCEFs ranged from 0.1 to 19.5. There were no exceedances of USMCLs.
 - One location, #1380, had chloroform detected in tap water at a concentration that resulted in a CEF of 18.7 (i.e., an unacceptable risk). However, USN policy for this project is to evaluate the THMs using the USMCL rather than RSL. The tap water concentration of THMs is less than the USMCL, therefore the risk at this location is considered acceptable (see [Figure 4-9](#) and [Figure 4-15](#)).
 - Residences on Public Water: Chloroform ([Figure 4-15](#)) exceeded its RSL.
 - Soil contributed significantly to the risk at one location (see [Figure 4-6](#)), however, the risks associated with exposure to chemicals in soil were acceptable (i.e., the soil NCEF was less than 1 and the soil CCEF was less than 10).
 - Total carcinogenic PAHs (BaP TEQs) ([Figure 4-10](#)) exceeded their RSLs.
 - Soil gas did not significantly contribute to the risk at any location (see [Figure 4-7](#)).

4.3.3.1 Ambient Air

Five ambient air samples were collected from the Capodichino Site in Study Area 3 (see [Figure 4-3](#)). These air results are considered representative of air to which residents in Study Area 3 could be exposed for the time period sampled.

As identified in [Appendix B](#), acetaldehyde, acrolein, acrylonitrile, benzene, 1,3-butadiene, dieldrin, 1,2-dichloropropane, and formaldehyde had NCEFs greater than one or CEFs greater than 10. [Table 4-4](#) shows that of these chemicals, only 1,2-dichloropropane and dieldrin had maximum concentrations greater than the U.S. background maximum values.

4.3.4 Study Area 4

Samples were collected from three residences located in the northern, central, and southern portion of Study Area 4 (see [Figure 4-3](#)). These residences are located greater than four miles apart. All three of these residences obtain their tap water from a public water system. The incremental risks for these locations are summarized in [Table 4-8](#) and are discussed below:

- **Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – None of the three residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-4](#)).
 - The total CNCEFs were all less than one, the total CCEFs were all less than 10, and there were no exceedances of USMCLs.
- **Soil, Soil Gas, and Tap Water (Tap Water via Inhalation-Only) Exposure Scenario** – None of the three residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-5](#)).
 - The total CNCEFs were all less than one, the total CCEFs were all less than 10, and there were no exceedances of USMCLs.

4.3.4.1 Ambient Air

Five ambient air samples were collected from the Carney Park Site in Study Area 4 (Carney Park is located within Study Area 1, but is used to evaluate air in Study Area 4 (see [Figure 4-3](#))). These air results are considered representative of air to which residents in Study Area 4 could be exposed for the time period sampled.

As identified in [Appendix B](#), acetaldehyde, acrolein, acrylonitrile, 1,2-dichloropropane, and formaldehyde had NCEFs greater than one or CEFs greater than 10. [Table 4-4](#) shows that of these chemicals, only 1,2-dichloropropane had a maximum concentration greater than the U.S. background maximum value.

4.3.5 Study Area 5

Samples were collected from 32 residences primarily located in the southern portion of Study Area 5 (see [Figure 4-3](#)). Twenty six of these residences obtain their tap water from a public water system and six residences obtain their tap water from private wells. Total coliforms, fecal coliform, nitrates, and tetrachloroethene in tap water were responsible for the majority of the unacceptable risks at six locations.

Total carcinogenic PAHs (BaP TEQs) in soil were responsible for the unacceptable risks at two locations; however, one of these locations also had unacceptable risks due to concentrations of total coliforms and fecal coliforms in tap water. Tetrachloroethene and chloroform in soil gas were responsible for the unacceptable risks at two locations. One location was unacceptable because the total CCEF (summed based on exposure to soil, soil gas, and tap water) was greater than 10. The incremental risks for these locations are summarized in [Table 4-9](#) and are discussed below:

- **Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – Ten of the 32 residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-4](#)).
 - The total CNCEFs ranged from 0.1 to 1.6, the total CCEFs ranged from 0.2 to 556.8³, and there were exceedances of USMCLs.
 - Tap water contributed significantly to the risk at twenty-four of the residences in this study area (see [Table 4-3](#) and [Figure 4-8](#)).
 - Residences on Public Water: Chloroform ([Figure 4-14](#)), dibromochloromethane ([Figure 4-16](#)), and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-22](#)) exceeded their RSLs. Fecal coliforms ([Figure 4-17](#)) and total coliforms ([Figure 4-21](#)) exceeded their USMCLs.
 - Residences on Private Wells: Tetrachloroethene ([Figure 4-19](#)) and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-22](#)) exceeded their RSLs. Fecal coliform ([Figure 4-17](#)), total coliforms ([Figure 4-21](#)), nitrates ([Figure 4-18](#)), and tetrachloroethene ([Figure 4-19](#)) exceeded their USMCLs.
 - Soil was responsible for the unacceptable risks at two locations and contributed significantly to the risk at four other locations (see [Figure 4-6](#)).
 - Total carcinogenic PAHs (BaP TEQs) ([Figure 4-10](#)) and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-11](#)) exceeded their RSLs.
 - Soil gas was responsible for the unacceptable risks at two locations and contributed significantly to the risk at four other locations (see [Figure 4-7](#)).
 - Chloroform ([Figure 4-12](#)), tetrachloroethene ([Figure 4-13](#)), and trichloroethene exceeded their RSLs.
 - **Soil, Soil Gas, and Tap Water (Tap Water via Inhalation-Only) Exposure Scenario** – Nine of the 32 residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-5](#)).
 - The total CNCEFs were all less than one, the total CCEFs ranged from zero to 555.6³, and there were exceedances of USMCLs.
 - Tap water contributed significantly to the risk at six of the residences in this study area (see [Table 4-3](#) and [Figures 4-9](#)).
 - Residences on Public Water: Chloroform ([Figure 4-15](#)) exceeded its RSL. Fecal coliforms ([Figure 4-17](#)) and total coliforms ([Figure 4-21](#)) exceeded their USMCLs.

³ Two locations within Study Area 5 had unusually high CEFs in soil gas due to chloroform (with a CEF of 460.6) at Site ID 1151 and tetrachloroethene (with a CEF of 552.9) at Site ID 0949.

- Residences on Private Wells: Tetrachloroethene (Figure 4-20) exceeded its RSL. Fecal coliforms (Figure 4-17) and total coliforms (Figure 4-21) exceeded their USMCLs.
- Soil was responsible for the unacceptable risks at two locations and contributed significantly to the risk at four other locations (see Figure 4-6).
 - Total carcinogenic PAHs (BaP TEQs) (Figure 4-10) and total dioxin/furans (2,3,7,8-TCDD TEQs) (Figure 4-11) exceeded their RSLs.
- Soil gas was responsible for the unacceptable risks at two locations and contributed significantly to the risk at four other locations (see Figure 4-7).
 - Chloroform (Figure 4-12), tetrachloroethene (Figure 4-13), and trichloroethene exceeded their RSLs.

4.3.5.1 Ambient Air

Five ambient air samples were collected from the Lago Patria Receiver Site in Study Area 5 (see Figure 4-3). These air results are considered representative of air to which residents in Study Area 5 could be exposed for the time period sampled.

As identified in Appendix B, acetaldehyde, acrolein, acrylonitrile, 1,2-dichloropropane and formaldehyde had NCEFs greater than one or CEFs greater than 10. Table 4-4 shows that of these chemicals, only 1,2-dichloropropane had a maximum concentration greater than the U.S. background maximum value.

4.3.6 Study Area 6

Samples were collected from 13 residences located throughout Study Area 6 (see Figure 4-3). The majority of the residences are located in the southwestern portion of the Study Area. Twelve of these residences obtain their tap water from a public water system and one residence obtains its tap water from a private well. The media or chemicals responsible for the majority of unacceptable risks within this study area did not exhibit a consistent pattern. Total coliforms, nitrate, thallium, and/or carbon tetrachloride in tap water were responsible for the majority of the unacceptable risks at three locations. None of the residences sampled had unacceptable risks due to concentrations of chemicals in soil. Tetrachloroethene in soil gas was responsible for the unacceptable risks at one location. One location was unacceptable because the total CCEF (summed based on exposure to soil, soil gas, and tap water) was greater than 10. The incremental risks for these locations are summarized in Table 4-10 and are discussed below:

- **Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – Five of the residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see Table 4-3 and Figure 4-4).
 - The total CNCEFs ranged from 0.2 to 1.9, the total CCEF⁴s ranged from zero to 880⁴, and there were exceedances of USMCLs.

⁴ Site ID 0831 located within Study Area 6 had an unusually high CEF due to tetrachloroethene (with a CEF of 874.9).

- Tap water contributed significantly to the risk at eleven locations in this study area (see [Table 4-3](#) and [Figure 4-8](#)).
 - Residences on Public Water: dibromochloromethane ([Figure 4-16](#)), tetrachloroethene ([Figure 4-19](#)), thallium, and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-22](#)) exceeded their RSLs. Nitrate ([Figure 4-18](#)), thallium, and total coliforms ([Figure 4-21](#)) exceeded their USMCLs.
 - Residences on Private Wells: Carbon tetrachloride, chloroform ([Figure 4-14](#)), tetrachloroethene ([Figure 4-19](#)), and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-22](#)), exceeded their RSLs. Nitrate ([Figure 4-18](#)) and total coliforms ([Figure 4-21](#)) exceeded their USMCLs.
- Soil contributed significantly to the risk at two locations (see [Figure 4-6](#)), however, the risks associated with exposure to chemicals in soil were acceptable (i.e., the soil NCEFs were less than 1 and the soil CCEFs were less than 10).
 - Total carcinogenic PAHs (BaP TEQs) ([Figure 4-10](#)) and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-11](#)) exceeded their RSLs.
- Soil gas was responsible for the unacceptable risks at one location and significantly contributed to the risks at one other location (see [Figure 4-7](#)).
 - Chloroform ([Figure 4-12](#)) and tetrachloroethene ([Figure 4-13](#)), and trichloroethene exceeded their RSLs.
- **Soil, Soil Gas, and Tap Water (Tap Water via Inhalation-Only) Exposure Scenario** – Three of the residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-5](#)).
 - The total CNCEFs ranged from zero to 1.3, the total CCEFs ranged from zero to 877.9⁵, and there were exceedances of USMCLs.
 - Tap water contributed significantly to the risk at two locations in this study area (see [Table 4-3](#) and [Figure 4-9](#)).
 - Residences on Public Water: Total coliforms ([Figure 4-21](#)) exceeded its USMCL.
 - Residences on Private Wells: Carbon tetrachloride and chloroform ([Figure 4-15](#)) exceeded their RSLs. Total coliforms ([Figure 4-21](#)) exceeded its USMCL.
 - Soil contributed significantly to the risk at two locations (see [Figure 4-6](#)), however, the risks associated with exposure to chemicals in soil were acceptable (i.e., the soil NCEFs were less than 1 and the soil CCEFs were less than 10).
 - Total carcinogenic PAHs (BaP TEQs) ([Figure 4-10](#)) and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-11](#)) exceeded their RSLs.
 - Soil gas was responsible for the unacceptable risks at one location and significantly contributed to the risks at one other location (see [Figure 4-7](#)).
 - Chloroform ([Figure 4-12](#)) and tetrachloroethene ([Figure 4-13](#)), and trichloroethene exceeded their RSLs.

⁵ Site ID 0831 located within Study Area 6 had an unusually high CEF in soil gas due to tetrachloroethene (with a CEF of 874.9).

4.3.6.1 Ambient Air

Five ambient air samples were collected from the Gricignano Support site in Study Area 6 (see [Figure 4-3](#)). These air results are considered representative of air to which residents in Study Area 6 could be exposed for the time period sampled.

As identified in [Appendix B](#), acetaldehyde, acrolein, acrylonitrile, 1,2-dichloropropane, formaldehyde, tetrachloroethene, and total dioxin/furans (2,3,7,8-TCDD TEQs) had NCEFs greater than one or CEFs greater than 10. [Table 4-4](#) shows that of these chemicals, only 1,2-dichloropropane and total dioxin/furans (2,3,7,8-TCDD TEQs) had maximum concentrations greater than the U.S. background maximum values.

4.3.7 Study Area 7

Samples were collected from eight residences located throughout Study Area 7 (see [Figure 4-3](#)). All of the residences are located in the central to southern portion of the study area. Six of these residences obtain their tap water from a public water system and two residences obtain their tap water from private wells. Total coliforms, nitrate, and tetrachloroethene in tap water were responsible for the majority of the unacceptable risks at four locations. None of the residences sampled had unacceptable risks due to concentrations of chemicals in soil or soil gas. The incremental risks for these locations are summarized in [Table 4-11](#) and are discussed below:

- **Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – Four of the residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-4](#)).
 - The total CNCEFs ranged from 0.3 to 2.6, the total CCEFs ranged from 0.2 to 62.1, and there were exceedances of USMCLs.
 - Tap water contributed significantly to the risk at seven locations in this study area (see [Table 4-3](#) and [Figure 4-8](#)).
 - Residences on Public Water: Dibromochloromethane ([Figure 4-16](#)) and tetrachloroethene ([Figure 4-19](#)) exceeded their RSLs. Nitrates ([Figure 4-18](#)) and total coliforms ([Figure 4-21](#)) exceeded their USMCLs.
 - Residences on Private Wells: Lead, tetrachloroethene ([Figure 4-19](#)), and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-22](#)) exceeded their RSLs. Nitrates ([Figure 4-18](#)), total coliforms ([Figure 4-21](#)), and tetrachloroethene ([Figure 4-19](#)) exceeded their USMCLs.
 - Soil contributed significantly to the risk at two locations (see [Figure 4-6](#)), however, the risks associated with exposure to chemicals in soil were acceptable (i.e., the soil NCEFs were less than 1 and the soil CCEFs were less than 10).
 - Total carcinogenic PAHs (BaP TEQs) ([Figure 4-10](#)) and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-11](#)) exceeded their RSLs.
 - Soil gas significantly contributed to the risk at one location (see [Figure 4-7](#)), however, the risks associated with exposure to chemicals in soil gas were acceptable (i.e., the soil gas NCEFs were less than 1 and the soil gas CCEFs were less than 10).

- Tetrachloroethene (Figure 4-13) exceeded its RSL.
- **Soil, Soil Gas, and Tap Water (Tap Water via Inhalation-Only) Exposure Scenario** – Three of the residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see Table 4-3 and Figure 4-5).
 - The total CNCEFs were all less than one, the total CCEFs were all less than 10, and there were exceedances of USMCLs.
 - Tap water contributed significantly to the risk at four locations in this study area (see Table 4-3 and Figure 4-9).
 - Residences on Public Water: Tetrachloroethene exceeded its RSL (Figure 4-20) and total coliforms (Figure 4-21) exceeded its USMCL.
 - Residences on Private Wells: Tetrachloroethene exceeded its RSL (Figure 4-20) and total coliforms (Figure 4-21) exceeded its USMCL.
 - Soil contributed significantly to the risk at two locations (see Figure 4-6), however, the risks associated with exposure to chemicals in soil were acceptable (i.e., the soil NCEFs were less than 1 and the soil CCEFs were less than 10).
 - Total carcinogenic PAHs (BaP TEQs) (Figure 4-10) and total dioxin/furans (2,3,7,8-TCDD TEQs) (Figure 4-11) exceeded their RSLs.
 - Soil gas significantly contributed to the risk at one location (see Figure 4-7), however, the risks associated with exposure to chemicals in soil gas were acceptable (i.e., the soil gas NCEFs were less than 1 and the soil gas CCEFs were less than 10).
 - Tetrachloroethene (Figure 4-13) exceeded its RSL.

4.3.7.1 Ambient Air

Five ambient air samples were collected from the Parco Eva site in Study Area 7 (see Figure 4-3). These air results are considered representative of air to which residents in Study Area 7 could be exposed for the time period sampled.

As identified in Appendix B, acetaldehyde, acrolein, acrylonitrile, 1,2-dichloropropane, dieldrin, formaldehyde, total carcinogenic PAHs (BaP TEQ) and total dioxin/furans (2,3,7,8-TCDD TEQs) had NCEFs greater than one or CEFs greater than 10. Table 4-4 shows that of these chemicals, only 1,2-dichloropropane, dieldrin, and total dioxin/furans (2,3,7,8-TCDD TEQs) had maximum concentrations greater than the U.S. background maximum values.

4.3.8 Study Area 8

Samples were collected from 38 residences located throughout Study Area 8 (see Figure 4-3). All of the residences except one are located in the southern portion of the study area. Fourteen of these residences obtain their tap water from a public water system and 24 residences obtain their tap water from private wells. Total coliforms, fecal coliform, nitrates, and tetrachloroethene in tap water were responsible for the majority of the unacceptable risks at 28 locations. None of the residences sampled had unacceptable risks due to concentrations of chemicals in soil. Tetrachloroethene in soil gas was responsible for the unacceptable risks at one location; however, this location also had unacceptable risks due to

concentrations of total coliforms and fecal coliform in tap water. The incremental risks for these locations are summarized in [Table 4-12](#) and are discussed below:

- **Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – Twenty-eight of the 38 residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-4](#)).
 - The total CNCEFs ranged from 0.2 to 5.1, the total CCEFs ranged from zero to 461.4⁶, and there were exceedances of USMCLs.
 - Tap water contributed significantly to the risk at thirty-six locations in this study area (see [Table 4-3](#) and [Figure 4-8](#)).
 - Residences on Public Water: Copper, dibromochloromethane ([Figure 4-16](#)), lead, tetrachloroethene ([Figure 4-19](#)), and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-22](#)) exceeded their RSLs. Fecal coliform ([Figure 4-17](#)), total coliforms ([Figure 4-21](#)), and nitrates ([Figure 4-18](#)) exceeded their USMCLs.
 - Residences on Private Wells: Chloroform ([Figure 4-14](#)), copper, tetrachloroethene ([Figure 4-19](#)), and total dioxin/furans (2,3,7,8-TCDD TEQs) ([Figure 4-22](#)) exceeded their RSLs. Fecal coliform ([Figure 4-17](#)), total coliforms ([Figure 4-21](#)), nitrates ([Figure 4-18](#)), and tetrachloroethene ([Figure 4-19](#)) exceeded their USMCLs.
 - Soil did not significantly contribute to the risks in this study area ([Figure 4-6](#)).
 - Soil gas was responsible for the unacceptable risks at one location and contributed significantly to the risks at three other locations ([Figure 4-7](#)).
 - Chloroform ([Figure 4-12](#)) and tetrachloroethene ([Figure 4-13](#)) exceeded their RSLs.
- **Soil, Soil Gas, and Tap Water (Tap Water via Inhalation Only) Exposure Scenario** – Twenty-six residences sampled had risks that are considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-5](#)).
 - The total CNCEFs were all less than one, the total CCEFs ranged from zero to 66.6, and there were exceedances of USMCLs.
 - Tap water contributed significantly to the risk at 26 locations in this study area (see [Table 4-3](#) and [Figure 4-9](#)).
 - Residences on Public Water: Tetrachloroethene ([Figure 4-20](#)) exceeded its RSL. Fecal coliform ([Figure 4-17](#)) and total coliforms ([Figure 4-21](#)) exceeded their USMCLs.
 - Residences on Private Wells: Chloroform ([Figure 4-15](#)) and tetrachloroethene ([Figure 4-20](#)) exceeded their RSLs. Fecal coliforms ([Figure 4-17](#)) and total coliforms ([Figure 4-21](#)) exceeded their USMCLs.
 - Soil did not significantly contribute to the risk in this study area ([Figure 4-6](#)).
 - Soil gas was responsible for the unacceptable risks at one location and contributed significantly to the risks at three other locations ([Figure 4-7](#)).
 - Chloroform ([Figure 4-12](#)) and tetrachloroethene ([Figure 4-13](#)) exceeded their RSLs.

⁶ Site ID 0309 located within Study Area 9 had an unusually high CEF due to tetrachloroethene (with a CEF of 417.5). Site IDs 0333 and 0395 had high CEFs as well due to tetrachloroethene with CEFs of 249.8 and 284.2, respectively.

4.3.8.1 Ambient Air

Five ambient air samples were collected from the Villa in Study Area 8 (see [Figure 4-3](#)). These air results are considered representative of air to which residents in Study Area 8 could be exposed for the time period sampled.

As identified in [Appendix B](#), acetaldehyde, acrolein, acrylonitrile, benzene, 1,2-dichloropropane, and formaldehyde had NCEFs greater than one or CEFs greater than 10. [Table 4-4](#) shows that of these chemicals, only 1,2-dichloropropane had a maximum concentration greater than the U.S. background maximum value.

4.3.9 Study Area 9

Samples were collected from two residences located in Study Area 9 (see [Figure 4-3](#)). Both of these residences obtain their tap water from a public water system. The incremental risks for these locations are summarized in [Table 4-13](#) and are discussed below:

- **Soil, Soil Gas, and Tap Water (Tap Water via Ingestion+Inhalation) Exposure Scenario** – None of the residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-4](#)).
 - The total CNCEFs were all less than one, the total CCEFs were all less than 10, and there were no exceedances of USMCLs.
- **Soil, Soil Gas, and Tap Water (Tap Water via Inhalation Only) Exposure Scenario** – None of the residences sampled had risks that were considered unacceptable based on the risk-management criteria established for this project (see [Table 4-3](#) and [Figure 4-5](#)).
 - The total CNCEFs were all less than one, the total CCEFs were all less than 10, and there were no exceedances of USMCLs.

4.3.9.1 Ambient Air

Five ambient air samples were collected from Parco Le Ginestre in Study Area 9 (see [Figure 4-3](#)). These air results are considered representative of air to which residents in Study Area 9 could be exposed for the time period sampled.

As identified in [Appendix B](#), acetaldehyde, acrolein, acrylonitrile, chloromethane, 1,2-dichloropropane, formaldehyde and tetrachloroethene had NCEFs greater than one or CEFs greater than 10. [Table 4-4](#) shows that of these chemicals, only chloromethane and 1,2-dichloropropane had maximum concentrations greater than the U.S. background maximum values.

4.4 Risk Results for U.S. Government-Related Sites

4.4.1 Introduction

In order to calculate risks, risk assessors typically delineate an exposure unit, which is a geographic area that is assumed to be where exposure is likely to occur. For example, in the economy residences the exposure unit is the residence and surrounding yard. Soil, soil gas, and tap water samples are all collected

from within this exposure unit. Therefore, a cumulative risk can be calculated that reasonably reflects the risks to people within that exposure unit.

However, at the U.S. Government-related sites it is difficult to delineate reasonable exposure units because environmental samples were collected from multiple, disparate locations which were spatially distributed throughout the sites. In addition, soil, soil gas, and tap water samples were not always co-located. This type of sampling approach is typically used in the first phase of a screening evaluation (such as this) in order to provide a general indication of the levels of contamination that may be present. As such, these types of sampling results are typically not used to calculate cumulative risks across media because it is unlikely that the same person would be exposed to media that are not co-located (i.e., we cannot delineate reasonable exposure units). Therefore, instead of calculating cumulative risks at each location across all media, the analytical data were compared to RSLs in order to provide an indication of the media and chemicals that exceed risk-based screening levels, and therefore, may require additional investigation in the future.

4.4.2 *Parco Artemide*

Ten soil samples, 10 soil gas samples, and 10 tap water samples (the number of samples might be higher for some chemicals due to resampling) were collected at Parco Artemide (see [Figure 4-23](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix C-1](#) (soil), [Appendix C-2](#) (soil gas), and [Appendix C-3](#) (tap water) and are summarized below.

4.4.2.1 Incremental Risks – Soil

No chemicals in soil exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10. Total Carcinogenic PAHS (BaP TEQs) had a maximum CEF of 2 at location AR03.

4.4.2.2 Incremental Risks – Soil Gas

No chemicals in soil gas exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10. In addition, no chemicals exceeded RSLs.

4.4.2.3 Incremental Risks – Tap Water

Three chemicals exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10. Lead had a Tap Water via Ingestion+Inhalation maximum NCEF of 1.4 and exceeded RSLs in two samples, AR11 and AR16. Nickel had a Tap Water via Ingestion+Inhalation maximum NCEF of 11.4 and exceeded non-cancer RSLs at three locations: AR03, AR09, and AR11. Naphthalene had a Tap Water via Ingestion+Inhalation NCEF of 1.1 and a Tap Water via Ingestion+Inhalation CEF of 48.1 at location AR16. Similarly, naphthalene had a Tap Water via Inhalation-Only NCEF of 1.1 and a Tap Water via Inhalation-Only CEF of 48.1 at location AR16.

4.4.2.4 Incremental Risks – Ambient Air

No ambient air samples were collected from this location.

4.4.3 *Parco Eva*

Twelve soil samples, 10 soil gas samples, and 10 tap water samples (the number of samples might be higher for some chemicals due to resampling) were collected at Parco Eva (see [Figure 4-24](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix C-1](#) (soil), [Appendix C-2](#) (soil gas), and [Appendix C-3](#) (tap water) and are summarized below.

4.4.3.1 Incremental Risks – Soil

No chemicals in soil exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10.

4.4.3.2 Incremental Risks – Soil Gas

No chemicals in soil gas exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10. However, tetrachloroethene had a maximum CEF of 9.9 and exceeded the RSL at two sample locations, EV04 and EV11.

4.4.3.3 Incremental Risks – Tap Water

Nickel exceeded the risk-management criteria with a Tap Water via Ingestion+Inhalation maximum NCEF of 1.2 from one sample, EV07. No chemicals exceeded the risk-management criteria of CEF greater than 10. However, total dioxin/furans (2,3,7,8-TCDD TEQs) had a Tap Water via Ingestion+Inhalation maximum CEF of 4.1 and exceeded the RSL at two locations, EV09 and EV12. No chemicals in tap water had Tap Water via Inhalation-Only NCEFs or CEFs greater than one.

4.4.3.4 Incremental Risks – Ambient Air

The ambient air results are presented in section 4.3.7.1.

4.4.4 *Parco Le Ginestre*

Eleven soil samples, nine soil gas samples, 10 tap water samples, and one irrigation-well water sample (the number of samples might be higher for some chemicals due to resampling) were collected at Parco Le Ginestre (see [Figure 4-25](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix C-1](#) (soil), [Appendix C-2](#) (soil gas), [Appendix C-3](#) (tap water), and [Appendix C-4](#) (irrigation-well water) and are summarized below.

4.4.4.1 Incremental Risks – Soil

No chemicals in soil exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10. In addition, no chemicals exceeded RSLs.

4.4.4.2 Incremental Risks – Soil Gas

No chemicals in soil gas exceeded the risk-management criteria of an NCEF greater than one and only one chemical had a CEF greater than 10. Tetrachloroethene exceeded the CEF criteria at location LE07

with a CEF of 171.7, at location LE20 with a CEF of 19.0, and at location LE03 with a CEF of 24.0. In addition, three other locations had CEFs greater than one for tetrachloroethene: LE01, LE11, and LE19. One location, LE08, had a CEF greater than one for chloroform.

4.4.4.3 Incremental Risks – Tap Water

No chemicals exceeded the risk-management criteria of an NCEF greater than one and only one chemical exceeded the CEF greater than 10. Tetrachloroethene had a Tap Water via Ingestion+Inhalation maximum CEF of 22.8 at location LE01. Total dioxin/furans (2,3,7,8-TCDD TEQs) had Tap Water via Ingestion+Inhalation CEFs greater than one at two locations: LE19 and LE20. Dibromochloromethane had Tap Water via Ingestion+Inhalation CEFs greater than one at three locations: LE01, LE10, and LE20. Chloroform also had Tap Water via Ingestion+Inhalation CEFs greater than one, with a maximum CEF of 1.9, and exceeded RSLs at eight locations: LE01, LE03, LE07, LE10, LE11, LE15, LE19, and LE20. Tetrachloroethene had a Tap Water via Inhalation-Only maximum CEF of 3.1 at location LE01. Eight locations (LE01, LE03, LE07, LE10, LE11, LE15, LE19, and LE20) had chloroform Tap Water via Inhalation-Only CEFs greater than one, with a maximum CEF of 1.8. Total coliforms exceeded USMCLs at location LE19.

4.4.4.4 Incremental Risks – Irrigation Well Water

Two chemicals exceeded the risk-management criterion of an NCEF greater than one and only one chemical exceeded the risk-management criterion of a CEF greater than 10. Zinc and nitrate had Tap Water Ingestion+Inhalation NCEFs of 1.1 at LEIW01. Tetrachloroethene had a Tap Water via Ingestion+Inhalation CEF of 10.1 at location LEIW01. At location LEIW01, total dioxin/furans (2,3,7,8-TCDD TEQs) and bis(2-ethylhexyl) phthalate had Tap Water via Ingestion+Inhalation CEFs of 1.3 and 5.6, respectively. Tetrachloroethene had a Tap Water via Inhalation-Only CEF of 1.4 at location LEIW01. At location LEIW01, bis(2-ethylhexyl) phthalate, fecal coliform, nitrate, total coliforms, and uranium exceeded USMCLs.

4.4.4.5 Incremental Risks – Ambient Air

The ambient air results are presented in section 4.3.9.1.

4.4.5 NAVFAC-Leased Homes

Six soil samples, six soil gas samples, and six tap water samples (the number of samples might be higher for some chemicals due to resampling) were collected at NAVFAC-Leased Homes (see [Figure 4-26](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix C-1](#) (soil), [Appendix C-2](#) (soil gas), and [Appendix C-3](#) (tap water) and are summarized below.

4.4.5.1 Incremental Risks – Soil

No chemicals in soil exceeded the risk-management criteria of an NCEF greater than one. Total carcinogenic PAHS (BaP TEQs) had a maximum CEF of 65.6 at location FQ05, which exceeds the RSL.

4.4.5.2 Incremental Risks – Soil Gas

No chemicals in soil gas exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10.

4.4.5.3 Incremental Risks – Tap Water

No chemicals in tap water exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10. Tetrachloroethene had a Tap Water via Ingestion+Inhalation CEF of 2.1 at location FQ03. Chloroform had a Tap Water via Ingestion+Inhalation CEF of 1.1, and a Tap Water via Inhalation-Only CEF of 1.0, at location FQ03. In addition, total coliforms exceeded the USMCL at location FQ06.

4.4.5.4 Incremental Risks – Ambient Air

No ambient air samples were collected from this location.

4.4.6 *Gricignano Support Site*

Ten soil samples, 10 tap water samples, and nine irrigation-well water samples (the number of samples might be higher for some chemicals due to resampling) were collected at Gricignano Support Site (see [Figure 4-27](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix D-1](#) (soil), [Appendix D-2](#) (tap water), and [Appendix D-3](#) (irrigation-well water) and are summarized below.

4.4.6.1 Incremental Risks – Soil

No chemicals in soil exceeded the risk-management criteria of an NCEF greater than one. Total carcinogenic PAHs (BaP TEQs) had a CEF of 25.7 at location SU06.

4.4.6.2 Incremental Risks – Tap Water

No chemicals in tap water exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10 and there were no exceedances of USMCLs. However, total dioxin/furans (2,3,7,8-TCDD TEQs) had a Tap Water via Ingestion+Inhalation CEF of 2.4 at location SUTW03. Chloroform had a Tap Water via Ingestion+Inhalation maximum CEF of 2.6 at location SUTW02 and CEFs greater than one at SUTW06 and SUTW07. Dibromochloromethane had a Tap Water via Ingestion+Inhalation maximum CEF of 2.1 at SUTW06 and exceeded RSLs at five other locations: SUTW05, SUTW07, SUTW08, SUTW09 and SUTW10. Chloroform had a Tap Water via Inhalation-Only maximum CEF of 2.3 at SUTW02 and exceeded the RSL at SUTW06 and SUTW07.

4.4.6.3 Incremental Risks – Irrigation Well Water

No chemicals in irrigation wells exceeded the risk-management criteria of an NCEF greater than one. Total dioxin/furans (2,3,7,8-TCDD TEQs) had a Tap Water via Ingestion+Inhalation maximum CEF of 10.4 at SUIW05 and exceeded RSLs at two other locations: SUIW02 and SUIW06. Tetrachloroethene had a Tap Water via Ingestion+Inhalation maximum CEF of 5.4 at location SUIW03 and exceeded RSLs

at four other locations: SUIW01, SUIW02, SUIW06, and SUIW11. Nitrate exceeded the USMCL at nine locations: SUIW01, SUIW02, SUIW03, SUIW04, SUIW05, SUIW06, SUIW07, SUIW08, and SUIW11. Irrigation-well water exceeded the total coliforms USMCL at five locations: SUIW01, SUIW02, SUIW04, SUIW07, and SUIW11. Nitrite exceeded the USMCL at SWIW08.

4.4.6.4 Incremental Risks – Ambient Air

The ambient air results are presented in section 4.3.6.1.

4.4.7 *Capodichino*

Ten soil samples, 10 tap water samples, and one irrigation-well water sample (the number of samples might be higher for some chemicals due to resampling) were collected at Capodichino (see [Figure 4-28](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix D-1](#) (soil), [Appendix D-2](#) (tap water), and [Appendix D-3](#) (irrigation-well water) and are summarized below.

4.4.7.1 Incremental Risks – Soil

No chemicals in soil exceeded the risk-management criteria of an NCEF greater than one and only one chemical exceeded a CEF greater than 10. Total carcinogenic PAHs (BaP TEQs) had a maximum CEF of 12.0 at CA06 and a CEF of 2.9 at CA05.

4.4.7.2 Incremental Risks – Tap Water

No chemicals in tap water exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10 and there were no exceedances of USMCLs. Chloroform had a Tap Water via Ingestion+Inhalation maximum CEF of 2.4 at CATW08 and exceeded the RSL at one other location: CATW01. Dibromochloromethane had a Tap Water via Ingestion+Inhalation maximum CEF of 2.5 at CATW08. Chloroform had a Tap Water via Inhalation-Only maximum CEF of 2.2 at CATW08 and exceeded the RSL at one other location: CATW01.

4.4.7.3 Incremental Risks – Irrigation Well Water

No chemicals in irrigation wells exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10. At location CAIW01, chloroform, tetrachloroethene, and trichloroethene had Tap Water via Ingestion+Inhalation CEFs of 1.4, 7.9, and 1.6, respectively. Similarly, at location CAIW01, chloroform, tetrachloroethene, and trichloroethene had Tap Water via Inhalation-Only CEFs of 1.3, 1.1, and 1.1, respectively. One location, CAIW01, had a nitrate concentration that was greater than the USMCL.

4.4.7.4 Incremental Risks – Ambient Air

The ambient air results are presented in section 4.3.3.1.

4.4.8 *Lago Patria Receiver Site*

Three tap water samples (the number of samples might be higher for some chemicals due to resampling) were collected at Lago Patria Receiver Site (see [Figure 4-29](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix D-2](#) (tap water) and are summarized below.

4.4.8.1 Incremental Risks – Tap Water

No chemicals in tap water exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10 and there were no exceedances of USMCLs.

4.4.8.2 Incremental Risks – Ambient Air

The ambient air results are presented in section 4.3.5.1.

4.4.9 *Carney Park*

Ten soil samples, three tap water samples, and two irrigation-well water samples (the number of samples might be higher for some chemicals due to resampling) were collected at Carney Park (see [Figure 4-30](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix D-1](#) (soil), [Appendix D-2](#) (tap water), and [Appendix D-3](#) (irrigation-well water) and are summarized below.

4.4.9.1 Incremental Risks – Soil

No chemicals in soil exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10. However, total carcinogenic PAHs (BaP TEQs) had a maximum CEF of 1.7 at location CP10, which exceeded the RSL.

4.4.9.2 Incremental Risks – Tap Water

No chemicals in tap water exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10 and there were no exceedances of USMCLs. Bromodichloroemthane had a Tap Water via Ingestion+Inhalation maximum CEF of 2.1 at CPTW02 and exceeded RSLs at two other locations: CPTW01 and CPTW03. Chloroform had a Tap Water via Ingestion+Inhalation maximum CEF of 4.4 at CPTW02 and exceeded RSLs at two other locations: CPTW01 and CPTW03. Dibromochloromethane had a Tap Water via Ingestion+Inhalation maximum CEF of 7.2 at CPTW02 and exceeded RSLs at two other locations: CPTW01 and CPTW03. Tetrachloroethene had a Tap Water via Ingestion+Inhalation maximum CEF of 1.2 at CPTW03 and also exceeded the RSL at CPTW01. Chloroform had a Tap Water via Inhalation-Only maximum CEF of 4.0 at CPTW02 and exceeded RSLs at two other locations: CPTW01 and CPTW03.

4.4.9.3 Incremental Risks – Irrigation Well Water

No chemicals in irrigation wells exceeded the risk-management criteria of an NCEF greater than one and only one chemical had a CEF greater than 10. Chloroform had a Tap Water via Ingestion+Inhalation maximum CEF of 29.1 at CPIW01. In addition, tetrachloroethene and total dioxin/furans (2,3,7,8-TCDD TEQs) had Ingestion+Inhalation CEFs at CPIW01 of 3.0 and 1.6, respectively. Chloroform had a Tap

Water via Inhalation-Only maximum CEF of 26.3 at CPIW01. Nitrate and total coliforms exceeded USMCLs at CPIW01.

4.4.9.4 Incremental Risks – Ambient Air

The ambient air results are presented in section 4.3.4.1.

4.4.10 JFC NATO

Nine soil samples and three tap water samples (the number of samples might be higher for some chemicals due to resampling) were collected at JFC NATO Site (see [Figure 4-31](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix D-1](#) (soil) and [Appendix D-2](#) (tap water) and are summarized below.

4.4.10.1 Incremental Risks – Soil

No chemicals in soil exceeded the risk-management criteria of an NCEF greater than one and only one chemical had a CEF greater than 10. Total carcinogenic PAHs (BaP TEQs) had a maximum CEF of 13.3 at NA04 and exceeded the RSL at six other locations: NA01, NA03, NA06, NA07, NA08, and NA09. Total dioxin/furans (2,3,7,8-TCDD TEQs) had a maximum CEF of 2.9 at location NA01 and exceeded the RSL at two other locations: NA06, and NA09.

4.4.10.2 Incremental Risks – Tap Water

No chemicals in tap water exceeded the risk-management criteria of a NCEF greater than one or CEF greater than 10 and there were no exceedances of USMCLs.

4.4.10.3 Incremental Risks – Ambient Air

The ambient air results are presented in section 4.3.1.1.

4.4.11 U.S. Consulate-Naples

One soil sample and four tap water samples (the number of samples might be higher for some chemicals due to resampling) were collected at the U.S. Consulate in Naples (see [Figure 4-32](#)). The results of the comparison of RSLs to chemical concentrations are presented in [Appendix D-1](#) (soil) and [Appendix D-2](#) (tap water) and are summarized below.

4.4.11.1 Incremental Risks – Soil

No chemicals in soil exceeded the risk-management criteria of an NCEF greater than one. Total carcinogenic PAHs (BaP TEQs) had a maximum CEF of 17.2 at CS01. Also at CS01, total dioxin/furans (2,3,7,8-TCDD TEQ) had CEF of 1.2.

4.4.11.2 Incremental Risks – Tap Water

No chemicals in tap water exceeded the risk-management criteria of an NCEF greater than one or CEF greater than 10 and there were no exceedances of USMCLs. Chloroform had a Tap Water via

Ingestion+Inhalation maximum CEF of 2.0 at CSTW03 and exceeded the RSL at three other locations: CSTW01, CSTW02 and CSTW04. Dibromochloromethane had a Tap Water via Ingestion+Inhalation maximum CEF of 1.3 at CSTW04 and also exceeded the RSL at CSTW02. Tetrachloroethene had a Tap Water via Ingestion+Inhalation maximum CEF of 5.2 at CSTW02 and exceeded the RSL at three other locations: CSTW01, CSTW03 and CSTW04. Total dioxin/furans (2,3,7,8-TCDD TEQs) had Ingestion+Inhalation CEF of 2.1 at CSTW03. Chloroform had a Tap Water via Inhalation-Only maximum CEF of 1.8 at CSTW03 and exceeded the RSL at three other locations: CSTW01, CSTW02 and CSTW04.

4.4.11.3 Incremental Risks – Ambient Air

The ambient air results are presented in section 4.3.2.1.

4.5 Uncertainty Analysis

The purpose of this Uncertainty Analysis is to identify key components of the SRE report that could significantly impact the results of the evaluation. It is important to note that only a portion of the Naples investigation has been completed and the purpose of this report is to evaluate existing data in spite of known data gaps. This evaluation will be useful for planning any additional environmental sampling in the nine study areas. The key uncertainties evaluated in this analysis are associated with:

- Representativeness of soil, soil gas, tap water, well water, and ambient air analytical data
- Background concentrations of inorganics (e.g., arsenic) in soil and tap water
- Background concentrations of chemicals in ambient air
- Exposure assumptions
- Toxicity values

Uncertainty occurs because of a lack of knowledge. In other words, uncertainty is an expression of the confidence we have that a parameter accurately reflects the population. For example, the uncertainty associated with a study to determine average body weight for a population based on the results for 100 individuals is much higher than a study that included 10,000 individuals. Consequently, an SRE conducted using the 10,000-individual average would have less uncertainty (more confidence) than one using the 100-individual average. Generally, the larger the number of individuals included in a study, the higher the confidence in the findings. Theoretically, it is possible to eliminate uncertainty by expanding the study to include all members of a population.

Variability, on the other hand, is an expression of the range of differences between individuals observed for a given population. For example, the mean body weights of a study of 10,000 individuals might be 71.7 kg, but the range (variability) might be from 37 to 135 kg with a standard deviation of 15.9 kg. It is not possible to eliminate variability in heterogeneous populations, even if there is no uncertainty.

4.5.1 *Representativeness of the Analytical Data Used in the SRE*

A key input into this SRE was the measured chemical concentrations in soil, soil gas, tap water, and ambient air. The goal of every environmental sampling program is to characterize the concentrations and

locations of chemicals in media of interest in order to quantify resulting human exposures and subsequent health risks. Every effort was made to optimize the Naples sampling programs. However, there were inherent uncertainties associated with representativeness of the chemical dataset and these are discussed below.

4.5.1.1 Biased Sampling Design

A biased sampling design was implemented in order to sample areas within the Naples area of Campania where USN personnel work and live with the highest potential of being impacted by burning of trash or dumping of chemical waste. To achieve this, Italian data regarding trash and chemical dump sites was reviewed in order to collect samples from these "worst-case" areas (see [Figure 4-33](#)). This is a key uncertainty because it assumes that the Italian data used to identify the "worst-case" areas for sampling is accurate. In addition, no chemical-specific information was available from the Italian Government with respect to the specific dump sites presented on [Figure 4-33](#) so it was not feasible to prioritize sampling in areas with chemicals that are the most toxic. Consequently, each dump site was assumed to have the same potential risk to human health, which is probably not correct because of the heterogeneous nature of the chemical composition of trash and because a variety of different chemicals were likely dumped at different times and locations throughout Campania.

4.5.1.2 Single Sample from a Location

In most cases, the risks presented in this SRE were based on a single-sampling event at a specific location. A single sample only provides a "snapshot" of concentrations that are present in soil, soil gas, and tap water. One sample may or may not be representative of the soil, soil gas, and tap water concentrations present at this location. This is especially true for tap water from shallow, private wells where the concentrations may vary over time due to factors such as the time of year, the amount of associated rainfall, and the amount of aquifer pumping performed by the resident and/or their neighbors.

4.5.1.3 Sampling and Long-Term Exposures

Typical tour lengths at Naples are between three and six years. The SRE assumed that people could be exposed to chemicals for 30 years. Using environmental sampling results for soil, soil gas, and tap water from a single sampling event introduces uncertainty into the evaluation because the concentrations may not be representative of long-term conditions.

Similarly, five ambient air samples were collected over a 30-day period from each study area. The measured concentrations may not be representative of long-term conditions for a number of reasons. Meteorological conditions during the sampling period might not be representative of long-term conditions. In many cases wind speed and direction change throughout the year and a one-time sampling event may not be representative due to the variability. Anthropogenic sources of chemicals in ambient air (e.g., trash burning) may be emitted irregularly and associated ambient air concentrations likely vary accordingly.

4.5.1.4 Spatial Sample Density

Combined, the Naples study areas are approximately 395 square miles, which is considered a large area to evaluate. Samples were collected from areas where USN personnel work and live. Additionally, there were a number of media that were potentially impacted (i.e., soil, soil gas, tap water and ambient air), which also adds to the scope of the evaluation. The large study area combined with the number of media to be evaluated introduces uncertainty with regard to the spatial density of samples for the SRE (see [Figure 4-3](#)). There may be areas where samples have not been collected that have affected media.

4.5.1.5 Passive Soil Gas Sampling Results

The soil gas concentrations evaluated in this study were based on results obtained from GORE™ Modules, which are patented, passive diffusion sorbent-based samplers, that collect samples for VOCs, SVOCs, and pesticides. The passive soil gas collection process measures chemical mass rather than concentration. Soil gas concentrations were estimated by Gore using the mass of chemical detected in combination with information obtained regarding the soil type in Naples and the Campania region. Although soil gas concentrations were estimated using default assumptions regarding soil characteristics, the information is not truly suitable for a robust quantitative risk assessment. The data collected via this process can be useful for screening purposes to determine if there is a potential for vapor intrusion. Consequently, there is some uncertainty with regards to the risks presented for soil gas. However, it is not possible to quantify the impact of using the passive soil gas results in the SRE. During Phase II of the PHE, soil gas will be collected using active, soil-gas sampling techniques, which will provide results in units of concentration that can be used directly in the risk assessment and are viewed by most experts in the vapor intrusion field as the most reliable method for collecting soil gas for use in risk assessment.

4.5.1.6 Determination of Public Water versus Well Water

There was some uncertainty with determining whether a residence received its water from public water, a private well, or a blended system. Limitations were associated with locating wells and water meters at residences. In addition, some residences were sampled prior to the public versus private well inspection. This did not impact the risk calculations but did create uncertainty when summarizing the risks associated with public water in contrast to private well water.

4.5.1.7 Impact of the Analytical Data on the SRE

The uncertainty and variability of analytical data were addressed in two ways. First, when more than one sample was collected from the same medium at a location, the maximum-detected concentration was compared to risk-based criteria in order to evaluate the potential risks. Secondly, when multiple samples were available for a location, the upper-bound exposure point concentration (i.e., the maximum-detected concentration) were used in the SRE. The exposure point concentration represents an upper-bound estimate of the concentration that a receptor could be exposed to over the entire study area, rather than just at one sample location. Overall, the uncertainty associated with the sampling data was minimized due to the quality of the data, the large number of samples, the design of the Phase I sampling program as well as subsequent sampling programs, and the use of maximum-detected concentrations and upper-bound exposure point concentrations.

4.5.2 Background Concentrations of Inorganic Chemicals in Soil and Tap Water

Determining representative background concentrations for inorganic chemicals is an important step in the process of identifying and characterizing inorganic chemical concentrations and the risks associated with those concentrations. In Campania, background concentrations of arsenic in soil and tap water exceeded RSLs. In fact, in almost all cases the concentrations posed an unacceptable risk based on the USN risk-management criteria for this project. Since the concentrations of arsenic are naturally occurring and are likely associated with volcanic activity in the region, arsenic was not included in the incremental risk calculations presented in this report. However, arsenic was included in the total risks for comparison purposes.

Overall, the uncertainty associated with background concentrations was minimized by incorporating site-specific background data from the Naples area (Cicchella et al., 2005).

4.5.3 Background Concentrations of Chemicals in Ambient Air

Determining representative background concentrations for chemicals in ambient air is an important step in the process of identifying and characterizing chemical concentrations and the risks associated with those concentrations. The purpose of the SRE is to determine whether or not there are any potential health impacts associated with exposure to surface soil, indoor air, tap water, and ambient air to USN personnel residing in the Naples area of Campania. Background ambient air concentrations for the Naples area of Campania were not available. Therefore, the maximum-detected ambient air values from six U.S. cities (i.e., San Diego, California, Los Angeles, California, Seattle, Washington, Houston, Texas, Midlothian, Texas, and Washington DC) found in the 2007 U.S. EPA Air Toxics Database (USEPA, 2007) were used as background concentrations for this evaluation. In Campania, concentrations of many chemicals exceeded their RSLs and posed unacceptable risk based on the USN risk-management criteria for this project. However, only chemicals that exceeded the U.S. air background data were included in the incremental risk calculations presented in this report.

4.5.4 Exposure Assumptions

The RSLs used in this assessment for evaluating all locations (residences and U.S. Government-related facilities) were based on standard USEPA 30-year residential exposures. These RSLs are extremely conservative because the typical USN tour length is three years or occasionally, six years. Consequently, the RSLs are five to 10 times more protective than actual, expected exposures. The USN decided to apply the more conservative RSLs in the SRE because in some instances DoD teachers and other U.S. civil servants remain in Campania for 10 to 20 years or more. Therefore, in order to be protective of the entire U.S. population in Campania, the 30-year RSLs were used, which overestimated the risks because the vast majority of the USN personnel (90%) live in Campania less than six years.

A source of uncertainty that results in an underestimate of the risk is that the “dermal contact with tap water while bathing” (i.e., taking a bath in the bathtub) exposure pathway was not included in the evaluation. Since the Phase I SRE is a screening assessment, the USN decided to use standard USEPA

RSLs. The RSLs for tap water do not include the dermal contact with tap water while bathing exposure pathway, which results in an underestimation of the risks for individuals who bathe often (e.g., daily).

4.5.5 Toxicity Values

USEPA cancer and noncancer toxicity values were used to evaluate the potential risks and noncancer hazards associated with exposure to chemicals. The uncertainty associated with these toxicity values was addressed by incorporating conservative assumptions and modifying factors into the cancer and noncancer toxicity values.

The mechanism for carcinogenesis is considered to be a “non-threshold” process, because any level of exposure to a carcinogen is considered to pose a small, but finite probability of generating a carcinogenic (cancer) response. Because risk at low exposure levels cannot be measured directly by animal experiments or by epidemiologic studies, a number of mathematical models and procedures have been developed for use in extrapolating from high to low doses, which are most similar to potential human exposures from chemicals in the environment. While different extrapolation models or procedures may reasonably fit the observed data, they may lead to large differences in the projected risk at low doses. In developing cancer slope factors (CSFs), the USEPA assumes that a single interaction with deoxyribonucleic acid (DNA) can initiate cancer, allowing for low-dose extrapolation to be performed with nearly zero exposure. Making zero a data point affects the slope of the extrapolation curve and therefore results in a more conservative CSF. This means that the relatively high doses that are often used in animal studies can be extrapolated downward to extremely small doses, with some incremental risk of cancer always possible. This assumes that even a small number of molecules (possibly a single molecule) of a carcinogen may cause changes in a single cell that could result in the cell dividing in an uncontrolled manner, eventually leading to cancer.

There is some dispute as to whether or not linear extrapolation to zero is a valid approach, because cells have a number of detoxification mechanisms (e.g., DNA repair enzymes) that can repair damage from carcinogens at low doses.

CSFs are usually derived by the USEPA, often using a linearized multistage model, and reflect the upper-bound limit of the cancer potency of any chemical. As a result, the calculated carcinogenic risk is likely to represent a plausible upper limit to the risk. The actual risk is unknown, but is likely to be lower than the predicted risk, and may be as low as zero (USEPA, 1989).

A noncancer RfD is defined as “an estimate (with uncertainty possibly spanning an order of magnitude or greater) of a daily exposure level for the human population, including sensitive subgroups, that is likely to be without an appreciable risk of deleterious effects during a portion of the lifetime” (USEPA, 1989). RfDs incorporate safety factors, which represent a specific area of uncertainty inherent in the available data, such as:

- Differences in responsiveness between humans and animals in prolonged exposure studies (factor of 10; USEPA, 2008)

- Variation in susceptibility among individuals in the human population (factor of 10; USEPA, 2008)
- Incomplete databases (e.g., those for which only the results of subchronic studies are available; factor of 10; USEPA, 2008)

In addition to the safety factors, the USEPA applies modifying factors in some instances. Modifying factors range from zero to 10 and are included to reflect a qualitative professional assessment of additional uncertainties in the critical study, and in the entire database, for the chemical not explicitly addressed by the uncertainty factors. The default value for the modifying factor is one.

The cumulative effect of these conservative assumptions used to derive toxicity values is more conservative (i.e., health-protective) risk estimates.

4.5.6 Summary of Uncertainties

There was uncertainty in this SRE with regard to the representativeness of the analytical data, background concentrations of chemicals, exposure assumptions and toxicity values. In all cases where uncertainty existed in the assessment, assumptions and inputs were selected to ensure that site risks were not underestimated, and these uncertainties did not impact the confidence in the conclusions of the assessment.

4.6 References

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SECTION 5 – RISK MANAGEMENT

5.1 Introduction

There is a distinction between risk management and risk assessment. Risk assessment is an attempt to come to an objective characterization of the risks inherent to a process (i.e., tap water contamination) or agent in question among the population of interest. Risk assessment supplies the risk manager (CNREURAFSWA/NSA Naples) with information that is technical, rational, and objective.

Risk management is the process of using this information, together with the information on costs, feasibility, effectiveness of various control measures, consideration of interests and preferences, rights and obligations of the parties involved, to arrive at decisions about what course of action to take about the existence of the risks.

This distinction allows a legitimate place for values (economic, social), conflicting interests, and other extra-scientific issues to influence the decision-making process. Risk managers then must use information gathered about a situation regarding risk posed to human health and consider the nature and magnitude of risks, the need for reducing or eliminating the risk, and the effectiveness and costs (monetary and non-monetary) of options for reducing the risks. In implementing various options, the risk managers should consider the economic, social, cultural, ethical, legal and political implications associated with implementing each option, as well as any population health considerations each option may cause.

5.2 The Framework for Risk Management

Our approach emphasizes the subjective and value-laden nature of risk and the multi-dimensionality of risk, which is site-specific. To help meet these needs, we are using a comprehensive risk-management framework that can address various chemicals, media, and sources of exposure, as well as public values, perceptions, and ethics, and keeps the focus on the risk-management goal. This framework generally follows that established by the 1997 Presidential/Congressional Commission on Risk Assessment and Risk Management who introduced a risk-management framework to set forth good practices for making risk-management decisions and for actively engaging stakeholders in the process (Risk Assessment and Risk Management In Regulatory Decision-Making, Final Report, Volume 2, 1997).

This framework uses a clear six-stage process for risk management that can be scaled according to the importance of the public health issue and includes:

1. Defining the problem and put it in context.
2. Analyzing the risks associated with the problem in context.
3. Examining options for addressing the risks.
4. Making decisions about which options to implement.
5. Taking actions to implement the decisions.

6. Conducting an evaluation of the effectiveness of the actions taken.

Section 6 of this document (Conclusions and Recommendations) has condensed the SRE to the basic key findings that are relevant to the risk-management process to facilitate decision making. This section presents risk-management actions performed to date by CNREURAFSWA and NSA Naples leadership in their difficult task of implementing a risk-reduction strategy.

5.3 Risk-Management Actions to Date

5.3.1 Communication

- The following communication venues are routinely used to keep USN personnel current on PHE results:
 - All Hands E-mails
 - Routine town hall meetings
 - Weekly PHE updates in the NSA Naples newspaper, Panorama
 - CNRE Flag weekly updates to the Chain of Command
 - Stars & Stripes (European Edition) articles
 - American Forces Network (AFN) Europe articles and Television Stories
 - Periodic Press Conferences with Italian Media (e.g., Il Mattino, La Repubblica, Il Roma, L'Espresso)
 - Hired full time Italian Translator to scan, translate and distribute relevant articles of public health interest appearing in Italian Media
 - Periodic meetings between CNREURAFSWA/NSA Naples/U.S. Consulate/NATO Leadership and Italian Government Officials
- Developed/stood up NSA Naples Community Health Awareness Website at: <http://www.nsa.naples.navy.mil/risk/index.cfm>, which includes the following content: weekly updates, fact sheets, frequently asked questions, links, correspondence, archives, etc.
- Full time Reserve Commander Public Affairs Officer (PAO), mobilized and assigned as primary PAO to the Naples PHE.
- U.S. Naval Hospital Naples, under the direction of the Director of Occupational and Environmental Medicine, stood up an Environmental Health Information Center (EHIC), which acts as a central point of contact for concerned personnel to either call or visit to obtain information regarding PHE findings to date and to have their health concerns discussed. In addition, the EHIC also makes immediate notification calls to residents whose homes were sampled and that may have results that exceed the USN's risk-management criteria for notification and/or relocation.
- Weekly PHE Technical teleconference between CNREURAFSWA/NSA Naples Action Officers, NMCPHC, NAVFAC and contractors (e.g., Tetra Tech, PIONEER) to discuss technical issues, project schedule and review project status. Minutes are generated.
- Bi-weekly teleconference Regional Health Awareness Group (RHAWG – members include: CNREURAFSWA, NSA Naples, PAOs, Housing, Legal, Naval Hospital, Environmental, PHE

Technical Team) to discuss any and all issues germane to conducting the PHE. Minutes are generated.

- Stood up and chartered the Community Action Group (CAG) chaired by the NSA Executive Officer, comprised of ombudsmen, USN leadership, and community representatives who meet periodically to address any issues of concern regarding the PHE and the health and environmental issues it is addressing. Minutes are generated.
- For the first time, Water Quality Consumer Confidence Reports (CCRs) were developed and posted on the NSA website for Capodichino, Gricignano Support Site and Gaeta at: <http://www.nsa.naples.navy.mil/environmental/CCR.htm>

Legal

- Developed/stood up the CNRE Administrative Record Portal.
- Expanded the "Legal Habitability" Housing document list used to screen houses and shared with the Consulate and Italian officials.

Legal – Water Quality

- CNRE requested the Secretary of the Navy (CNRE Memo for the Secretary of the Navy Requesting Emergency and Extraordinary Expense (EEE) funds, 21 Aug 2008) to authorize the use of EEE funds for the provision of potable water to USN personnel in homes privately leased in the Naples and Caserta provinces of the Campania Region. The Secretary of the Navy granted that request and NSA Naples and NEX Naples began distributing bottled water within hours of CNRE's receipt of the EEE funds (\$144,000 or 457,143 liters).
- Requested (CNRE letter to U.S. Department of State, Office of Allowances, SER N00J/035, 29 Oct 2008) that the U.S. Department of State, Office of Allowances, recognize that containerized water is a proper Living Quarters Allowance expense for civilian employees and that an "out-of-cycle" utilities survey be conducted for the greater Naples area at the earliest possible date.
- Requested (CNRE Memo to DoD Per Diem Travel & Transportation Allowance Committee (PDT&TAC), SER N00J/035, 29 Oct 2008) that PDT&TAC grant a temporary augmentation of the military utilities allowance for containerized water and conduct an accelerated "out-of-cycle" utilities survey be conducted for the greater Naples area at the earliest possible date.
- Directed NSA, Naples to modify economy leases to require all landlords to provide tenants with a containerized water service. To date 135 new leases have been signed. Nine landlords with existing leases have been contacted of those, seven have agreed to provide bottled water; those leases are in the process of renegotiation. At the current rate of consumption, bottled water is anticipated to last through 08 April 2009. However, it is expected that the date will be extended as consumption rates decrease due to lease amendments. Tenants are encouraged to initiate the lease renegotiation process with the expectation that all leases will be renegotiated before the bottled water supply is exhausted.
- Directed Naval Facilities Engineering Command, Europe and Southwest Asia (NAVFAC) to modify leases for U.S. Government quarters to require all landlords to provide tenants with a containerized water service at all U.S. Government quarters and NAVFAC-leased homes.

- Directed NSA Naples to limit Housing Eligibility List to only those homes with proven, safe-water sources through pre-screening of new leases.
- Directed NSA Naples to modify economy leases to require all landlords to clean and disinfect all supplementary drinking water systems every six months.
- With the assistance of the U.S. Consulate in Naples, NMCPHC and NAVFAC, defined high-risk areas. As a protective measure, directed that NSA Naples suspend all new leases in those areas until further notice.

Science

- Developed/stood up Environmental Information Management System (EIMS) website for technical team members to access reports, sampling results, maps, etc.
- No Lease Zones (NLZs) were defined barring signing of any new leases in these areas until additional sampling and evaluation had occurred. This was accomplished using multiple lines of evidence, discovered throughout the PHE process:
 - Sampling results (both U.S. and Italian) for bacteria and VOCs showing unacceptable levels in tap water
 - Illegal hazardous waste dumping and potential plumes
 - The age of the city water distribution system
 - Lack of code enforcement by Italian authorities
 - Lack of code compliance by landlords
 - Lack of comprehensive backflow prevention laws
 - System low pressure issues
 - High incidence of illegal wells
 - High incidence of illegal interconnects to the public drinking water system
 - High incidence of “blended” systems (well + public water) due to illegal interconnections
- 2008 First “Step-Out” investigation (500 ft) was begun in response to sampling results indicating ground water contamination and a suspected plume of PCE.
- 2009 Second “step out” (1500 ft) sampling including ASGS in the New Lease Suspension Zone (NLSZ) has begun to determine the boundary of the suspected plume.
- Seventeen families whose homes had unacceptable sampling results that could not be mitigated, thus necessitating a move out, have been contacted by the EHIC. CO NSA Naples has sent an official letter directing relocation to all 17 families concerned and NSA Housing monitors the timeline on mandatory move-out dates. Seven of the 17 families have already relocated into another home.

Science – Epidemiologic Studies

These studies are released upon completion and will be included as parts of the final report.

- Asthma study – Completed on 10 October 2007
- Birth outcomes – Completed on 22 December 2008
- Food analysis – Completed on 31 March 2009
- Cancer study – Completed on 31 March 2009

Review of Italian literature

This effort is ongoing; to date 62 of 88 Environmental documents and 14 of 16 health documents have been translated and reviewed for validity and pertinent information. An appendix devoted to this review will be in the final report.

Science – Water Quality:

- On 30 July 2007, CNRE signed out a Drinking Water Management Instruction (COMNAVREGEURINST 11330.1) which established the policy for management of drinking water systems at CNRE installations.
- Based on preliminary findings of widespread bacterial exceedances in tap water (well water and blended water), CNRE implemented a Bottled Water Advisory in July 2008. This advisory recommended that all USN personnel residing off-base use containerized water for drinking, food preparation/cooking, ice-making, and brushing teeth.
- Negotiated the supply of potable water from the Town of Pozzuoli into the Carney Park Recreation Facility to service various activities (e.g., pools, showers, golf course, restaurant, cabins, etc.) used by USN and host nation personnel.
- In FY-09, plans have been approved for funding the installation of a Reverse Osmosis Water Treatment System to be installed at the Lago Patria Receiver Site to bring in potable water for the first time.

5.3.2 Host Nation Cooperation & Coordination

- Working with the U.S. Consulate in Naples, established three permanent Italian Government Liaisons:
 - The General Director of Civil Protection: Agostino Miozzo
Mail Address: General Director, International Relations Office
Via Vitorchiano 400189 Roma
 - Assessorato alla Sanita: Assessore (Councilman): Professor Angelo Montemarano
Mail Address: Regione Campania - Assessorato alla Sanita', Centro Direzionale -
Isola C3, 80143 Napoli
 - Assessorato all'Ambiente: Assessore (Councilman): Professor Walter Ganapini
Mail Address: Via De Gasperi, 28 - 80134 Napoli
- The Naples PHE Phase I data summary for water, soil and soil gas environmental sampling, the nine study area map, the summary of the USEPA methods that were used to analyze the samples along with their respective method detection limits, and translated cover letter was emailed to the three official Italian points of contact and the U.S. Consulate on 9 January 2009. Expect the Final Phase I report, including regional air sampling, Phase I Executive Summary, SRE, conclusions and recommendations to be completed and available for sharing in March 2009
- Three local authorities have recently opened investigations with respect to claims of substandard drinking water in the Campania Region: a Prosecutor in the Province of Caserta and the two local health departments for the Provinces of Naples and Caserta. We are cooperating with these investigations, with the assistance and counsel of the U.S. Consulate.

5.3.3 *Enduring Processes*

As a result of our proactive approach to PHE findings to date, the following enduring processes have been, or will be, implemented to protect the health of our personnel now and into the future.

- NLSZs limiting rental access to housing areas with demonstrated unacceptable levels of health risk due to tap and ground water contamination
- Directive issued to use only “bottled water” for all ingestion purposes (drinking, food preparation/cooking, ice-making, and brushing teeth)
- Lease clause requiring landlords to provide only U.S. Army Veterinary Command approved containerized water service
- Only homes with proven connection to the municipal water supply or with certified legal wells (none certified to date) are available to lease through NSA Naples Housing
- Lease clauses now require landlords to clean and sanitize all water holding tanks and distribution systems prior to new lease and every six months thereafter
- Institution of an EHIC at Naval Hospital Naples
- Data sharing process stood up with host nation public health officials
- Creation and maintenance of NSA Naples Health Awareness website – a central repository for up to date information pertaining to the PHE
- Creation of a bi-lingual Environmental Protection Specialist position at U.S. Naval Hospital Naples (in progress)
- Creation of a random tap water testing capability for long term surveillance at rental home on the economy
- Creation of a NSA Naples Housing Site database based on information acquired from a hand-held Global Positioning System (GPS) that is being used to develop/support a Geographic Information System (GIS) database (in progress)

These and other planned initiatives have fundamentally changed the way we screen, evaluate, and list houses for rent on the economy.

5.4 **Additional Recommendations:**

5.4.1 *Lack of USN and Department of Defense (DoD) Overseas Public Health Policy*

Currently, for USN and DoD, there is no overseas “public health” policy, to address health hazard exposure and evaluation from environmental conditions (to include background conditions), such as exist in Naples, Italy for our military and civilian personnel and their dependents.

While there have been attempts in the past, (e.g., Atsugi Incinerator) to draft a DoD policy (e.g., Assistant Secretary of the Navy's Office for Environment and Safety (ASN (E&S)) that would require the services to conduct health risk assessments where, in the opinion of their medical departments, a public health risk exists from environmental conditions (not applicable to combat or peacekeeping assignments), none has been promulgated.

We strongly support such an initiative and encourage USN and DoD to accelerate the development and implementation of this policy. This will provide an equitable standard of health surveillance and risk reduction as applied to our personnel in the U.S., one they have come to expect. It will also provide a framework approach to dealing with Naples-like conditions thus avoiding the problems experienced by all USN stakeholders throughout the Naples PHE.

5.4.2 Lack of USN and Department of Defense (DoD) Overseas Public Health Policy for Enduring Base Siting Process

Currently, for USN and DoD, there is no overseas public health policy for siting of future or existing enduring bases, to address health hazard exposures and evaluation from environmental conditions (to include background conditions), such as exist in Naples, Italy for our military and civilian personnel and their dependents.

While some limited environmental sampling and analysis did occur prior to relocating CNRE to Naples, no integrated and systematic approach, or metrics, exist to evaluate significant risks or total risks such as:

- Public health and environmental risks, on and off base
- Crime and violence
- Traffic safety
- Quality of life issues

We strongly support such an initiative and encourage USN and DoD to accelerate the development and implementation of this policy. This will provide an equitable standard of risk management and risk reduction as applied to our personnel in the U.S., one they have come to expect. It will also provide a framework approach to dealing with base siting thus avoiding some of the problems now experienced at Naples.

5.5 Summary

In this section we have provided the framework used by USN Line Risk Managers in their difficult task of determining an appropriate risk reduction strategy for the health risks in Naples. We encourage the continued use of this framework that has been set forth and endorsed by the 1997 Presidential/Congressional Commission on Risk Assessment and Risk Management. This unique framework is systematic and comprehensive in that it addresses the various contaminants, media, and sources of exposure associated with the health risk, public values and perceptions, as well as ethical, legal and political issues that should be considered before reaching a risk-management decision. We believe continuing to follow this framework will result in an enduring plan of action which is protective of public health, mitigates and prevents adverse human health effects resulting from exposure to identified health risks in Naples, and is responsive to the community health concerns of our USN personnel.

5.6 References

Volume 2, Risk Assessment and Risk Management in Regulatory Decision-Making; Commission on Risk Assessment and Risk Management, March 1997.

SECTION 6 – CONCLUSIONS AND RECOMMENDATIONS

6.1 The Phase I SRE Process

6.1.1 Purpose of the Phase I SRE

The purpose of this SRE was to determine:

- Whether or not exposure to surface soil, indoor air, tap water, and ambient air posed an unacceptable risk to USN personnel, based on USEPA and USN risk assessment guidelines;
- If additional investigations are necessary to ensure the safety and well being of USN personnel residing in Campania; and
- Data quality objectives and the scope of such investigations (e.g., number and locations of sample collection, analytical methods that should be pursued, et cetera).

6.1.2 Summary of the Phase I SRE Process

One hundred and thirty economy homes (separated into nine geographic study areas) and 10 U.S. Government-related sites were sampled for soil, soil gas, tap water, and irrigation water (although not all media were sampled at all locations). Noncancer and cancer health risks were calculated by comparing media concentrations to standard USEPA 30-year residential RSLs. Repeated ambient air samples were collected over a 30-day period (i.e., July 7, 2008 – August 8, 2008) from the following nine semi-permanent sampling locations:

- Study Area 1 – NATO Site
- Study Area 2 – U.S. Consulate
- Study Area 3 – Capodichino
- Study Area 4 – Carney Park (This facility is located within Study Area 1 but was used to evaluate air for Study Area 4)
- Study Area 5 – Lago Patria Receiver Site/Parco Artemide
- Study Area 6 – Gricignano Support Site
- Study Area 7 – Parco Eva (USN – Leased Parco)
- Study Area 8 – Villa (Home leased by the USN for the PHE)
- Study Area 9 – Parco Le Ginestre (USN – Leased Parco)

In general, the environmental samples were analyzed for:

- Dioxin/furans
- SVOCs
- VOCs
- Pesticides and PCBs
- Inorganics
- Bacteriological parameters (tap water samples only)

- Radiological parameters (tap water samples only)⁷
- Aldehydes and ketones (air samples only)
- Nitrates (tap water samples only)
- PM₁₀, PM₁₀ metals, CO, mercury vapor, NO_x, ozone, and sulfur dioxide (air samples only)

6.2 Conclusions

The conclusions from this SRE are presented below and focus on the key components of the evaluation.

6.2.1 Conclusions for the 130 Residences Located on the Economy

1. Concentrations of chemicals in tap water (specifically, tetrachloroethene, fecal coliforms, total coliforms [including fecal coliform and *E. coli*], and nitrate) were responsible for the majority of the risks. The risks for soil and soil gas were typically acceptable (with a few exceptions). See [Table 4-3](#) and [Figures 4-6](#) (soil), [4-7](#) (soil gas), [4-8](#) (tap water – ingestion+inhalation), and [4-9](#) (tap water – inhalation only). The following grid identifies chemicals exceeded RSLs and/or USMCLs (USMCLs apply to tap water only):

Media:	Soil	Soil Gas	Tap Water from a Public Water Supply	Tap Water from a Private Well or Unknown Source
Chemical:	<ul style="list-style-type: none"> • Total dioxin/furans (2,3,7,8-TCDD TEQs) • Total carcinogenic PAHs (BaP TEQs) 	<ul style="list-style-type: none"> • Chloroform • Naphthalene • Tetrachloroethene • Trichloroethene 	<ul style="list-style-type: none"> • Copper • Lead • Fecal coliforms • Nitrate • Tetrachloroethene • THMs • Thallium • Total coliforms (including fecal coliform and <i>E. coli</i>) • Total dioxin/furans (2,3,7,8-TCDD TEQs) 	<ul style="list-style-type: none"> • Copper • Carbon tetrachloride • Lead • Fecal coliforms • Nitrate • Tetrachloroethene • THMs • Total coliforms (including fecal coliform and <i>E. coli</i>) • Total dioxin/furans (2,3,7,8-TCDD TEQs)

2. Of the 130 residences sampled on the economy, the following were identified as having unacceptable risks (see [Table 4-3](#) and [Figures 4-4](#) and [4-5](#)):
 - Tap Water via Ingestion+Inhalation Exposure Scenario – 48 of the 130 residences were unacceptable
 - Tap Water via Inhalation-Only Exposure Scenario – 41 of the 130 residences were unacceptable.
3. Study Area 8 had the highest number of residences with unacceptable risks (see [Table 4-3](#) and [Figures 4-4](#) and [4-5](#)):
 - Tap Water via Ingestion+Inhalation Exposure Scenario – 28 of the 38 residences had unacceptable risks
 - Tap Water via Inhalation-Only Exposure Scenario – 26 of the 38 residences had unacceptable risks.

⁷ Risks for radionuclides were not computed as part of the Phase I SRE (see section 4.1 for the rationale).

4. No residences were identified in the following Study Areas with unacceptable risks (see [Table 4-3](#) and [Figures 4-4](#) and [4-5](#)):
 - Study Area 1 – (21 residences sampled)
 - Study Area 3 – (5 residences sampled)
 - Study Area 4 – (3 residences sampled)
 - Study Area 9 – (2 residences sampled)
5. Of the 94 residences sampled on the economy that appear to obtain their tap water from a public source, the following were identified as having unacceptable risks (see [Table 4-3](#)):
 - Based on the Tap Water via Ingestion+Inhalation Exposure Scenario – 12 of the 94 residences had unacceptable risks due to concentrations of chemicals in tap water (see [Figure 4-8](#)).
 - Based on the Tap Water via Inhalation-Only Exposure Scenario – 7 of the 94 the residences had unacceptable risks due to concentrations of chemicals in tap water (see [Figure 4-9](#)).
6. Of the 36 residences sampled on the economy that obtain their tap water from a private well or unknown source, the following were identified as having unacceptable risks (see [Table 4-3](#)):
 - Based on the Tap Water via Ingestion+Inhalation Exposure Scenario – 30 of the 36 residences had unacceptable risks due to concentrations of chemicals in tap water (see [Figure 4-8](#)).
 - Based on the Tap Water via Inhalation-Only Exposure Scenario – 29 of the 36 the residences had unacceptable risks due to concentrations of chemicals in tap water (see [Figure 4-9](#)).
7. Tetrachloroethene in tap water was responsible for unacceptable risks at 16 of the 48 residences with unacceptable risks, the majority occurring in Study Area 8. However, tetrachloroethene in tap water was also frequently detected at concentrations exceeding the RSL but below the USN's risk-management criteria for unacceptable risk. This was especially frequent for public water in Study Areas 1 and 2 (see [Tables B-3](#) and [B-4](#) in [Appendix B](#) and [Figures 4-19](#) and [4-20](#)).
 - Of the 36 residences sampled on the economy that obtain their tap water from a private well or unknown source, tetrachloroethene was detected at concentrations exceeding the RSL at the following locations (see [Table B-4](#) in [Appendix B](#)):
 - Based on the Tap Water via Ingestion+Inhalation Exposure Scenario – 25 of the 39 samples (36 tap water samples and three tap water resamples were collected as part of Phase I) had tetrachloroethene concentrations exceeding the RSL (see [Figure 4-19](#)).
 - Study Area 1 – (1 of 3 samples exceeded the RSL)
 - Study Area 2 – (No private wells provided tap water to the residences sampled in this area)
 - Study Area 3 – (No private wells provided tap water to the residences sampled in this area)
 - Study Area 4 – (No private wells provided tap water to the residences sampled in this area)
 - Study Area 5 – (2 of 8 samples exceeded the RSL)
 - Study Area 6 – (1 of 1 sample exceeded the RSL)
 - Study Area 7 – (2 of 2 samples exceeded the RSL)
 - Study Area 8 – (19 of 25 samples exceeded the RSL)

- Study Area 9 – (No private wells provided tap water to the residences sampled in this area)
- Based on the Tap Water via Inhalation-Only Exposure Scenario – 17 of the 39 samples (36 tap water samples and three tap water resamples were collected as part of Phase I) had tetrachloroethene concentrations exceeding the RSL (see [Figure 4-20](#)).
 - Study Area 1 – (0 of 3 samples exceeded the RSL)
 - Study Area 2 – (No private wells provided tap water to the residences sampled in this area)
 - Study Area 3 – (No private wells provided tap water to the residences sampled in this area)
 - Study Area 4 – (No private wells provided tap water to the residences sampled in this area)
 - Study Area 5 – (2 of 8 samples exceeded the RSL)
 - Study Area 6 – (0 of 1 sample exceeded the RSL)
 - Study Area 7 – (2 of 2 samples exceeded the RSL)
 - Study Area 8 – (13 of 25 samples exceeded the RSL)
 - Study Area 9 – (No private wells provided tap water to the residences sampled in this area)
- Of the 94 residences sampled on the economy that appear to obtain their tap water from a public source, tetrachloroethene was detected at concentrations exceeding the RSL at the following locations (see [Table B-3](#) in [Appendix B](#)):
 - Based on the Tap Water via Ingestion+Inhalation Exposure Scenario – 20 of the 99 samples (94 tap water samples and five tap water resamples were collected as part of Phase I) had tetrachloroethene concentrations exceeding the RSL (see [Figure 4-19](#)).
 - Study Area 1 – (5 of 19 samples exceeded the RSL)
 - Study Area 2 – (7 of 8 samples exceeded the RSL)
 - Study Area 3 – (2 of 6 samples exceeded the RSL)
 - Study Area 4 – (0 of 3 samples exceeded the RSL)
 - Study Area 5 – (0 of 26 samples exceeded the RSL)
 - Study Area 6 – (1 of 14 samples exceeded the RSL)
 - Study Area 7 – (3 of 7 samples exceeded the RSL)
 - Study Area 8 – (2 of 14 samples exceeded the RSL)
 - Study Area 9 – (0 of 2 samples exceeded the RSL)
 - Based on the Tap Water via Inhalation-Only Exposure Scenario – Three of the 99 samples (94 tap water samples and five tap water resamples were collected as part of Phase I) had concentrations of tetrachloroethene in tap water at concentrations exceeding the RSL (see [Figure 4-20](#)).
 - Study Area 1 – (0 of 19 samples exceeded the RSL)
 - Study Area 2 – (0 of 8 samples exceeded the RSL)
 - Study Area 3 – (0 of 6 samples exceeded the RSL)
 - Study Area 4 – (0 of 3 samples exceeded the RSL)
 - Study Area 5 – (0 of 26 samples exceeded the RSL)

- Study Area 6 – (0 of 14 samples exceeded the RSL)
 - Study Area 7 – (2 of 7 samples exceeded the RSL)
 - Study Area 8 – (1 of 14 samples exceeded the RSL)
 - Study Area 9 – (0 of 2 samples exceeded the RSL)
8. Fecal coliform and total coliforms (including fecal coliform and *E. coli*) were detected frequently at concentrations exceeding the USMCL at 35 of the 130 residences. These exceedances were most often observed in Study Area 8, with a very limited number of exceedances in Study Areas 5, 6, and 7 (see [Table 4-3](#) and [Figures 4-17](#) and [4-21](#)).
- Of the 36 residences sampled on the economy that obtain their tap water from a private well or unknown source, fecal coliform and total coliforms (including fecal coliform and *E. coli*) were detected at concentrations exceeding USMCLs at 28 of the residences (see [Table 4-3](#) and [Figures 4-17](#) and [4-21](#)).
 - Of the 94 residences sampled on the economy that obtain their tap water from a public source, fecal coliform and total coliforms (including fecal coliform and *E. coli*) were detected at concentrations exceeding USMCLs at seven of the residences (see [Table 4-3](#) and [Figures 4-17](#) and [4-21](#)).
9. Nitrate (as NO₃⁻) was detected at concentrations exceeding the USMCL at 32 of the 130 residences. These exceedances were most often observed in Study Area 8, with a very limited number of exceedances in Study Areas 5, 6, and 7 (see [Appendices B-3](#) and [B-4](#) and [Figure 4-18](#)).
- Of the 36 residences sampled on the economy that obtain their tap water from a private well or unknown source, nitrate (as NO₃⁻) was detected at concentrations exceeding the USMCL at 28 of the residences (see [Tables B-3](#) and [B-4](#) in [Appendix B](#) and [Figure 4-18](#)).
 - Of the 94 residences sampled on the economy that obtain their tap water from a public source, nitrate (as NO₃⁻) was detected at concentrations exceeding the USMCL at four of the residences (see [Tables B-3](#) and [B-4](#) in [Appendix B](#) and [Figure 4-18](#)).
10. Arsenic, a natural background chemical which is common in volcanic areas such as Naples, was detected in every soil and tap water sample at concentrations exceeding the RSL (see [Figures 4-1](#) and [4-2](#), respectively).
11. Five ambient air samples were collected on a random schedule from each of the nine air monitoring stations (i.e., a total of 45 samples were collected) over approximately 30 days. Concentrations of chemicals in ambient air frequently exceeded RSLs, however, they were not significantly different than ambient air concentrations measured in major U.S. cities during 2007 (USEPA, 2007). There were five chemicals which exceeded background levels throughout the study areas:
- Study Area 1: 1,2-Dichloropropane
 - Study Area 2: Benzene and 1,2-dichloropropane
 - Study Area 3: Dieldrin and 1,2-dichloropropane
 - Study Area 4: 1,2-Dichloropropane
 - Study Area 5: 1,2-Dichloropropane
 - Study Area 6: 1,2-Dichloropropane and total dioxin/furans (2,3,7,8-TCDD TEQs)
 - Study Area 7: 1,2-Dichloropropane, dieldrin, and total dioxin/furans (2,3,7,8-TCDD TEQs)
 - Study Area 8: 1,2-Dichloropropane

- Study Area 9: Chloromethane and 1,2-dichloropropane
12. These results are considered preliminary because they only represent a 30-day period during the summer months. None of the concentrations exceeded the NAAQS.

6.2.2 Conclusions for the U.S. Government-Related Sites

1. Tap Water – Concentrations of chemicals in tap water (specifically, lead, nickel, naphthalene, tetrachloroethene, and total coliforms [including fecal coliform and *E. coli*]) were responsible for the majority of the risks. The following U.S. Government-related sites had unacceptable concentrations of chemicals in tap water:
 - Parco Artemide
 - Lead – maximum NCEF = 1.4
 - Nickel – maximum NCEF = 11.4
 - Naphthalene – maximum CEF = 48.1
 - Parco Eva
 - Nickel – maximum NCEF = 1.2
 - Parco Le Ginestre
 - Tetrachloroethene – maximum CEF = 22.8
 - Total coliforms (including fecal coliform and *E. coli*) – exceeded the USMCL
 - NAVFAC-Leased Homes
 - Total coliforms (including fecal coliform and *E. coli*) – exceeded the USMCL
2. Soil – The risks for soil were typically acceptable. The following U.S. Government-related sites had unacceptable concentrations of total carcinogenic PAHs (BaP TEQs) in soil:
 - NAVFAC-Leased Homes – maximum CEF = 65.6
 - Gricignano Support Site – maximum CEF = 25.7
 - Capodichino – maximum CEF = 12.0
 - JFC NATO – maximum CEF = 13.3
 - U.S. Consulate – maximum CEF = 17.2
3. Soil Gas – The risks for soil gas were typically acceptable. The following U.S. Government-related sites had unacceptable concentrations of tetrachloroethene in soil gas:
 - Parco Le Ginestre – maximum CEF = 171.7
4. Irrigation Water – The following U.S. Government-related sites had unacceptable concentrations of chemicals in irrigation water:
 - Parco Le Ginestre
 - Bis(2-ethylhexyl)phthalate – exceeded the USMCL
 - Fecal coliform – exceeded the USMCL
 - Nitrate – exceeded the USMCL and maximum NCEF = 1.1 USMCL
 - Tetrachloroethene – maximum CEF = 10.1
 - Total coliforms (including fecal coliform and *E. coli*) – exceeded the USMCL
 - Uranium – exceeded the USMCL
 - Zinc – maximum NCEF = 1.1
 - Gricignano Support Site
 - Nitrate – exceeded the USMCL

- Nitrite – exceeded the USMCL
 - Total coliforms (including fecal coliform and *E. coli*) – exceeded the USMCL
 - Total dioxin/furans (2,3,7,8-TCDD TEQs) – maximum CEF = 10.4
 - Capodichino
 - Nitrate – exceeded the USMCL
 - Carney Park
 - Nitrate – exceeded the USMCL
 - THMs (chloroform) – maximum CEF = 29.1
 - Total coliforms (including fecal coliform and *E. coli*) – exceeded the USMCL
5. The following grid identifies chemicals that exceeded RSLs and/or USMCLs (USMCLs apply to tap water and irrigation wells):

Soil	Soil Gas	Tap Water from a Public Water Supply	Irrigation Wells
<ul style="list-style-type: none"> • Total dioxin/furans (2,3,7,8-TCDD TEQs) • Total carcinogenic PAHs (BaP TEQs) 	<ul style="list-style-type: none"> • Chloroform • Tetrachloroethene 	<p>RSL Exceedances</p> <ul style="list-style-type: none"> • Lead • Nickel • Naphthalene • Tetrachloroethene • Individual THMs • Total dioxin/furans (2,3,7,8-TCDD TEQs) <p>USMCL Exceedances</p> <ul style="list-style-type: none"> • Total coliforms (including fecal coliform and <i>E. coli</i>) 	<p>RSL Exceedances</p> <ul style="list-style-type: none"> • Tetrachloroethene • THMs (chloroform) • Total dioxin/furans (2,3,7,8-TCDD TEQs) • Trichloroethene • Zinc <p>RSL and USMCL Exceedances</p> <ul style="list-style-type: none"> • Bis(2-ethylhexyl)phthalate • Nitrate <p>USMCL Exceedances</p> <ul style="list-style-type: none"> • Fecal Coliform • Nitrite • Total coliforms (including fecal coliform and <i>E. coli</i>) • Uranium

6. [Table 6-1](#), which can be found in the tables section, presents the maximum-detected EFs in soil (if concentrations exceeded RSLs) at each U.S. Government-related site. The following grid identifies the number of soil samples per U.S. Government-related site that exceeded RSLs:

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAc-Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	U.S. Consulate
Total dioxin/furans (2,3,7,8-TCDD TEQs)	0	0	0	0	0	0	--	0	3	1
Total carcinogenic PAHs (BaP TEQs)	1	0	0	1	1	2	--	1	7	1
Number of Samples Collected	10	12	11	6	10	10	0	10	9	1

7. [Table 6-2](#), which can be found in the tables section, presents the maximum-detected exceedance factors in soil gas (if the concentrations exceeded the RSLs) at each U.S. Government-related site. The following grid identifies the number of soil gas samples per U.S. Government-related site that exceeded RSLs:

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC-Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	U.S. Consulate
Chloroform	0	0	1	0	--	--	--	--	--	--
Tetrachloroethene	0	2	6	0	--	--	--	--	--	--
Number of Samples Collected	10	10	9	6	0	0	0	0	0	0

8. [Table 6-3](#), which can be found in the tables section, presents the maximum-detected EFs in tap water obtained from public water supply (if the concentrations exceeded the RSLs) at each U.S. Government-related site. The following grid identifies the number of samples per U.S. Government-related site that exceeded RSLs or USMCLs (only total coliforms).

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC-Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	U.S. Consulate
Lead	2	0	0	0	0	0	0	0	0	0
Nickel	3	1	0	0	0	0	0	0	0	0
Naphthalene	1	0	0	0	0	0	0	0	0	0
Tetrachloroethene	0	0	1	1	0	0	0	2	0	4
THMs	0	0	8	1	7	2	0	3	0	4
Total coliforms (including fecal coliform and <i>E. coli</i>)	0	0	1	1	0	0	0	0	0	0
Total dioxin/furans (2,3,7,8-TCDD TEQs)	0	2	2	0	1	0	0	0	0	1
Number of Samples Collected	10	10	10	6	10	10	3	3	3	4

9. Table 6-4, which can be found in the tables section, presents the maximum-detected exceedance factors in irrigation water (if the concentrations exceeded the RSLs) at each U.S. Government site. The following grid identifies the number of samples per a U.S. Government-related site that exceeded RSLs and/or USMCLs:

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC-Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	U.S. Consulate
Bis(2-ethylhexyl)phthalate	--	--	1	--	0	0	--	0	--	--
Fecal coliform	--	--	1	--	0	0	--	0	--	--
Nitrate	--	--	1	--	9	1	--	1	--	--
Nitrite	--	--	0	--	1	0	--	0	--	--
Tetrachloroethene	--	--	1	--	5	1	--	1	--	--
THMs	--	--	0	--	0	1	--	1	--	--
Total coliforms (including fecal coliform and <i>E. coli</i>)	--	--	1	--	5	0	--	1	--	--
Total dioxin/furans (2,3,7,8-TCDD TEQs)	--	--	1	--	3	0	--	1	--	--
Trichloroethene	--	--	0	--	0	1	--	0	--	--
Uranium	--	--	1	--	0	0	--	0	--	--
Zinc	--	--	1	--	--	--	--	--	--	--
Number of Samples Collected	0	0	1	0	9	1	0	2	0	0

6.3 Recommendations

The following recommendations are based on the results of the Phase I SRE:

1. Continue to regularly inform USN personnel and the Italian Government of the results of the PHE using multiple communication outlets (e.g., Website, All Hands Emails, Panorama newspaper, town hall meetings, reports, Naval Hospital Environmental Information Center, et cetera.)
2. Require that all residences on the NSA Naples Housing List provide municipal water as the sole tap water supply. Well water should only be allowed for tap water use in cases where: (1) municipal water is not available and (2) the well was legally installed. All other residences should be removed from the Housing List.
3. Implement a long-term, random tap water monitoring program for microorganisms and VOCs for all occupied residences on the Housing List.
4. Require regular (e.g., once every six months) inspection, cleaning, disinfection and flushing of household water supply systems.
5. Encourage future residents to lease homes in study areas where tap water, soil, soil gas, and/or ambient air had acceptable risks (e.g., Recommended Economy Housing Areas) (See Figure 6-1). Discourage or eliminate future leasing of homes in study areas where tap water, soil, soil gas, and/or ambient air had unacceptable risks (e.g., New Lease Suspension Zones).

6. Return to Phase I locations that had exceedances of RSLs for VOCs in tap water and/or soil gas and collect sub-slab soil gas samples using Summa Canisters to determine whether or not vapor intrusion is of concern.
7. Implement a program to track and regularly monitor the status of residences where unacceptable risks were mitigated and, therefore, the residence is still occupied or will potentially be occupied by USN personnel in the future. The USN should focus on verifying that institutional and/or engineering controls that have been implemented (assuming that the residence has not been remediated to acceptable risk levels) remain in place and are continuing to work as designed to protect human health.

The following recommendations focus on sample collection and analyses for Phase II of the PHE:

1. Collect samples from additional residences located in the study areas to improve the spatial/geographical distribution/coverage of residences that were sampled. The number of locations that should be sampled should be based on multiple lines of evidence including:
 - a. Credible data regarding the location of trash and/or chemical dump sites that has been discovered since Phase I
 - b. Power analysis of the chemical results to ensure that an Alpha of 5% and Beta of 20% are achieved for each medium in each study area
 - c. Spatial/geographical distribution/coverage analysis of residences to ensure that samples have been collected adequately throughout each study area
2. Consider adding another Study Area (i.e., Study Area 10) in the area located east of Study Area 3 where additional USN personnel live (see [Figure 6-2](#)). Alternatively, residents in this area could be required to relocate to one of the study areas that were evaluated in Phase I of the PHE and had acceptable risks.
3. Discontinue collecting and analyzing tap water samples for SVOCs and Pesticides/PCBs. SVOCs, specifically phthalates, were detected infrequently in tap water samples. Pesticides and PCBs were not detected in any of the tap water samples.
4. Discontinue collecting soil samples within any of the study areas except in cases where a power analysis of the chemical results (Alpha of 5% and Beta of 20%) indicates that more samples should be collected. Arsenic, total carcinogenic PAHs (BaP TEQs), and total dioxin/furans (2,3,7,8-TCDD TEQs) were the only chemicals detected at concentrations exceeding their RSLs. The concentrations of arsenic in soil are consistent with natural background. Concentrations of total carcinogenic PAHs (BaP TEQs) and total dioxin/furans (2,3,7,8-TCDD TEQs) exceeding RSLs, were observed in a few locations in the study areas. However, the risks associated with these concentrations typically were acceptable and there is no spatial pattern/correlation suggesting that these exceedances are associated with deposition resulting from burning of trash.
5. Discontinue collecting passive soil gas samples. In their place, collect sub-slab soil gas samples using Summa Canisters at all sample locations included in Phase II. If sub-slab soil gas samples cannot be collected then, near-slab, shallow soil gas samples should be collected.
6. Continue the current ambient air monitoring program.

6.4 References

- USEPA. 1989. Risk Assessment Guidance for Superfund: Human Health Evaluation Manual Part A. Interim Final. Office of Emergency and Remedial Response. Washington, D.C. 9285.701A. USEPA/540/1-89/002.
- USEPA. 2007. USEPA. 2007. U.S. EPA Air Toxics Database: San Diego County, California (211 Records) 2. Los Angeles County, California (458 Records) 3. King County (Seattle), Washington (137 Records) 4. Harris County (Houston), Texas (1129 Records) 5. Ellis County (Midlothian), Texas (234 Records) 7. Washington DC (150 Records).
http://www.epa.gov/aqspubl1/annual_summary.html.
- Tetra Tech. 2008a. Environmental Testing Support Assessment Work Plan. Naval Support Activity Naples. Naples, Italy. Tetra Tech NUS. June 2008.
- Tetra Tech. 2008b. Environmental Testing Support Assessment Field Sampling Plan. Naval Support Activity Naples. Naples, Italy. Tetra Tech NUS. June 2008.
- Tetra Tech. 2009. Phase I Environmental Testing Support Assessment Report: Volume 1. Naval Support Activity Naples. Naples, Italy. Tetra Tech NUS. March 2009.

TABLES

Table 2-2: Number of Samples Collected by Media and Study Area at U.S. Government-Related Facilities

Location (Study Area)	Soil	Soil Gas	Tap Water	Irrigation Water	Ambient Air
Parco Artimide (5)	10	10	15	0	0
Parco Eva (7)	12	10	10	0	5
Parco Le Ginestre (9)	11	9	13	1	5
NAVFAC-Leased Homes (1)	6	6	9	0	0
Gricignano Support Site (6)	10	0	11	9	5
Capodichino (3)	10	10	10	1	5
Lago Patria Receiver Site (5)	0	0	3	0	5
Carney Park ¹ (1)	10	0	3	2	5
JFC NATO Site (1)	9	0	3	0	5
U.S. Consulate (2)	1	0	4	0	5
TOTAL NUMBER SAMPLES COLLECTED:	79	45	81	13	40

Notes:

Five air samples were collected from the U.S. government-leased Villa in Area 8.

¹Used to evaluate air in Study Area 4

Table 2-3: 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxicity Equivalency Factors

CAS Number	Chemical	2,3,7,8-TCDD Toxicity Equivalency Factor
35822-46-9	1,2,3,4,6,7,8-HpCDD	0.01
67562-39-4	1,2,3,4,6,7,8-HpCDF	0.01
39227-28-6	1,2,3,4,7,8-HxCDD	0.1
70648-26-9	1,2,3,4,7,8-HxCDF	0.1
55673-89-7	1,2,3,4,7,8,9-HpCDF	0.01
57653-85-7	1,2,3,6,7,8-HxCDD	0.1
57117-44-9	1,2,3,6,7,8-HxCDF	0.1
40321-76-4	1,2,3,7,8-PeCDD	1.0
57117-41-6	1,2,3,7,8-PeCDF	0.03
19408-74-3	1,2,3,7,8,9-HxCDD	0.1
72918-21-9	1,2,3,7,8,9-HxCDF	0.1
60851-34-5	2,3,4,6,7,8-HxCDF	0.1
57117-31-4	2,3,4,7,8-PeCDF	0.3
1746-01-6	2,3,7,8-TCDD	1
51207-31-9	2,3,7,8-TCDF	0.1
3268-87-9	1,2,3,4,6,7,8,9-OCDD	0.0003
39001-02-0	1,2,3,4,6,7,8,9-OCDF	0.0003
37871-00-4	TOTAL HpCDD	0
38998-75-3	TOTAL HpCDF	0
34465-46-8	TOTAL HxCDD	0
55684-94-1	TOTAL HxCDF	0
36088-22-9	TOTAL PeCDD	0
30402-15-4	TOTAL PeCDF	0
41903-57-5	TOTAL TCDD	0
55722-27-5	TOTAL TCDF	0

Note:

Source: Van den Berg, M., et al. (2006). The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds. *Toxicological Sciences* 93(2), 223–241 (2006).

Table 2-4: Benzo(a)pyrene Toxicity Equivalency Factors

CAS Number	Chemical	Benzo(a)pyrene Toxicity Equivalency Factor
50-32-8	Benzo(a)pyrene	1.0
56-55-3	Benzo(a)anthracene	0.1
205-99-2	Benzo(b)fluoranthene	0.1
207-08-9	Benzo(k)fluoranthene	0.01
218-01-9	Chrysene	0.001
53-70-3	Dibenz(a,h)anthracene	1.0
193-39-5	Indeno(1,2,3-cd)pyrene	0.1

Note:

Source: Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons. U.S. Environmental Protection Agency, Office of Research and Development, Office of Health and Environmental Assessment, Washington, DC, EPA/600/R-93/089 (NTIS PB94116571).

Table 3-1: USEPA RSLs and Maximum Naples Background for Soil

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/kg)								Maximum Naples Background (mg/kg)
	Cancer Risk Goal = 1E-06				Noncancer HI Goal = 1				
	Total	Ingestion	Inhalation	Dermal	Total	Ingestion	Inhalation	Dermal	
Aldehydes									
Benzaldehyde					7800	7800			
Butyraldehyde									
Crotonaldehyde									
Hexaldehyde									
M-tolualdehyde									
Methacrylaldehyde									
N-valeraldehyde									
Propionaldehyde									
Alkane Hydrocarbons									
Octane									
Pentadecane									
Tridecane									
Undecane									
Anions									
Chloride									
Cyanide					1600	1600			
Fluoride									
Nitrate (measured as NO3-)					572000	572000			
Nitrite (measured as NO2-)					25740	25740			
Phosphate									
Sulfate									
Dioxins/Furans									
1,2,3,4,6,7,8-HpCDD									
1,2,3,4,6,7,8-HpCDF									
1,2,3,4,7,8,9-HpCDF									
1,2,3,4,7,8-HxCDD									
1,2,3,4,7,8-HxCDF									
1,2,3,6,7,8-HxCDD									
1,2,3,6,7,8-HxCDF									
1,2,3,7,8,9-HxCDD									
1,2,3,7,8,9-HxCDF									
1,2,3,7,8-PeCDD									
1,2,3,7,8-PeCDF	0.00011	0.00014	3.3	0.00045					
2,3,4,6,7,8-HxCDF									
2,3,4,7,8-PeCDF	0.000011	0.000014	0.33	0.000045					
2,3,7,8-TCDD	0.0000045	0.0000049	0.087	0.000052	0.000072	0.000078		0.00093	
2,3,7,8-TCDF	0.000032	0.000043	1	0.00013					
OCDD	0.013	0.014	330	0.15					
OCDF	0.011	0.014	330	0.045					
TOTAL HPCDD									
TOTAL HPCDF									
TOTAL HXCDD									
TOTAL HXCDF									
TOTAL PECDD									
TOTAL PECDF									
TOTAL TCDD									
TOTAL TCDF									
Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	0.0000045	0.0000049	0.087	0.000052	0.000072	0.000078		0.00093	
Chlorine (as Cl2)									
Total Trihalomethanes									
Field Parameters									
Dissolved Oxygen									
Oxidation Reduction Potential									
Salinity									
Specific Conductance									
Temperature									
Total Dissolved Solids									

Table 3-1: USEPA RSLs and Maximum Naples Background for Soil

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/kg)								Maximum Naples Background (mg/kg)
	Cancer Risk Goal = 1E-06				Noncancer HI Goal = 1				
	Total	Ingestion	Inhalation	Dermal	Total	Ingestion	Inhalation	Dermal	
Total Solids									
Turbidity									
pH									
Inorganics									
Aluminum					77000	78000	7100000		86900
Antimony					31	31			42.8
Arsenic	0.39	0.43	770	4.5	22	23	43000	280	164
Barium					15000	16000	710000		1813
Beryllium	1400		1400		160	160	28000		
Cadmium (Diet)	1800		1800		70	78		700	10.6
Cadmium (Water)									
Chromium									579
Cobalt									36.6
Copper					3100	3100			3965
Iron					55000	55000			154600
Lead					400	400			2052
Manganese (Diet)									5923
Manganese (Water)					1800	1900	71000		
Mercury					6.7		6.7		2.66
Nickel					1600	1600			689
Selenium					390	390			1.9
Silver					390	390			8.132
Thallium					5.1	5.1			69
Tin					47000	47000			
Vanadium					550	550			187
Zinc					23000	23000			3211
Microorganisms									
Fecal Coliform									
Fecal Streptococcus									
Heterotrophic Plate Count									
Total Coliforms (including Fecal Coliform and E. Coli)									
PM-10									
Gravimetrics-PM10									
Pesticides									
4,4-DDD	2	2.7		8.4					
4,4-DDE	1.4	1.9		6					
4,4-DDT	1.7	1.9	34000	20	36	39		470	
Aldrin	0.029	0.038	680	0.12	1.8	2.3		8.4	
Chlordane	1.6	1.8	33000	14	35	39	990000	350	
Dieldrin	0.03	0.04	720	0.13	3.1	3.9		14	
Endosulfan I									
Endosulfan II									
Endosulfan Sulfate									
Endrin					18	23		84	
Endrin Aldehyde									
Heptachlor	0.11	0.14	2500	0.45	31	39		140	
Heptachlor Epoxide	0.053	0.07	1300	0.22	0.79	1		3.6	
Methoxychlor					310	390		1400	
Toxaphene	0.44	0.58	10000	1.8					
alpha-BHC	0.077	0.1	1800	0.32					
alpha-Chlordane									
beta-BHC	0.27	0.35	6200	1.1					
delta-BHC									
gamma-BHC (Lindane)	0.52	0.58	11000	4.6	21	23		210	
gamma-Chlordane	1.6	1.8	33000	14	35	39	990000	350	
Polychlorinated bi-phenyls									
Aroclor 1016	6.3	9.1	170000	21	3.9	5.5		14	
Aroclor 1016/1260	0.22	0.32	5800	0.72	3.9	5.5		14	

Table 3-1: USEPA RSLs and Maximum Naples Background for Soil

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/kg)								Maximum Naples Background (mg/kg)
	Cancer Risk Goal = 1E-06				Noncancer HI Goal = 1				
	Total	Ingestion	Inhalation	Dermal	Total	Ingestion	Inhalation	Dermal	
Aroclor 1221	0.17	0.32	0.78	0.72					
Aroclor 1232	0.17	0.32	0.78	0.72					
Aroclor 1242	0.22	0.32	5800	0.72					
Aroclor 1248	0.22	0.32	5800	0.72					
Aroclor 1254	0.22	0.32	5800	0.72	1.1	1.6			4
Aroclor 1260	0.22	0.32	5800	0.72					
Radionuclides									
Alpha Particles									
Beta Particles and Photon Emitters									
Uranium					230	230			
SVOCs									
1,1'-Biphenyl					3900	3900			
1,2,4,5-Tetrachlorobenzene					18	23			84
2,3,4,6-Tetrachlorophenol					1800	2300			8400
2,4,5-Trichlorophenol					6100	7800			28000
2,4,6-Trichlorophenol	44	58	1100000	180	61	78			280
2,4-Dichlorophenol					180	230			840
2,4-Dimethylphenol					1200	1600			5600
2,4-Dinitrophenol					120	160			560
2,4-Dinitrotoluene					120	160			560
2,6-Dichlorophenol									
2,6-Dinitrotoluene					61	78			280
2-Chloronaphthalene					6300	6300			
2-Chlorophenol					390	390			
2-Methylnaphthalene					310	310			
2-Methylphenol (o-Cresol)					3100	3900			14000
2-Nitrophenol									
3&4-Methylphenol					310	390			1400
3-Methylphenol					3100	3900			14000
3-Nitroaniline									
4,6-Dinitro-2-Methylphenol									
4-Bromophenylphenylether									
4-Chloro-3-Methylphenol									
4-Chloroaniline					240	310			1100
4-Methylphenol (p-Cresol)					310	390			1400
4-Nitroaniline									
4-Nitrophenol									
Acenaphthene					3400	4700			13000
Acenaphthylene									
Aniline	85	110		350	430	550	1400000		2000
Anthracene					17000	23000			64000
Atrazine	2.1	2.8		8.8	2100	2700			9800
Benzo(a)anthracene	0.15	0.2	12000	0.53					
Benzo(a)pyrene	0.015	0.02	1200	0.053					
Benzo(b)fluoranthene	0.15	0.2	12000	0.53					
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene	1.5	2	12000	5.3					
Bis(2-ethylhexyl)phthalate	35	46		140	1200	1600			5600
Butylbenzylphthalate					12000	16000			56000
Carbazole	24	32		100					
Chrysene	15	20	120000	53					
Di-n-butylphthalate					6100	7800			28000
Di-n-octylphthalate									
Dibenzo(a,h)anthracene	0.015	0.02	1100	0.053					
Dibenzofuran									
Diethylphthalate					49000	63000			220000
Dimethylphthalate									
Diphenylamine					1500	2000			7000
Fluoranthene					2300	3100			8600

Table 3-1: USEPA RSLs and Maximum Naples Background for Soil

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/kg)								Maximum Naples Background (mg/kg)
	Cancer Risk Goal = 1E-06				Noncancer HI Goal = 1				
	Total	Ingestion	Inhalation	Dermal	Total	Ingestion	Inhalation	Dermal	
Fluorene					2300	3100			8600
Hexachlorobenzene	0.3	0.4	7200	1.3	49	63			220
Hexachlorobutadiene	6.2	8.2	150000	26	61	78			280
Hexachlorocyclopentadiene					370	470	280000		1700
Hexachloroethane	35	46	830000	140	61	78			280
Indeno(1,2,3-c,d)pyrene	0.15	0.2	12000	0.53					
Naphthalene	3.9		3.9		150	1600	170		4300
Nitrobenzene					31	39	150		
Pentachlorobenzene					49	63			220
Pentachloronitrobenzene	1.9	2.5		7.8	180	230			840
Pentachlorophenol	3	5.3		6.7	1400	2300			3400
Phenanthrene									
Phenol					18000	23000	280000000		84000
Pyrene					1700	2300			6400
Total Carcinogenic PAHS (BaP TEQs)	0.015	0.02	1200	0.053					
o-Toluidine	2.7	3.5	65000	11					
TPH									
Tph (c03-c20)									
Tph (c08-c40)									
VOCs									
1,1,1,2-Tetrachloroethane	2	25	2.1		2300	2300			
1,1,1-Trichloroethane					9000	160000	9500		
1,1,2,2-Tetrachloroethane	0.59	3.2	0.72						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)					43000	2300000	44000		
1,1,2-Trichloroethane	1.1	11	1.2		310	310			
1,1-Dichloroethane	3.4	110	3.5		1100	16000	1200		
1,1-Dichloroethene					250	3900	260		
1,2,3-Trichlorobenzene									
1,2,3-Trichloropropane	0.091	0.091			470	470			
1,2,4-Trichlorobenzene	180	180			780	780			
1,2,4-Trimethylbenzene					67		67		
1,2-Dibromo-3-Chloropropane	0.0056	0.19	0.0058		5.1	16	7.6		
1,2-Dibromoethane	0.034	0.32	0.039		79	700	89		
1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)									
1,2-Dichlorobenzene					2000	7000	2800		
1,2-Dichloroethane	0.45	7	0.48		13000		13000		
1,2-Dichloropropane	0.93	18	0.98		17		17		
1,3,5-Trimethylbenzene									
1,3-Butadiene	0.077		0.077		2		2		
1,3-Dichlorobenzene									
1,3-Dichloropropane					1600	1600			
1,4-Dichlorobenzene	2.6	120	2.7		10000		10000		
2,2-Dichloropropane									
2-Butanone (methyl ethyl ketone)					28000	47000	67000		
2-Chlorotoluene					1600	1600			
2-Hexanone									
4-Chlorotoluene					5500	5500			
4-Isopropyltoluene									
4-Methyl-2-Pentanone					5300	6300	35000		
Acetaldehyde	11		11		89		89		
Acetone					61000	70000	440000		
Acetonitrile					870		870		
Acetophenone					7800	7800			
Acrolein					0.16	39	0.16		
Acrylonitrile	0.24	1.2	0.29		14	78	17		
Benzene	1.1	12	1.3		90	310	130		

Table 3-1: USEPA RSLs and Maximum Naples Background for Soil

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/kg)								Maximum Naples Background (mg/kg)
	Cancer Risk Goal = 1E-06				Noncancer HI Goal = 1				
	Total	Ingestion	Inhalation	Dermal	Total	Ingestion	Inhalation	Dermal	
Bis(2-Chloroethyl)ether	0.19	0.58	0.27						
Bis(chloromethyl)ether	0.00027	0.0029	0.0003						
Bromochloromethane									
Bromodichloromethane	10	10			1600	1600			
Bromoform	61	81	3000000	260	1200	1600		5600	
Bromomethane					7.9	110	8.5		
Carbon Disulfide					670	7800	730		
Carbon Tetrachloride	0.25	4.9	0.27		47	55	320		
Chlorobenzene					310	1600	390		
Chloroethane					15000		15000		
Chloroform	0.3	21	0.31		220	780	300		
Chloromethane	1.7	49	1.7		120		120		
Chloroprene					8.6	1600	8.7		
Cyclohexane					7200		7200		
Dibromochloromethane	5.8	7.6		24	1200	1600		5600	
Dibromomethane					780	780			
Dichlorodifluoromethane (Freon 12)					190	16000	190		
Ethylbenzene	5.7	58	6.4		3600	7800	6800		
Formaldehyde	250000		250000		12000	16000	14000000	56000	
Hexane					570	4700	650		
Isobutyl Alcohol					23000	23000			
Isophorone	510	670		2100	12000	16000	2800000000	56000	
Isopropylbenzene					2200	7800	3000		
Methyl Acetate					78000	78000			
Methyl tert-Butyl Ether	39	350	44		15000		15000		
Methylcyclohexane					3400		3400		
Methylene Chloride	11	85	12		1700	4700	2600		
Pentachloroethane									
Styrene					6500	16000	11000		
Tetrachloroethene	0.57	1.2	1.1		380	780	750		
Toluene					5000	6300	26000		
Trans-1,4-Dichloro-2-Butene									
Trichloroethene	2.8	49	3						
Trichlorofluoromethane					800	23000	820		
Vinyl Acetate					990	78000	1000		
Vinyl Chloride	0.06	0.093	0.17		74	230	110		
Xylenes, Total					600	16000	620		
cis-1,2-Dichloroethene					780	780			
cis-1,3-Dichloropropene									
m,p-Xylenes					600	16000	620		
n-Butylbenzene									
n-Propylbenzene									
o-Xylene					5300	160000	5400		
sec-Butylbenzene									
tert-Butylbenzene									
trans-1,2-Dichloroethene					110	1600	120		
trans-1,3-Dichloropropene									

Note:

HI - Hazard Index

Table 3-2: USEPA RSLs and MCLs for Tap Water

Chemicals (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/L)						USMCL (mg/L)
	Cancer Risk Goal = 1E-06			Noncancer HI Goal = 1			
	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	
Aldehydes							
Benzaldehyde				3.7	3.7		
Butyraldehyde							
Crotonaldehyde							
Hexaldehyde							
M-tolualdehyde							
Methacrylaldehyde							
N-valeraldehyde							
Propionaldehyde							
Alkane Hydrocarbons							
Octane							
Pentadecane							
Tridecane							
Undecane							
Anions							
Chloride							
Cyanide				0.73	0.73		0.2
Fluoride							4
Nitrate (measured as NO ₃ -)				255.2	255.2		44.3
Nitrite (measured as NO ₂ -)				12.21	12.21		3.29
Phosphate							
Sulfate							
Dioxins/Furans							
1,2,3,4,6,7,8-HpCDD							
1,2,3,4,6,7,8-HpCDF							
1,2,3,4,7,8,9-HpCDF							
1,2,3,4,7,8-HxCDD							
1,2,3,4,7,8-HxCDF							
1,2,3,6,7,8-HxCDD							
1,2,3,6,7,8-HxCDF							
1,2,3,7,8,9-HxCDD							
1,2,3,7,8,9-HxCDF							
1,2,3,7,8-PeCDD							
1,2,3,7,8-PeCDF	1.5E-08	1.5E-08					
2,3,4,6,7,8-HxCDF							
2,3,4,7,8-PeCDF	1.5E-09	1.5E-09					
2,3,7,8-TCDD	5.2E-10	5.2E-10		3.7E-08	3.7E-08		0.0000003
2,3,7,8-TCDF	4.5E-09	4.5E-09					
OCDD	0.0000015	0.0000015					
OCDF	0.0000015	0.0000015					
TOTAL HPCDD							
TOTAL HPCDF							
TOTAL HXCDD							
TOTAL HXCDF							
TOTAL PECDD							
TOTAL PECDF							
TOTAL TCDD							
TOTAL TCDF							
Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5.2E-10	5.2E-10		3.7E-08	3.7E-08		0.0000003
Chlorine (as Cl ₂)							4.01
Total Trihalomethanes							0.0807

Table 3-2: USEPA RSLs and MCLs for Tap Water

Chemicals (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/L)						USMCL (mg/L)
	Cancer Risk Goal = 1E-06			Noncancer HI Goal = 1			
	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	
Field Parameters							
Dissolved Oxygen							
Oxidation Reduction Potential							
Salinity							
Specific Conductance							
Temperature							
Total Dissolved Solids							
Total Solids							
Turbidity							
pH							
Inorganics							
Aluminum				37	37		
Antimony				0.015	0.015		0.006
Arsenic	0.000045	0.000045		0.011	0.011		0.01
Barium				7.3	7.3		2
Beryllium				0.073	0.073		0.004
Cadmium (Diet)							
Cadmium (Water)				0.018	0.018		0.005
Chromium							0.1
Cobalt							
Copper				1.5	1.5		
Iron				26	26		
Lead				0.02	0.02		
Manganese (Diet)							
Manganese (Water)				0.88	0.88		
Mercury				0.00063		0.00063	0.002
Nickel				0.73	0.73		
Selenium				0.18	0.18		0.05
Silver				0.18	0.18		
Thallium				0.0024	0.0024		0.002
Tin				22	22		
Vanadium				0.26	0.26		
Zinc				11	11		
Microorganisms							
Fecal Coliform							0
Fecal Streptococcus							
Heterotrophic Plate Count							
Total Coliforms (including Fecal Coliform and E. Coli)							0
PM-10							
Gravimetrics-PM10							
Pesticides							
4,4-DDD	0.00028	0.00028					
4,4-DDE	0.0002	0.0002					
4,4-DDT	0.0002	0.0002		0.018	0.018		
Aldrin	0.000004	0.000004		0.0011	0.0011		
Chlordane	0.00019	0.00019		0.018	0.018		0.002
Dieldrin	0.0000042	0.0000042		0.0018	0.0018		
Endosulfan I							
Endosulfan II							
Endosulfan Sulfate							
Endrin				0.011	0.011		0.002
Endrin Aldehyde							

Table 3-2: USEPA RSLs and MCLs for Tap Water

Chemicals (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/L)						USMCL (mg/L)
	Cancer Risk Goal = 1E-06			Noncancer HI Goal = 1			
	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	
Heptachlor	0.000015	0.000015		0.018	0.018		0.0004
Heptachlor Epoxide	0.0000074	0.0000074		0.00047	0.00047		0.0002
Methoxychlor				0.18	0.18		0.04
Toxaphene	0.000061	0.000061					0.003
alpha-BHC	0.000011	0.000011					
alpha-Chlordane							0.002
beta-BHC	0.000037	0.000037					
delta-BHC							
gamma-BHC (Lindane)	0.000061	0.000061		0.011	0.011		0.0002
gamma-Chlordane	0.00019	0.00019		0.018	0.018		0.002
Polychlorinated bi-phenyls							
Aroclor 1016	0.00096	0.00096		0.0026	0.0026		
Aroclor 1016/1260	0.000034	0.000034		0.0026	0.0026		
Aroclor 1221	0.0000068	0.000034	0.0000085				
Aroclor 1232	0.0000068	0.000034	0.0000085				
Aroclor 1242	0.000034	0.000034					
Aroclor 1248	0.000034	0.000034					
Aroclor 1254	0.000034	0.000034		0.00073	0.00073		
Aroclor 1260	0.000034	0.000034					
Radionuclides							
Alpha Particles							15
Beta Particles and Photon Emitters							50
Uranium				0.11	0.11		0.03
SVOCs							
1,1'-Biphenyl				1.8	1.8		
1,2,4,5-Tetrachlorobenzene				0.011	0.011		
2,3,4,6-Tetrachlorophenol				1.1	1.1		
2,4,5-Trichlorophenol				3.7	3.7		
2,4,6-Trichlorophenol	0.0061	0.0061		0.037	0.037		
2,4-Dichlorophenol				0.11	0.11		
2,4-Dimethylphenol				0.73	0.73		
2,4-Dinitrophenol				0.073	0.073		
2,4-Dinitrotoluene				0.073	0.073		
2,6-Dichlorophenol							
2,6-Dinitrotoluene				0.037	0.037		
2-Chloronaphthalene				2.9	2.9		
2-Chlorophenol				0.18	0.18		
2-Methylnaphthalene				0.15	0.15		
2-Methylphenol (o-Cresol)				1.8	1.8		
2-Nitrophenol							
3&4-Methylphenol				0.18	0.18		
3-Methylphenol				1.8	1.8		
3-Nitroaniline							
4,6-Dinitro-2-Methylphenol							
4-Bromophenylphenylether							
4-Chloro-3-Methylphenol							
4-Chloroaniline				0.15	0.15		
4-Methylphenol (p-Cresol)				0.18	0.18		
4-Nitroaniline							
4-Nitrophenol							
Acenaphthene				2.2	2.2		
Acenaphthylene							
Aniline	0.012	0.012		0.26	0.26		

Table 3-2: USEPA RSLs and MCLs for Tap Water

Chemicals (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/L)						USMCL (mg/L)
	Cancer Risk Goal = 1E-06			Noncancer HI Goal = 1			
	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	
Anthracene				11	11		
Atrazine	0.00029	0.00029		1.3	1.3		0.003
Benzo(a)anthracene	0.000029	0.000029					
Benzo(a)pyrene	0.0000029	0.0000029					0.0002
Benzo(b)fluoranthene	0.000029	0.000029					
Benzo(g,h,i)perylene							
Benzo(k)fluoranthene	0.00029	0.00029					
Bis(2-ethylhexyl)phthalate	0.0048	0.0048		0.73	0.73		0.006
Butylbenzylphthalate				7.3	7.3		
Carbazole	0.0034	0.0034					
Chrysene	0.0029	0.0029					
Di-n-butylphthalate				3.7	3.7		
Di-n-octylphthalate							
Dibenzo(a,h)anthracene	0.0000029	0.0000029					
Dibenzofuran							
Diethylphthalate				29	29		
Dimethylphthalate							
Diphenylamine				0.91	0.91		
Fluoranthene				1.5	1.5		
Fluorene				1.5	1.5		
Hexachlorobenzene	0.000042	0.000042		0.029	0.029		0.001
Hexachlorobutadiene	0.00086	0.00086		0.037	0.037		
Hexachlorocyclopentadiene				0.22	0.22		0.05
Hexachloroethane	0.0048	0.0048		0.037	0.037		
Indeno(1,2,3-c,d)pyrene	0.000029	0.000029					
Naphthalene	0.00014		0.00014	0.0062	0.73	0.0063	
Nitrobenzene				0.0034	0.018	0.0042	
Pentachlorobenzene				0.029	0.029		
Pentachloronitrobenzene	0.00026	0.00026		0.11	0.11		
Pentachlorophenol	0.00056	0.00056		1.1	1.1		0.001
Phenanthrene							
Phenol				11	11		
Pyrene				1.1	1.1		
Total Carcinogenic PAHS (BaP TEQs)	0.0000029	0.0000029					0.0002
o-Toluidine	0.00037	0.00037					
TPH							
Tph (c03-c20)							
Tph (c08-c40)							
VOCs							
1,1,1,2-Tetrachloroethane	0.00052	0.0026	0.00066	1.1	1.1		
1,1,1-Trichloroethane				9.1	73	10	0.2
1,1,2,2-Tetrachloroethane (Freon 113)	0.000067	0.00034	0.000084	59	1100	63	
1,1,2-Trichloroethane	0.00024	0.0012	0.0003	0.15	0.15		0.005
1,1-Dichloroethane	0.0024	0.012	0.003	0.91	7.3	1	
1,1-Dichloroethene				0.34	1.8	0.42	0.007
1,2,3-Trichlorobenzene							
1,2,3-Trichloropropane	0.0000096	0.0000096		0.22	0.22		
1,2,4-Trichlorobenzene	0.019	0.019		0.37	0.37		0.07
1,2,4-Trimethylbenzene				0.015		0.015	
1,2-Dibromo-3-Chloropropane	0.00000032	0.000027	0.00000032	0.00039	0.0073	0.00042	0.0002
1,2-Dibromoethane (Freon 114)	0.0000065	0.000034	0.0000081	0.018	0.33	0.019	0.00005

Table 3-2: USEPA RSLs and MCLs for Tap Water

Chemicals (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/L)						USMCL (mg/L)
	Cancer Risk Goal = 1E-06			Noncancer HI Goal = 1			
	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	
1,2-Dichlorobenzene				0.37	3.3	0.42	0.6
1,2-Dichloroethane	0.00015	0.00074	0.00019	5.1		5.1	0.005
1,2-Dichloropropane	0.00039	0.0019	0.00049	0.0083		0.0083	0.005
1,3,5-Trimethylbenzene							
1,3-Butadiene	0.00016		0.00016	0.0042		0.0042	
1,3-Dichlorobenzene							
1,3-Dichloropropane				0.73	0.73		
1,4-Dichlorobenzene	0.00043	0.012	0.00044	1.7		1.7	0.075
2,2-Dichloropropane							
2-Butanone (methyl ethyl ketone)				7.1	22	10	
2-Chlorotoluene				0.73	0.73		
2-Hexanone							
4-Chlorotoluene				2.6	2.6		
4-Isopropyltoluene							
4-Methyl-2-Pentanone				2	2.9	6.3	
Acetaldehyde	0.0022		0.0022	0.019		0.019	
Acetone				22	33	64	
Acetonitrile				0.13		0.13	
Acetophenone				3.7	3.7		
Acrolein				0.000042	0.018	0.000042	
Acrylonitrile	0.000045	0.00012	0.000072	0.0037	0.037	0.0042	
Benzene	0.00041	0.0012	0.00062	0.044	0.15	0.063	0.005
Bis(2-Chloroethyl)ether	0.000012	0.000061	0.000015				
Bis(chloromethyl)ether	6.2E-08	0.00000031	7.8E-08				
Bromochloromethane							
Bromodichloromethane	0.0011	0.0011		0.73	0.73		
Bromoform	0.0085	0.0085		0.73	0.73		
Bromomethane				0.0087	0.051	0.01	
Carbon Disulfide				1	3.7	1.5	
Carbon Tetrachloride	0.0002	0.00052	0.00032	0.024	0.026	0.39	0.005
Chlorobenzene				0.091	0.73	0.1	0.1
Chloroethane				21		21	
Chloroform	0.00019	0.0022	0.00021	0.13	0.37	0.2	
Chloromethane	0.0018	0.0052	0.0027	0.19		0.19	
Chloroprene				0.014	0.73	0.015	
Cyclohexane				13		13	
Dibromochloromethane	0.0008	0.0008		0.73	0.73		
Dibromomethane				0.37	0.37		
Dichlorodifluoromethane (Freon 12)				0.39	7.3	0.42	
Ethylbenzene	0.0015	0.0061	0.0019	1.3	3.7	2.1	0.7
Formaldehyde				7.3	7.3		
Hexane				0.88	2.2	1.5	
Isobutyl Alcohol				11	11		
Isophorone	0.071	0.071		7.3	7.3		
Isopropylbenzene				0.68	3.7	0.83	
Methyl Acetate				37	37		
Methyl tert-Butyl Ether	0.012	0.037	0.019	6.3		6.3	
Methylcyclohexane				6.3		6.3	
Methylene Chloride	0.0048	0.009	0.01	1.1	2.2	2.2	0.005
Pentachloroethane							
Styrene				1.6	7.3	2.1	0.1
Tetrachloroethene	0.00011	0.00012	0.00082	0.22	0.37	0.57	0.005
Toluene				2.3	2.9	10	1

Table 3-2: USEPA RSLs and MCLs for Tap Water

Chemicals (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/L)						USMCL (mg/L)
	Cancer Risk Goal = 1E-06			Noncancer HI Goal = 1			
	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	
Trans-1,4-Dichloro-2-Butene							
Trichloroethene	0.0017	0.0052	0.0024				0.005
Trichlorofluoromethane				1.3	11	1.5	
Vinyl Acetate				0.41	37	0.42	
Vinyl Chloride	0.000016	0.000017	0.00032	0.072	0.11	0.21	0.002
Xylenes, Total				0.2	7.3	0.21	10
cis-1,2-Dichloroethene				0.37	0.37		0.07
cis-1,3-Dichloropropene							
m,p-Xylenes				0.2	7.3	0.21	
n-Butylbenzene							
n-Propylbenzene							
o-Xylene				1.4	73	1.5	
sec-Butylbenzene							
tert-Butylbenzene							
trans-1,2-Dichloroethene				0.11	0.73	0.13	0.1
trans-1,3-Dichloropropene							

Notes:

HI - Hazard Index

USMCL - United States Maximum Contaminant Level

Table 3-3: USEPA RSLs, U.S. Background Concentrations, and U.S. Quality Standards for Ambient Air

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/m ³)		Maximum Background Concentration in 2007 U.S. Air Toxics Database (mg/m ³)	US NAAQS (mg/m ³)
	Cancer Risk Goal = 1E-06	Noncancer HI Goal = 1		
	Inhalation	Inhalation		
Aldehydes				
Benzaldehyde				
Butyraldehyde				
Crotonaldehyde				
Hexaldehyde				
M-tolualdehyde				
Methacrylaldehyde				
N-valeraldehyde				
Propionaldehyde				
Alkane Hydrocarbon				
Octane				
Pentadecane				
Tridecane				
Undecane				
Anion				
Chloride				
Cyanide				
Fluoride				
Nitrate (measured as NO ₃ -)				
Nitrite (measured as NO ₂ -)				
Phosphate				
Sulfate				
Dioxins/Furans				
1,2,3,4,6,7,8-HpCDD				
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8,9-HpCDF				
1,2,3,4,7,8-HxCDD				
1,2,3,4,7,8-HxCDF				
1,2,3,6,7,8-HxCDD				
1,2,3,6,7,8-HxCDF				
1,2,3,7,8,9-HxCDD				
1,2,3,7,8,9-HxCDF				
1,2,3,7,8-PeCDD				
1,2,3,7,8-PeCDF		2.5E-09		
2,3,4,6,7,8-HxCDF				
2,3,4,7,8-PeCDF		2.5E-10		
2,3,7,8-TCDD		6.4E-11		
2,3,7,8-TCDF		7.4E-10		
OCDD		0.00000025		
OCDF		0.00000025		
TOTAL HPCDD				
TOTAL HPCDF				
TOTAL HXCDD				
TOTAL HXCDF				
TOTAL PECDD				
TOTAL PECDF				
TOTAL TCDD				
TOTAL TCDF				
TEQs)		6.4E-11		
Chlorine (as Cl ₂)				
Total Trihalomethanes				
Field Parameters				
Dissolved Oxygen				
Oxidation Reduction Potential				
Salinity				

Table 3-3: USEPA RSLs, U.S. Background Concentrations, and U.S. Quality Standards for Ambient Air

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/m ³)		Maximum Background Concentration in 2007 U.S. Air Toxics Database (mg/m ³)	US NAAQS (mg/m ³)
	Cancer Risk Goal = 1E-06	Noncancer HI Goal = 1		
	Inhalation	Inhalation		
Specific Conductance				
Temperature				
Total Dissolved Solids				
Total Solids				
Turbidity				
pH				
Inorganics				
Aluminum		0.0052		
Antimony				
Arsenic	0.00000057	0.000031		
Barium		0.00052		
Beryllium	0.000001	0.000021		
Cadmium (Diet)				
Cadmium (Water)	0.0000014			
Chromium				
Cobalt				
Copper				
Iron				
Lead		0.0017	0.00004	0.0015
Manganese (Diet)				
Manganese (Water)		0.000052		
Mercury		0.00031		
Nickel				
Selenium				
Silver				
Thallium				
Tin				
Vanadium				
Zinc				
Microorganisms				
Fecal Coliform				
Fecal Streptococcus				
Heterotrophic Plate Count (and E. Coli)				
PM-10				
Gravimetrics-PM10				0.15
Pesticides				
4,4-DDD				
4,4-DDE				
4,4-DDT	0.000025			
Aldrin	0.0000005			
Chlordane	0.000024	0.00073		
Dieldrin	0.00000053			
Endosulfan I				
Endosulfan II				
Endosulfan Sulfate				
Endrin				
Endrin Aldehyde				
Heptachlor	0.0000019			
Heptachlor Epoxide	0.00000094			
Methoxychlor			0.00000025	
Toxaphene	0.0000076			
alpha-BHC	0.0000014			
alpha-Chlordane				

Table 3-3: USEPA RSLs, U.S. Background Concentrations, and U.S. Quality Standards for Ambient Air

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/m ³)		Maximum Background Concentration in 2007 U.S. Air Toxics Database (mg/m ³)	US NAAQS (mg/m ³)
	Cancer Risk Goal = 1E-06	Noncancer HI Goal = 1		
	Inhalation	Inhalation		
beta-BHC	0.0000046			
delta-BHC				
gamma-BHC (Lindane)	0.0000078			
gamma-Chlordane	0.000024	0.00073		
Polychlorinated bi-phenyls				
Aroclor 1016	0.00012			
Aroclor 1016/1260	0.0000043			
Aroclor 1221	0.0000043			
Aroclor 1232	0.0000043			
Aroclor 1242	0.0000043			
Aroclor 1248	0.0000043			
Aroclor 1254	0.0000043			
Aroclor 1260	0.0000043			
Radionuclides				
Alpha Particles				
Beta Particles and Photon Emitters				
Uranium				
SVOCs				
1,1'-Biphenyl				
1,2,4,5-Tetrachlorobenzene				
2,3,4,6-Tetrachlorophenol				
2,4,5-Trichlorophenol				
2,4,6-Trichlorophenol	0.00078			
2,4-Dichlorophenol				
2,4-Dimethylphenol				
2,4-Dinitrophenol				
2,4-Dinitrotoluene				
2,6-Dichlorophenol				
2,6-Dinitrotoluene				
2-Chloronaphthalene				
2-Chlorophenol				
2-Methylnaphthalene				
2-Methylphenol (o-Cresol)				
2-Nitrophenol				
3&4-Methylphenol				
3-Methylphenol				
3-Nitroaniline				
4,6-Dinitro-2-Methylphenol				
4-Bromophenylphenylether				
4-Chloro-3-Methylphenol				
4-Chloroaniline				
4-Methylphenol (p-Cresol)				
4-Nitroaniline				
4-Nitrophenol				
Acenaphthene				
Acenaphthylene				
Aniline		0.001		
Anthracene				
Atrazine				
Benzo(a)anthracene	0.0000087			
Benzo(a)pyrene	0.0000087			
Benzo(b)fluoranthene	0.0000087			
Benzo(g,h,i)perylene				
Benzo(k)fluoranthene	0.0000087			

Table 3-3: USEPA RSLs, U.S. Background Concentrations, and U.S. Quality Standards for Ambient Air

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/m ³)		Maximum Background Concentration in 2007 U.S. Air Toxics Database (mg/m ³)	US NAAQS (mg/m ³)
	Cancer Risk Goal = 1E-06	Noncancer HI Goal = 1		
	Inhalation	Inhalation		
Bis(2-ethylhexyl)phthalate				
Butylbenzylphthalate				
Carbazole				
Chrysene	0.000087			
Di-n-butylphthalate				
Di-n-octylphthalate				
Dibenzo(a,h)anthracene	0.0000008			
Dibenzofuran				
Diethylphthalate				
Dimethylphthalate				
Diphenylamine				
Fluoranthene				
Fluorene				
Hexachlorobenzene	0.0000053			
Hexachlorobutadiene	0.00011		0.004095372	
Hexachlorocyclopentadiene		0.00021		
Hexachloroethane	0.00061			
Indeno(1,2,3-c,d)pyrene	0.0000087			
Naphthalene	0.000072	0.0031	0.000199	
Nitrobenzene		0.0021		
Pentachlorobenzene				
Pentachloronitrobenzene				
Pentachlorophenol				
Phenanthrene				
Phenol		0.21		
Pyrene				
Total Carcinogenic PAHS (BaP TEQs)	0.00000087			
o-Toluidine	0.000048			
TPH				
Tph (c03-c20)				
Tph (c08-c40)				
VOCs				
1,1,1,2-Tetrachloroethane	0.00033			
1,1,1-Trichloroethane		5.2	0.006110757	
1,1,2,2-Tetrachloroethane (Freon 113)	0.000042		0.000686503	
1,1,2-Trichloroethane	0.00015		0.000611076	
1,1-Dichloroethane	0.0015	0.52	0.000404744	
1,1-Dichloroethene		0.21	0.000951598	
1,2,3-Trichlorobenzene				
1,2,3-Trichloropropane				
1,2,4-Trichlorobenzene			0.009350798	
1,2,4-Trimethylbenzene		0.0073	0.418084233	
1,2-Dibromo-3-Chloropropane	0.00000016	0.00021		
1,2-Dibromoethane	0.0000041	0.0094	0.000768344	
(Freon 114)				
1,2-Dichlorobenzene		0.21		
1,2-Dichloroethane	0.000094	2.5	0.02234189	
1,2-Dichloropropane	0.00024	0.0042	0.002911399	
1,3,5-Trimethylbenzene			0.13007065	
1,3-Butadiene	0.000081	0.0021	0.248840723	
1,3-Dichlorobenzene				
1,3-Dichloropropane				
1,4-Dichlorobenzene	0.00022	0.83	0.032466258	

Table 3-3: USEPA RSLs, U.S. Background Concentrations, and U.S. Quality Standards for Ambient Air

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/m ³)		Maximum Background Concentration in 2007 U.S. Air Toxics Database (mg/m ³)	US NAAQS (mg/m ³)
	Cancer Risk Goal = 1E-06	Noncancer HI Goal = 1		
	Inhalation	Inhalation		
2,2-Dichloropropane				
2-Butanone (methyl ethyl ketone)		5.2	0.313790789	
2-Chlorotoluene				
2-Hexanone				
4-Chlorotoluene				
4-Methyl-2-Pentanone		3.1	0.908445055	
Acetaldehyde	0.0011	0.0094	0.141257881	
Acetone		32	8.166831902	
Acetonitrile		0.063	0.027535902	
Acetophenone				
Acrolein		0.000021	0.094923681	
Acrylonitrile	0.000036	0.0021	0.035158307	
Benzene	0.00031	0.031		
Bis(2-Chloroethyl)ether	0.0000074			
Bis(chloromethyl)ether	0.000000039			
Bromochloromethane				
Bromodichloromethane				
Bromoform	0.0022			
Bromomethane		0.0052		
Carbon Disulfide		0.73	0.001120933	
Carbon Tetrachloride	0.00016	0.2		
Chlorobenzene		0.052	0.014915926	
Chloroethane		10	0.008528118	
Chloroform	0.00011	0.1		
Chloromethane	0.0014	0.094	0.02465549	
Chloroprene		0.0073	0.001216705	
Cyclohexane		6.3	2.49075254	
Dibromochloromethane				
Dibromomethane				
Dichlorodifluoromethane (Freon 12)		0.21		
Ethylbenzene	0.00097	1	0.628074798	
Formaldehyde	0.00019	0.01		
Hexane		0.73	3.079532452	
Isobutyl Alcohol				
Isophorone		2.1		
Isopropylbenzene		0.42	5.630201006	
Methyl Acetate				
Methyl tert-Butyl Ether	0.0094	3.1	0.31185638	
Methylcyclohexane		3.1	0.424477366	
Methylene Chloride	0.0052	1.1	0.166739632	
Pentachloroethane				
Styrene		1	7.92238593	
Tetrachloroethene	0.00041	0.28	0.013022233	
Toluene		5.2	1.34799501	
Trans-1,4-Dichloro-2-Butene				
Trichloroethene	0.0012		0.005158871	
Trichlorofluoromethane		0.73		
Vinyl Acetate		0.21		
Vinyl Chloride	0.00016	0.1	0.002556196	
VOCs (cont)				
cis-1,2-Dichloroethene				
cis-1,3-Dichloropropene				
m,p-Xylenes		0.1		
n-Butylbenzene				
n-Propylbenzene			0.139361411	

Table 3-3: USEPA RSLs, U.S. Background Concentrations, and U.S. Quality Standards for Ambient Air

Chemical (by class)	USEPA Regional Screening Levels Calculated Based on a 30-Year Residential Exposure (mg/m ³)		Maximum Background Concentration in 2007 U.S. Air Toxics Database (mg/m ³)	US NAAQS (mg/m ³)
	Cancer Risk Goal = 1E-06	Noncancer HI Goal = 1		
	Inhalation	Inhalation		
o-Xylene		0.73	0.64474935	
sec-Butylbenzene				
tert-Butylbenzene				
trans-1,2-Dichloroethene		0.063		
trans-1,3-Dichloropropene				

Notes:

HI - Hazard Index

US NAAQS - United States National Ambient Air Quality Standards

Table 4-1: Naples Background Soil Inorganic Chemical Concentrations

Chemical	Element	Unit	Number of Samples	Min.	Max.	Mean	Median	Geometric mean	Std dev.	Skewness	Kurtosis
Aluminum	Al	mg/kg	982	6,400	86,900	39,200	39,100	35,600	15,500	-0.04	-1.06
Antimony	Sb	mg/kg	794	0.21	42.8	1.4	0.7	0.9	2.7	9.75	134
Arsenic	As	mg/kg	982	1	164	12.4	11.6	10.6	9.2	8.38	110
Barium	Ba	mg/kg	982	9	1813	429	427	322	261	0.67	1.53
Bismuth	Bi	mg/kg	647	0.12	35	0.7	0.5	0.5	1.6	17.3	364
Boron	B	mg/kg	982	1	63	17.4	14	14	11	0.76	-0.06
Cadmium	Cd	mg/kg	861	0.005	10.6	0.5	0.3	0.3	0.7	7.16	85.7
Calcium	Ca	mg/kg	982	1,700	165,700	24,900	20,300	17,900	22,600	2.64	9.74
Chromium	Cr	mg/kg	982	0.25	579	12.5	8.3	8.2	27	15	276
Cobalt	Co	mg/kg	982	0.5	36.6	9.3	7.2	7.6	5.7	0.65	-0.25
Copper	Cu	mg/kg	982	4	3965	163	97	85	262	30	916
Gallium	Ga	mg/kg	794	2	15.3	7.6	7.3	7.1	2.6	0.18	-0.78
Gold	Au	mg/kg	592	0.0001	1.279	0.033	0.009	0.011	0.081	8.53	108
Iron	Fe	mg/kg	982	5,200	154,600	23,700	21,800	21,700	10,200	2.46	26.4
Lanthanum	La	mg/kg	982	10	108	42	41	40	11	0.88	3.18
Lead	Pb	mg/kg	982	6	2052	100	61	68	140	6.94	73
Magnesium	Mg	mg/kg	982	1,000	23,000	5,800	5,000	4,900	3,100	0.76	0.58
Manganese	Mn	mg/kg	982	215	5923	738	720	702	309	7.69	102
Mercury	Hg	mg/kg	596	0.005	2.66	0.19	0.91	0.1	0.27	3.61	18.9
Molybdenum	Mo	mg/kg	940	0.1	20.4	1.8	1.6	1.5	1.3	6.43	81.4
Nickel	Ni	mg/kg	982	0.8	689	11.8	9.9	8.8	23	26.2	769
Phosphorus	P	mg/kg	982	100	8,400	1,900	1,600	1,400	1,300	0.96	0.92
Potassium	K	mg/kg	982	2,100	68,200	21,300	14,300	15,800	15,700	0.76	-0.72
Scandium	Sc	mg/kg	758	0.5	4.1	1.5	1.4	1.4	0.49	1.04	2.01
Selenium	Se	mg/kg	587	0.05	1.9	0.3	0.3	0.3	0.22	1.78	7.87
Silver	Ag	mg/kg	596	0.001	8.132	0.242	0.129	0.145	0.42	11.9	212
Sodium	Na	mg/kg	982	300	29,500	6,100	5,300	4,900	3,900	1.05	1.82
Strontium	Sr	mg/kg	982	13	835	214	189	167	131	0.52	-0.14
Sulfur	S	mg/kg	794	50	6,600	500	400	300	700	5.12	34.1
Tellurium	Te	mg/kg	596	0.01	0.56	0.07	0.05	0.06	0.05	3.34	22.8
Thallium	Tl	mg/kg	794	0.18	69	1.5	1.1	1.3	2.6	23.2	600
Thorium	Th	mg/kg	982	1	44	13.8	13.4	12.6	5.5	0.85	1.89
Titanium	Ti	mg/kg	982	200	2,800	1,300	1,300	1,200	500	0.14	-0.71
Tungsten	W	mg/kg	690	0.3	12.2	1.3	1.2	1.2	0.8	6.05	62.1
Uranium	U	mg/kg	816	0.9	16	3.7	3.1	3.3	1.9	2.11	7.89
Vanadium	V	mg/kg	982	6	187	71	57	60	38	0.43	-1.05
Zinc	Zn	mg/kg	982	24	3211	142	99	109	172	29.6	909

Notes:

Min. - Minimum

Max. - Maximum

Std. dev. - Standard deviation

Source: Background and baseline concentration values of elements harmful to human health in the volcanic soils of the metropolitan and provincial areas of Napoli (Italy)

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Table 4-2: Number of Residences Sampled on the Economy Per Study Area

Study Area	Number of Residences Sampled
1	21
2	8
3	5
4	3
5	32
6	13
7	8
8	38
9	2
TOTAL Number of Residences Sampled:	130

Table 4-3: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CNECF	Soil RSL CCEF	Soil Gas RSL CNECF	Soil Gas RSL CCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CNECF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCEF	Tap Water Inh. Only ⁽²⁾ RSL CNECF	Tap Water Inh. Only ⁽²⁾ RSL CCEF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNECF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNECF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 01																	
0009	PUBLIC	0.0	0.2	--	--	0.3	0.7	--	--	0.4	0.9	0.0	0.2	No	No	Acceptable	Acceptable
0045	PUBLIC	0.1	1.0	--	--	0.2	4.8	0.0	1.5	0.3	5.8	0.1	2.5	No	No	Acceptable	Acceptable
0049	PUBLIC	0.1	6.4	--	--	0.4	0.5	--	--	0.5	6.9	0.1	6.4	No	No	Acceptable	Acceptable
0058	PUBLIC	0.1	1.9	--	--	0.3	1.2	0.0	--	0.4	3.1	0.1	1.9	No	No	Acceptable	Acceptable
0077	PUBLIC	0.0	0.1	--	--	0.5	1.1	0.0	0.4	0.6	1.2	0.0	0.5	No	No	Acceptable	Acceptable
0117	PUBLIC	0.0	0.2	--	--	0.1	0.7	--	--	0.1	0.9	0.0	0.2	No	No	Acceptable	Acceptable
0138	PUBLIC	0.1	1.1	--	--	0.4	8.5	0.0	2.0	0.4	9.5	0.1	3.1	No	No	Acceptable	Acceptable
0170	PUBLIC	0.0	0.1	--	--	0.3	0.9	--	--	0.4	1.0	0.0	0.1	No	No	Acceptable	Acceptable
1211	PUBLIC	0.0	0.0	--	--	0.6	5.0	0.0	1.5	0.6	5.1	0.0	1.5	No	No	Acceptable	Acceptable
1273	PUBLIC	0.0	0.0	--	--	0.3	5.9	0.0	1.4	0.3	5.9	0.0	1.4	No	No	Acceptable	Acceptable
1320	PUBLIC	0.0	0.1	--	--	0.2	3.7	0.0	1.3	0.2	3.9	0.0	1.4	No	No	Acceptable	Acceptable
1454	PUBLIC	0.0	0.3	--	--	0.8	3.0	0.0	1.0	0.8	3.3	0.0	1.2	No	No	Acceptable	Acceptable
1511	PUBLIC	0.0	1.5	0.2	3.5	0.1	2.1	0.0	0.8	0.3	7.1	0.2	5.8	No	No	Acceptable	Acceptable
1516	PUBLIC	0.0	0.1	--	--	0.4	0.2	--	--	0.4	0.3	0.0	0.1	No	No	Acceptable	Acceptable
1522	PUBLIC	0.0	0.3	--	--	0.6	4.4	0.0	1.3	0.6	4.7	0.0	1.6	No	No	Acceptable	Acceptable
1545	PUBLIC	0.0	0.2	--	--	0.2	1.8	0.0	0.6	0.3	1.9	0.0	0.7	No	No	Acceptable	Acceptable
1547	PUBLIC	0.0	0.1	--	--	0.5	1.5	--	--	0.6	1.5	0.0	0.1	No	No	Acceptable	Acceptable
1567	PUBLIC	0.0	0.2	--	--	0.3	4.2	0.0	1.3	0.3	4.4	0.0	1.5	No	No	Acceptable	Acceptable
0073	PRIVATE WELL	0.0	0.0	0.0	6.7	0.1	1.5	--	--	0.1	8.2	0.0	6.7	No	No	Acceptable	Acceptable
1409	PRIVATE WELL	0.0	0.3	--	--	0.2	2.1	0.0	0.7	0.3	2.4	0.0	1.0	No	No	Acceptable	Acceptable
1463	PRIVATE WELL	0.0	0.2	--	--	0.4	5.7	0.0	1.6	0.4	5.9	0.0	1.8	No	No	Acceptable	Acceptable
Study Area 02																	
1327	PUBLIC	--	--	--	--	0.1	2.1	0.0	0.7	0.1	2.1	0.0	0.7	No	No	Acceptable	Acceptable
1333	PUBLIC	--	--	--	--	0.5	7.0	0.0	1.9	0.5	7.0	0.0	1.9	No	No	Acceptable	Acceptable
1337	PUBLIC	--	--	--	--	1.1	5.2	0.0	1.5	1.1	5.2	0.0	1.5	No	No	Unacceptable	Acceptable
1389	PUBLIC	--	--	--	--	0.4	7.6	0.0	2.3	0.4	7.6	0.0	2.3	No	No	Acceptable	Acceptable
1391	PUBLIC	--	--	--	--	0.7	5.9	0.0	1.6	0.7	5.9	0.0	1.6	No	No	Acceptable	Acceptable
1395	PUBLIC	--	--	--	--	0.2	6.3	0.0	1.6	0.2	6.3	0.0	1.6	No	No	Acceptable	Acceptable
1785	PUBLIC	--	--	--	--	0.4	6.8	0.0	1.9	0.4	6.8	0.0	1.9	No	No	Acceptable	Acceptable
1795	PUBLIC	--	--	--	--	0.5	6.2	0.0	1.6	0.5	6.2	0.0	1.6	No	No	Acceptable	Acceptable
Study Area 03																	
1204	PUBLIC	0.0	3.9	--	--	0.2	0.1	--	--	0.3	4.1	0.0	3.9	No	No	Acceptable	Acceptable
1341	PUBLIC	--	--	--	--	0.9	5.7	0.0	1.8	0.9	5.7	0.0	1.8	No	No	Acceptable	Acceptable
1380	PUBLIC	0.0	0.2	--	--	0.8	24.2	0.0	19.3	0.8	24.4	0.1	19.5	No	No	Acceptable ⁵	Acceptable ⁵
1641	PUBLIC	0.1	0.6	--	--	0.3	1.3	--	--	0.3	1.9	0.1	0.6	No	No	Acceptable	Acceptable
1799	PUBLIC	--	--	--	--	0.2	2.0	--	--	0.2	2.0	--	--	No	No	Acceptable	Acceptable

Table 4-3: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CNECF	Soil RSL CCEF	Soil Gas RSL CNECF	Soil Gas RSL CCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CNECF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCEF	Tap Water Inh. Only ⁽²⁾ RSL CNECF	Tap Water Inh. Only ⁽²⁾ RSL CCEF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNECF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNECF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 04																	
0774	PUBLIC	0.0	0.2	0.0	--	0.3	0.2	--	--	0.4	0.3	0.1	0.2	No	No	Acceptable	Acceptable
0777	PUBLIC	0.1	1.1	0.0	--	0.2	1.7	0.0	0.5	0.3	2.9	0.1	1.6	No	No	Acceptable	Acceptable
1559	PUBLIC	0.0	0.1	--	--	0.2	3.4	--	--	0.2	3.5	0.0	0.1	No	No	Acceptable	Acceptable
Study Area 05																	
0901	PUBLIC	0.0	0.4	--	--	0.5	0.6	--	--	0.6	1.1	0.0	0.4	No	No	Acceptable	Acceptable
0907	PUBLIC	0.1	2.3	0.0	--	0.2	1.2	--	--	0.2	3.5	0.1	2.3	No	No	Acceptable	Acceptable
0947	PUBLIC	0.0	0.2	--	--	0.1	--	--	--	0.2	0.2	0.0	0.2	No	No	Acceptable	Acceptable
0949	PUBLIC	0.1	0.6	0.8	555.0	0.1	1.2	--	--	1.0	556.8	0.9	555.6	No	No	Unacceptable	Unacceptable
0950	PUBLIC	0.0	0.0	--	--	0.1	3.1	0.0	1.2	0.2	3.1	0.0	1.2	No	No	Acceptable	Acceptable
0964	PUBLIC	0.1	4.4	--	--	0.8	1.0	0.0	--	1.0	5.3	0.1	4.4	No	No	Acceptable	Acceptable
0967	PUBLIC	0.1	0.6	--	--	0.3	4.6	--	--	0.4	5.2	0.1	0.6	No	No	Acceptable	Acceptable
0984	PUBLIC	0.0	0.3	--	--	0.1	1.4	--	--	0.2	1.7	0.0	0.3	No	No	Acceptable	Acceptable
0989	PUBLIC	0.0	0.2	--	--	0.1	2.1	0.0	0.5	0.1	2.2	0.0	0.7	No	No	Acceptable	Acceptable
1008	PUBLIC	0.0	0.1	--	--	0.4	1.3	--	--	0.4	1.4	0.0	0.1	No	No	Acceptable	Acceptable
1010	PUBLIC	0.0	0.1	--	--	0.3	1.4	--	--	0.4	1.6	0.0	0.1	No	No	Acceptable	Acceptable
1013	PUBLIC	0.0	0.1	0.0	--	0.2	2.1	0.0	0.8	0.2	2.1	0.0	0.8	No	No	Acceptable	Acceptable
1016	PUBLIC	0.0	0.2	--	--	0.1	0.8	--	--	0.2	1.0	0.0	0.2	No	No	Acceptable	Acceptable
1023	PUBLIC	0.0	0.3	--	--	0.1	2.0	0.0	0.7	0.1	2.3	0.0	1.0	No	No	Acceptable	Acceptable
1050	PUBLIC	0.0	0.0	0.0	--	0.5	1.7	0.0	0.5	0.5	1.7	0.0	0.5	No	No	Acceptable	Acceptable
1053	PUBLIC	0.0	0.2	--	--	0.2	1.8	0.0	0.6	0.3	2.0	0.0	0.8	No	No	Acceptable	Acceptable
1059	PUBLIC	0.0	0.1	0.0	1.7	0.1	1.2	0.0	0.1	0.2	3.0	0.0	1.9	No	No	Acceptable	Acceptable
1074	PUBLIC	0.0	0.0	--	--	0.2	1.0	--	--	0.2	1.0	0.0	0.0	No	No	Acceptable	Acceptable
1115	PUBLIC	0.0	0.0	--	--	0.1	0.8	0.0	--	0.1	0.8	0.0	0.0	No	No	Acceptable	Acceptable
1130	PUBLIC	0.0	0.2	0.0	--	0.5	2.0	0.0	0.7	0.5	2.2	0.1	0.8	No	No	Acceptable	Acceptable
1151	PUBLIC	0.0	0.1	0.5	460.7	0.2	2.2	--	--	0.7	463.1	0.5	460.8	No	No	Unacceptable	Unacceptable
1157	PUBLIC	0.0	3.5	0.0	8.9	0.5	1.7	0.0	0.7	0.5	14.1	0.0	13.0	No	No	Unacceptable	Unacceptable
1168	PUBLIC	0.0	0.2	--	--	0.1	0.4	--	--	0.1	0.6	0.0	0.2	No	No	Acceptable	Acceptable
1688	PUBLIC	0.1	41.1	--	--	0.1	1.5	--	--	0.1	42.7	0.1	41.1	No	No	Unacceptable	Unacceptable
1692	PUBLIC	0.0	0.1	--	--	0.4	1.8	0.0	0.5	0.4	1.9	0.0	0.6	Yes	No	Unacceptable	Unacceptable
1800	PUBLIC	0.0	10.5	--	--	0.3	0.6	0.0	0.4	0.3	11.1	0.0	10.9	Yes	No	Unacceptable	Unacceptable
0897	PRIVATE WELL	0.0	0.0	0.0	7.9	0.5	5.8	--	--	0.5	13.7	0.0	7.9	Yes	No	Unacceptable	Unacceptable
0921	PRIVATE WELL	0.1	1.5	--	--	0.1	0.6	--	--	0.2	2.0	0.1	1.5	No	No	Acceptable	Acceptable
0973	PRIVATE WELL	0.0	0.0	--	--	1.2	0.7	0.0	0.6	1.3	0.7	0.0	0.7	Yes	No	Unacceptable	Unacceptable
0974	PRIVATE WELL	0.1	0.2	0.0	6.3	0.5	1.4	0.0	0.6	0.6	7.9	0.1	7.1	No	Yes	Unacceptable	Acceptable
1713	PRIVATE WELL	0.0	0.0	--	--	0.3	2.6	--	--	0.3	2.6	0.0	0.0	No	No	Acceptable	Acceptable
1767	PRIVATE WELL	0.1	0.0	--	--	1.6	127.3	0.0	17.6	1.6	127.3	0.1	17.6	Yes	Yes	Unacceptable	Unacceptable

Table 4-3: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CNECF	Soil RSL CCEF	Soil Gas RSL CNECF	Soil Gas RSL CCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CNECF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCEF	Tap Water Inh. Only ⁽²⁾ RSL CNECF	Tap Water Inh. Only ⁽²⁾ RSL CCEF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNECF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNECF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 06																	
0197	PUBLIC	--	--	--	--	0.6	0.3	--	--	0.6	0.3	--	--	No	No	Acceptable	Acceptable
0199	PUBLIC	0.0	0.1	0.0	6.3	0.5	3.7	--	--	0.5	10.1	0.0	6.4	No	No	Unacceptable	Acceptable
0806	PUBLIC	--	--	--	--	0.2	1.7	0.0	--	0.2	1.7	0.0	--	No	No	Acceptable	Acceptable
0831	PUBLIC	0.0	0.0	1.3	877.7	0.6	2.3	0.0	0.2	1.9	880.0	1.3	877.9	No	No	Unacceptable	Unacceptable
0844	PUBLIC	0.1	0.4	--	--	0.2	2.2	--	--	0.3	2.6	0.1	0.4	No	No	Acceptable	Acceptable
0851	PUBLIC	--	--	--	--	0.5	2.1	--	--	0.5	2.1	--	--	No	No	Acceptable	Acceptable
1202	PUBLIC	0.0	0.2	0.0	0.6	0.4	0.8	--	--	0.5	1.6	0.0	0.9	No	No	Acceptable	Acceptable
1361	PUBLIC	0.0	0.0	0.0	0.9	1.6	2.1	--	--	1.6	3.0	0.0	0.9	No	Yes	Unacceptable	Acceptable
1365	PUBLIC	--	--	--	--	1.0	0.0	--	--	1.0	0.0	--	--	Yes	Yes	Unacceptable	Unacceptable
1661	PUBLIC	0.1	4.1	--	--	0.3	1.0	--	--	0.4	5.1	0.1	4.1	No	No	Acceptable	Acceptable
1665	PUBLIC	--	--	--	--	0.4	2.2	--	--	0.4	2.2	--	--	No	No	Acceptable	Acceptable
1797	PUBLIC	0.1	1.2	--	--	0.2	2.7	--	--	0.3	3.8	0.1	1.2	No	No	Acceptable	Acceptable
0548	PRIVATE WELL	0.0	0.2	0.0	0.2	1.0	23.8	0.0	14.4	1.1	24.2	0.1	14.7	Yes	Yes	Unacceptable	Unacceptable
Study Area 07																	
0111	PUBLIC	0.0	2.2	--	--	0.7	29.0	0.0	3.8	0.7	31.3	0.1	6.0	No	No	Unacceptable	Acceptable
0659	PUBLIC	--	--	--	--	0.9	1.8	--	--	0.9	1.8	--	--	No	No	Acceptable	Acceptable
1369	PUBLIC	0.0	0.1	--	--	0.6	0.1	--	--	0.6	0.2	0.0	0.1	No	No	Acceptable	Acceptable
1637	PUBLIC	0.3	3.6	--	--	0.1	3.0	0.0	0.7	0.4	6.6	0.3	4.3	No	No	Acceptable	Acceptable
1675	PUBLIC	0.0	0.0	0.0	1.4	1.0	2.2	0.0	0.3	1.0	3.7	0.0	1.8	Yes	Yes	Unacceptable	Unacceptable
1732	PUBLIC	0.0	0.1	--	--	0.3	1.2	--	--	0.3	1.3	0.0	0.1	No	No	Acceptable	Acceptable
1634	PRIVATE WELL	0.0	0.1	--	--	2.5	24.1	0.0	3.3	2.6	24.1	0.0	3.4	Yes	Yes	Unacceptable	Unacceptable
1744	PRIVATE WELL	0.0	0.3	--	--	0.9	61.8	0.0	9.0	1.0	62.1	0.1	9.3	Yes	Yes	Unacceptable	Unacceptable

Table 4-3: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CNECF	Soil RSL CCEF	Soil Gas RSL CNECF	Soil Gas RSL CCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CNECF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCEF	Tap Water Inh. Only ⁽²⁾ RSL CNECF	Tap Water Inh. Only ⁽²⁾ RSL CCEF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNECF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNECF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 08																	
0193	PUBLIC	--	--	--	--	5.1	0.8	--	--	5.1	0.8	--	--	No	No	<i>Unacceptable</i>	Acceptable
0346	PUBLIC	0.0	0.1	0.0	--	1.6	28.6	0.0	4.0	1.7	28.7	0.1	4.1	Yes	No	<i>Unacceptable</i>	<i>Unacceptable</i>
0380	PUBLIC	0.1	0.1	--	--	0.2	1.8	--	--	0.2	1.9	0.1	0.1	No	No	Acceptable	Acceptable
0491	PUBLIC	0.0	0.1	--	--	0.3	2.7	--	--	0.4	2.9	0.0	0.1	No	No	Acceptable	Acceptable
0497	PUBLIC	0.1	0.3	--	--	0.2	0.3	--	--	0.2	0.6	0.1	0.3	No	No	Acceptable	Acceptable
0501	PUBLIC	0.0	0.2	--	--	0.2	2.3	--	--	0.2	2.5	0.0	0.2	No	No	Acceptable	Acceptable
0504	PUBLIC	0.0	0.1	--	--	0.3	1.9	--	--	0.3	2.0	0.0	0.1	No	No	Acceptable	Acceptable
0516	PUBLIC	0.1	0.6	--	--	0.4	0.5	--	--	0.5	1.1	0.1	0.6	No	Yes	<i>Unacceptable</i>	Acceptable
0529	PUBLIC	0.1	0.7	--	--	0.7	--	--	--	0.8	0.7	0.1	0.7	No	No	Acceptable	Acceptable
1591	PUBLIC	0.0	0.2	--	0.1	0.4	1.8	--	--	0.5	2.0	0.0	0.2	No	No	Acceptable	Acceptable
1607	PUBLIC	0.1	0.5	--	--	0.7	5.9	0.0	0.5	0.8	6.4	0.1	1.0	Yes	No	<i>Unacceptable</i>	<i>Unacceptable</i>
1628	PUBLIC	0.1	0.1	--	--	0.2	2.8	--	--	0.3	2.9	0.1	0.1	No	No	Acceptable	Acceptable
1738	PUBLIC	0.0	0.1	0.0	0.5	0.3	1.3	--	--	0.3	1.9	0.0	0.6	No	No	Acceptable	Acceptable
1798	PUBLIC	0.0	0.1	--	--	0.8	1.0	0.0	0.7	0.9	1.1	0.0	0.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0214	PRIVATE WELL	0.1	0.1	--	--	0.8	13.6	0.0	1.5	0.9	13.7	0.1	1.6	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0217	PRIVATE WELL	0.1	0.1	--	--	0.5	7.6	0.0	0.9	0.5	7.7	0.1	1.1	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0238	PRIVATE WELL	0.1	0.1	0.0	28.3	0.4	2.8	0.0	0.4	0.5	31.2	0.1	28.8	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0263	PRIVATE WELL	0.0	0.0	--	--	0.5	4.4	0.0	0.6	0.5	4.4	0.0	0.6	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0271	PRIVATE WELL	0.1	1.0	--	--	0.6	9.9	0.0	1.1	0.7	10.9	0.1	2.1	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0283	PRIVATE WELL	0.1	0.1	--	--	1.9	10.4	0.0	1.4	2.0	10.4	0.1	1.4	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0309	PRIVATE WELL	0.1	0.2	0.0	3.9	1.4	457.3	0.1	62.4	1.5	461.4	0.2	66.6	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0333	PRIVATE WELL	0.1	0.2	--	--	0.7	273.8	0.1	37.1	0.8	274.0	0.1	37.2	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0383	PRIVATE WELL	0.0	0.1	--	--	0.6	29.6	0.0	4.1	0.6	29.6	0.0	4.2	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0395	PRIVATE WELL	0.0	0.0	0.0	0.8	0.6	201.9	0.0	27.4	0.6	202.7	0.1	28.2	No	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0402	PRIVATE WELL	--	--	--	--	0.8	2.5	--	--	0.8	2.5	--	--	No	No	Acceptable	Acceptable
0434	PRIVATE WELL	0.1	0.0	--	--	2.3	107.7	0.0	13.6	2.4	107.7	0.1	13.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0440	PRIVATE WELL	0.1	0.1	--	--	0.5	8.8	0.0	1.2	0.6	8.9	0.1	1.3	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0457	PRIVATE WELL	0.0	0.0	--	--	0.7	0.7	--	--	0.7	0.7	0.0	0.0	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0499	PRIVATE WELL	0.0	0.1	--	--	0.7	3.9	0.0	0.6	0.7	4.1	0.0	0.8	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0517	PRIVATE WELL	0.0	0.0	--	--	2.1	--	--	--	2.1	0.0	0.0	0.0	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0539	PRIVATE WELL	0.0	0.0	--	--	0.9	--	--	--	0.9	0.0	0.0	0.0	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
0547	PRIVATE WELL	0.1	0.1	--	--	0.5	5.3	0.0	0.6	0.6	5.4	0.1	0.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1602	PRIVATE WELL	0.1	0.7	--	--	0.4	0.0	--	--	0.5	0.8	0.1	0.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1606	PRIVATE WELL	0.0	0.1	--	--	1.8	64.4	0.0	9.2	1.8	64.4	0.1	9.3	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1608	PRIVATE WELL	0.1	0.2	--	--	0.8	14.9	0.0	2.1	0.8	15.1	0.1	2.3	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1614	PRIVATE WELL	0.1	0.4	0.0	2.9	0.6	31.1	0.0	4.8	0.7	34.4	0.1	8.1	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
1735	PRIVATE WELL	0.0	0.1	--	--	0.6	79.9	0.0	11.6	0.7	80.0	0.1	11.7	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>
VILLA	PRIVATE WELL	0.1	0.1	0.0	5.2	0.8	5.6	0.0	0.8	0.8	10.9	0.1	6.1	Yes	Yes	<i>Unacceptable</i>	<i>Unacceptable</i>

Table 4-3: Summary of Naples Residence Risks by Study Area

Site ID	Water Source	Soil RSL CNECF	Soil RSL CCEF	Soil Gas RSL CNECF	Soil Gas RSL CCEF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CNECF	Tap Water Ing.+Inh. ⁽¹⁾ RSL CCEF	Tap Water Inh. Only ⁽²⁾ RSL CNECF	Tap Water Inh. Only ⁽²⁾ RSL CCEF	Includes Soil, Soil Gas, and Tap Water				Exceed Fecal or Total Coliform MCL?	Exceed MCL for any Chemical?	Ing.+Inh. Acceptable or Unacceptable	Inh. Only Acceptable or Unacceptable
										Total CNECF Ing.+Inh. ⁽³⁾	Total CCEF Ing.+Inh. ⁽³⁾	Total CNECF Inh. Only ⁽⁴⁾	Total CCEF Inh. Only ⁽⁴⁾				
Study Area 09																	
0549	PUBLIC	--	--	--	--	0.5	0.0	--	--	0.5	0.0	--	--	No	No	Acceptable	Acceptable
1589	PUBLIC	0.0	0.1	0.0	1.8	0.3	3.2	0.0	0.5	0.3	5.0	0.0	2.3	No	No	Acceptable	Acceptable

Note:

CCEF = Cumulative Cancer Exceedance Factor CNECF = Cumulative Noncancer Exceedance Factor Inh. = Inhalation Ing. = Ingestion RSL = USEPA Regional risk-based screening level MCL = USEPA Maximum Contaminant Limit

0.0 = Value is less than 0.1.

-- = Value is zero or samples were not collected for that medium.

¹Ing.+Inh. exposure scenario for residences assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice.

²Inh. Only exposure scenario for residences assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice.

³Ing.+Inh. exposure scenario for residences (Total Cumulative Exceedance Factor-Based on Soil, Soil Gas, and Tap Water) assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice.

⁴Inh. Only exposure scenario for residences (Total Cumulative Exceedance Factor-Based on Soil, Soil Gas, and Tap Water) assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice.

Residences that meet the unacceptable criteria for Ing.+Inh. or Inh. Only are shaded and bold.

⁵Location #1380, had chloroform detected in tap water at a concentration that resulted in a CEF greater than 10 (i.e., an unacceptable risk). However, USN policy for this project is to evaluate the risks of trihalomethanes (THMs) (i.e., bromodichloromethane, chloroform, bromoform, and dibromochloromethane) using the THM MCL rather than individual RSLs. The tap water concentration of THMs is less than the THMs MCL, therefore the risk at this location is considered acceptable.

Table 4-4: Maximum Detected Ambient Air Concentrations Compared to U.S. Maximum Concentrations

Chemical	Study Area and Location									U.S. Ambient Air Concentration ⁽¹⁾ mg/m ³
	A01	A02	A03	A04	A05	A06	A07	A08	A09	
	JFC NATO mg/m ³	Consulate mg/m ³	CAPO mg/m ³	Carney Park mg/m ³	Receiver Site mg/m ³	Support Site mg/m ³	Parco Eva mg/m ³	Villa mg/m ³	Parco Le Ginestra mg/m ³	
1,1,1-Trichloroethane	2.4E-04	2.2E-04	2.6E-04	2.6E-04	2.6E-04	2.5E-04	2.3E-04	2.2E-04	2.6E-04	6.1E-03
1,1,2,2-Tetrachloroethane	--	--	--	2.9E-04	--	3.6E-04	3.9E-04	--	3.6E-04	6.9E-04
1,1-Dichloroethene	1.4E-04	--	--	1.6E-04	1.6E-04	--	--	--	1.8E-04	9.5E-04
1,2,4-Trichlorobenzene	--	--	--	--	--	--	--	1.7E-03	1.6E-03	9.4E-03
1,2,4-Trimethylbenzene	1.7E-03	6.3E-03	2.0E-03	1.0E-03	1.4E-03	9.1E-04	1.2E-03	2.4E-03	2.0E-03	4.2E-01
1,2-Dichloroethane	1.6E-04	1.7E-04	--	2.0E-04	1.9E-04	1.8E-04	1.7E-04	1.8E-04	1.6E-04	2.2E-02
1,2-Dichloropropane	4.5E-03	6.5E-03	4.4E-03	8.4E-03	8.6E-03	4.3E-03	8.8E-03	4.4E-03	4.9E-03	2.9E-03
1,3,5-Trimethylbenzene	4.3E-04	1.9E-03	5.1E-04	3.5E-04	3.8E-04	2.6E-04	3.7E-04	5.9E-04	6.4E-04	1.3E-01
1,3-Butadiene	--	6.9E-04	9.0E-04	--	5.2E-04	--	--	--	6.6E-04	2.5E-01
1,4-Dichlorobenzene	--	--	--	--	2.9E-04	--	--	2.0E-04	3.2E-04	3.2E-02
2-Butanone (methyl ethyl ketone)	3.9E-03	8.3E-03	4.6E-03	4.3E-03	5.4E-03	5.3E-03	3.8E-03	5.7E-03	3.8E-03	3.1E-01
Acetaldehyde	1.1E-03	1.1E-03	1.7E-03	9.4E-04	1.3E-03	2.2E-03	1.6E-03	1.3E-03	2.0E-03	1.4E-01
Acetone	2.0E-02	5.4E-01	5.1E-02	2.6E-02	3.7E-02	3.8E-02	3.5E-02	1.0E-01	2.0E-02	8.2E+00
Acetonitrile	1.2E-03	7.6E-04	3.3E-03	5.6E-03	3.8E-03	1.4E-03	1.1E-03	3.1E-03	2.3E-03	2.8E-02
Acrolein	3.8E-03	6.9E-03	3.0E-03	2.6E-03	3.3E-03	2.3E-03	3.5E-03	5.1E-03	2.0E-03	9.5E-02
Acrylonitrile	6.0E-04	7.4E-04	4.5E-04	4.2E-04	6.2E-04	3.9E-04	4.1E-04	9.2E-04	7.7E-04	3.5E-02
Arsenic ⁽²⁾	6.6E-06	8.4E-06	1.0E-05	1.2E-06	2.9E-06	1.3E-06	1.9E-06	1.0E-06	1.6E-06	3.0E-05
Benzene ⁽²⁾	1.5E-03	6.8E-03	4.2E-03	8.0E-04	1.6E-03	2.7E-03	1.9E-03	5.6E-03	2.0E-03	5.7E-03
Carbon Disulfide	3.4E-03	5.8E-03	2.9E-03	7.0E-03	8.3E-03	2.9E-03	7.6E-03	3.1E-03	3.1E-03	1.1E-03
Carbon Tetrachloride ⁽²⁾	8.6E-04	7.8E-04	8.5E-04	9.9E-04	9.1E-04	9.5E-04	1.0E-03	9.7E-04	8.1E-04	7.0E-04
Chloroethane	9.8E-04	4.2E-04	--	--	2.7E-04	--	--	--	2.2E-04	8.5E-03
Chloroform ⁽²⁾	3.4E-04	2.5E-04	2.6E-04	7.0E-04	3.1E-04	2.8E-04	2.3E-04	4.8E-04	3.2E-04	3.0E-04
Chloromethane	3.9E-03	2.0E-03	1.8E-03	2.1E-03	1.9E-03	2.0E-03	1.2E-02	2.4E-03	3.9E-02	2.5E-02
Cyclohexane	9.0E-04	7.4E-03	4.0E-03	2.4E-04	7.8E-04	2.1E-03	2.1E-03	7.4E-03	5.9E-04	2.5E+00
Dieldrin ⁽²⁾	--	1.4E-06	1.2E-05	--	3.4E-06	--	8.7E-06	4.9E-06	1.6E-06	1.6E-06
Ethylbenzene	1.4E-03	3.6E-03	1.8E-03	7.9E-04	1.3E-03	1.4E-03	1.2E-03	2.5E-03	2.9E-03	6.3E-01
Formaldehyde ⁽²⁾	3.1E-03	4.3E-03	3.7E-03	2.5E-03	4.5E-03	4.0E-03	3.1E-03	2.8E-03	4.3E-03	7.9E-03
Gravimetrics-PM ₁₀ ⁽³⁾	7.5E-02	9.4E-02	7.3E-02	4.5E-02	9.7E-02	6.5E-02	5.8E-02	6.3E-02	6.9E-02	1.5E-01
Hexachlorobutadiene	4.7E-04	3.1E-04	3.7E-04	4.2E-04	4.2E-04	3.7E-04	3.2E-04	9.4E-04	9.4E-04	4.1E-03
Hexane	5.0E-02	2.4E-01	1.2E-01	2.7E-02	1.6E-02	3.1E-02	3.1E-02	2.5E-01	1.5E-01	3.1E+00
Isopropylbenzene	--	3.5E-04	1.4E-04	--	2.4E-04	--	--	3.1E-04	2.6E-04	5.6E+00
Lead ⁽⁴⁾	1.7E-05	2.5E-05	7.1E-05	4.4E-06	2.0E-05	2.3E-05	4.9E-05	2.8E-05	3.4E-05	4.0E-05
Methyl tert-Butyl Ether	1.9E-03	7.4E-03	1.2E-02	1.1E-03	1.8E-03	1.6E-03	1.4E-03	3.3E-03	3.0E-03	3.1E-01
Methylcyclohexane	3.9E-04	7.8E-03	3.7E-03	2.7E-04	4.1E-04	1.9E-03	1.9E-03	7.7E-03	4.8E-04	4.2E-01
Methylene Chloride	8.2E-04	1.2E-03	1.3E-03	6.3E-04	1.2E-03	9.5E-04	1.1E-03	1.2E-03	8.2E-04	1.7E-01
Naphthalene	1.1E-06	--	--	6.3E-07	7.2E-07	--	2.4E-06	1.3E-06	1.9E-06	2.0E-04
o-Xylene	1.5E-03	5.3E-03	2.0E-03	1.0E-03	1.5E-03	1.0E-03	1.2E-03	2.8E-03	2.9E-03	6.4E-01
Styrene	3.9E-04	2.5E-03	3.9E-03	2.8E-04	6.5E-04	4.5E-04	1.2E-03	1.5E-03	9.8E-04	7.9E+00
Tetrachloroethene	2.2E-03	3.9E-03	2.2E-03	3.1E-03	2.8E-03	4.4E-03	3.1E-03	2.3E-03	1.0E-02	1.3E-02
Toluene	6.6E-03	1.7E-02	7.2E-03	3.6E-03	5.9E-03	4.0E-03	5.3E-03	1.2E-02	2.7E-02	1.3E+00
Total Carcinogenic PAHS (BaP TEQs) ⁽²⁾	--	3.4E-10	3.0E-07	--	4.8E-07	9.2E-10	6.4E-06	1.4E-09	2.4E-07	1.9E-05
Total Dioxin/Furans (2,3,7,8-TCDD TEQs) ⁽²⁾	2.4E-12	4.5E-10	2.7E-10	2.0E-12	3.7E-10	1.3E-09	1.2E-09	1.8E-10	3.7E-10	2.1E-10
Trichloroethene	4.9E-04	7.4E-04	2.1E-04	--	--	--	3.2E-04	--	1.0E-03	5.2E-03
Vinyl Chloride	2.3E-04	2.7E-04	--	--	--	--	--	--	--	2.6E-03

Notes:

AA = Ambient Air. Max = Maximum. NAAQS = National Ambient Air Quality Standard. NCEF = Noncancer exceedance factor. CEF = Cancer exceedance factor.

Includes all chemicals that had an NCEF greater than 1, a CEF greater than 10 and all other chemicals for which background concentrations were available.

-- = Chemical was not detected at this location.

Shaded and bold values are instances where the maximum detected concentration exceeds the U.S. Maximum or the NAAQS.

Concentrations are based on 30 days of air data (5 samples from each location) collected from July 7, 2008 to August 30, 2008. Only chemicals that exceeded the criteria in at least one location were included in this table.

¹U.S. EPA Air Toxics Database. 2007. San Diego County, California (211 Records) 2. Los Angeles County, California (458 Records) 3. King County (Seattle), Washington (137 Records) 4. Harris County (Houston), Texas (1129 Records) 5. Ellis County (Medothian), Texas (234 Records) 7. Washington DC (150 Records). http://www.epa.gov/aqspub1/annual_summary.html.

²U.S. Background chemical concentrations are from Tetra Tech Phase I Environmental Testing Support Assessment, Table 3-12, Background Urban Air Concentrations.

³The U.S. NAAQS for PM₁₀ is 0.15 mg/m³ and this value should be compared to samples collected over 24-hours.

⁴The U.S. NAAQS for Lead is 0.0015 mg/m³ and the averaging time for this value is a quarterly (i.e., 1/4 of a year) average.

Table 4-5: Study Area 1 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
21 Residences Sampled: 18 Public Water and three on Private Well					
Total – Ingestion+Inhalation ⁵	0	0.1 – 0.8	0.3 – 9.5	<ul style="list-style-type: none"> ▪ Soil (4) ▪ Soil Gas (2) ▪ Tap Water (16) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 4 of 21 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 21 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 19 samples) ▪ Naphthalene (exceeded RSL – 1 of 19 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Bromoform (exceeded RSL – 1 of 19 samples) ▪ Chloroform (exceeded RSL – 4 of 19 samples) ▪ Dibromochloromethane (exceeded RSL – 7 of 19 samples) ▪ Tetrachloroethene (exceeded RSL – 5 of 19 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 18 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 3 samples) ▪ Dibromochloromethane (exceeded RSL – 1 of 3 samples) ▪ Tetrachloroethene (exceeded RSL – 1 of 3 samples)
Total – Inhalation Only ⁶	0	0 - 0.2	0.1 - 6.7	<ul style="list-style-type: none"> ▪ Soil (4) ▪ Soil Gas (2) ▪ Tap Water (8) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 4 of 21 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 21 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 19 samples) ▪ Naphthalene (exceeded RSL – 1 of 19 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 3 of 19 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 3 samples)

Notes:

EF - Exceedance factor

CNCEF – Cumulative noncancer EF

CCEF – Cumulative cancer EF

RSL – USEPA Regional risk-based Screening Level

¹A noncancer EF of one is equivalent to a hazard index of one

²A cancer EF of 10 is equivalent to a cancer risk of 1x10⁻⁵ or one in 100,000

³Media that have cumulative EFs greater than one and the associated number of residences

⁴Chemicals that have EFs greater than one (i.e., concentration was greater than RSL)

⁵Assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice

⁶Assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice

Table 4-6: Study Area 2 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
Eight Residences Sampled: Eight on Public Water					
Total – Ingestion+Inhalation ⁵	1	0.1 – 1.1	2.1-7.6	<ul style="list-style-type: none"> ▪ Soil (0) ▪ Soil Gas (0) ▪ Tap Water (8) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ No soil samples were collected. <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ No soil gas samples were collected. <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 5 of 8 samples) ▪ Dibromochloromethane (exceeded RSL – 3 of 8 samples) ▪ Tetrachloroethene (exceeded RSL – 7 of 8 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 8 samples)
Total – Inhalation Only ⁶	0	0	0.7 – 2.3	<ul style="list-style-type: none"> ▪ Soil (0) ▪ Soil Gas (0) ▪ Tap Water (7) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ No soil samples were collected. <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ No soil gas samples were collected. <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 4 of 8 samples)

Notes:

EF - Exceedance factor

CNCEF – Cumulative noncancer EF

CCEF – Cumulative cancer EF

RSL – USEPA Regional risk-based Screening Level

¹A noncancer EF of one is equivalent to a hazard index of one

²A cancer EF of 10 is equivalent to a cancer risk of 1x10⁻⁵ or one in 100,000

³Media that have cumulative EFs greater than one and the associated number of residences

⁴Chemicals that have EFs greater than one (i.e., concentration was greater than RSL)

⁵Assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice

⁶Assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice

Table 4-7: Study Area 3 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
Five Residences Sampled: Five on Public Water⁷					
Total – Ingestion+Inhalation ⁵	0	0.2 – 0.9	1.9 – 24.4	<ul style="list-style-type: none"> ▪ Soil (1) ▪ Soil Gas (0) ▪ Tap Water (4) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 1 of 3 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil gas at concentrations exceeding their RSL. <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 3 of 6 samples) ▪ Dibromochloromethane (exceeded RSL – 1 of 6 samples) ▪ Tetrachloroethene (exceeded RSL – 2 of 6 samples)
Total – Inhalation Only ⁶	0	0 - 0.1	0 – 19.5	<ul style="list-style-type: none"> ▪ Soil (1) ▪ Soil Gas (0) ▪ Tap Water (2) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 1 of 3 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil gas at concentrations exceeding their RSL. <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 3 of 6 samples)

Notes:

EF - Exceedance factor

CNCEF – Cumulative noncancer EF

CCEF – Cumulative cancer EF

RSL – USEPA Regional risk-based Screening Level

¹A noncancer EF of one is equivalent to a hazard index of one

²A cancer EF of 10 is equivalent to a cancer risk of 1x10⁻⁵ or one in 100,000

³Media that have cumulative EFs greater than one and the associated number of residences

⁴Chemicals that have EFs greater than one (i.e., concentration was greater than RSL)

⁵Assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice

⁶Assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice

⁷One location, #1380, had chloroform detected in tap water at a concentration that resulted in a CEF greater than 10 (i.e., an unacceptable risk). However, USN policy for this project is to evaluate the risks of tri-halomethanes (THMs) (i.e., bromodichloromethane, chloroform, bromoform, and dichlorobromomethane) using the USMCL rather than RSL. The tap water concentration of THMs is less than the USMCL, therefore the risk at this location is considered acceptable.

Table 4-8: Study Area 4 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
Three Residences Sampled: Three on Public Water					
Total – Ingestion+Inhalation ⁵	0	0.2 - 0.4	0.3 - 3.5	<ul style="list-style-type: none"> ▪ Soil (1) ▪ Soil Gas (0) ▪ Tap Water (2) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil at concentrations exceeding their RSL. <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil gas at concentrations exceeding their RSL. <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Dibromochloromethane (exceeded RSL – 1 of 3 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 3 samples)
Total – Inhalation Only ⁶	0	0 - 0.1	0.2 – 1.6	<ul style="list-style-type: none"> ▪ Soil (1) ▪ Soil Gas (0) ▪ Tap Water (0) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil at concentrations exceeding their RSL. <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil gas at concentrations exceeding their RSL. <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in tap water at concentrations exceeding their RSL.

Notes:

EF - Exceedance factor

CNCEF – Cumulative noncancer EF

CCEF – Cumulative cancer EF

RSL – USEPA Regional risk-based Screening Level

¹A noncancer EF of one is equivalent to a hazard index of one

²A cancer EF of 10 is equivalent to a cancer risk of 1x10⁻⁵ or one in 100,000

³Media that have cumulative EFs greater than one and the associated number of residences

⁴Chemicals that have EFs greater than one (i.e., concentration was greater than RSL)

⁵Assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice

⁶Assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice

Table 4-9: Study Area 5 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
32 Residences Sampled: 26 Public Water and six on Private Well					
Total – Ingestion + Inhalation ⁵	10	0.1 – 1.6	0.2 – 556.8	<ul style="list-style-type: none"> ▪ Soil (6) ▪ Soil Gas (6) ▪ Tap Water (24) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 5 of 33 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 2 of 33 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 4 of 32 samples) ▪ Tetrachloroethene (exceeded RSL – 3 of 32 samples) ▪ Trichloroethene (exceeded RSL – 1 of 32 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 26) ▪ Dibromochloromethane (exceeded RSL – 2 of 26 samples) ▪ Fecal coliform (exceeded USMCL – 1 of 30 samples) ▪ Total coliforms (exceeded USMCL – 2 of 30 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 2 of 26 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Fecal coliform (exceeded USMCL – 3 of 10 samples) ▪ Nitrates (exceeded USMCL – 2 of 6 samples) ▪ Tetrachloroethene (exceeded RSL – 2 of 8 samples) (exceeded USMCL – 2 of 8 samples) ▪ Total coliforms (exceeded USMCL – 4 of 10 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 2 of 8 samples)

Table 4-9: Study Area 5 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
32 Residences Sampled: 26 Public Water and six on Private Well					
Total – Inhalation Only ⁵	9	0 - 0.9	0 – 555.6	<ul style="list-style-type: none"> ▪ Soil (6) ▪ Soil Gas (6) ▪ Tap Water (6) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 5 of 33 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 2 of 33 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 4 of 32 samples) ▪ Tetrachloroethene (exceeded RSL – 3 of 32 samples) ▪ Trichloroethene (exceeded RSL – 1 of 32 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 26) ▪ Fecal coliform (exceeded USMCL – 1 of 30 samples) ▪ Total coliforms (exceeded USMCL – 2 of 30 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Fecal coliform (exceeded USMCL – 3 of 10 samples) ▪ Tetrachloroethene (exceeded RSL – 2 of 8 samples) ▪ Total coliforms (exceeded USMCL – 4 of 10 samples)

Notes:

EF - Exceedance factor

CNCEF – Cumulative noncancer EF

CCEF – Cumulative cancer EF

RSL – USEPA Regional risk-based Screening Level

¹A noncancer EF of one is equivalent to a hazard index of one

²A cancer EF of 10 is equivalent to a cancer risk of 1x10⁻⁵ or one in 100,000

³Media that have cumulative EFs greater than one and the associated number of residences

⁴Chemicals that have EFs greater than one (i.e., concentration was greater than RSL)

⁵Assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice

⁶Assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice

Table 4-10: Study Area 6 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
13 Residences Sampled: 12 Public Water and one on Private Well					
Total - Ingestion + Inhalation ⁵	5	0.2 – 1.9	0 – 880	<ul style="list-style-type: none"> ▪ Soil (2) ▪ Soil Gas (2) ▪ Tap Water (11) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 1 of 8 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 8 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 8 samples) ▪ Tetrachloroethene (exceeded RSL – 1 of 8 samples) ▪ Trichloroethene (exceeded RSL – 1 of 8 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Dibromochloromethane (exceeded RSL – 4 of 14 samples) ▪ Nitrate (exceeded USMCL – 1 of 12 samples) ▪ Tetrachloroethene (exceeded RSL – 1 of 14 samples) ▪ Thallium (exceeded RSL – 1 of 13 samples) (exceeded USMCL – 1 of 13 samples) ▪ Total coliforms (exceeded USMCL – 1 of 15 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 12 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Carbon Tetrachloride (exceeded RSL – 1 of 1 sample) ▪ Chloroform (exceeded RSL – 1 of 1 sample) ▪ Nitrate (exceeded USMCL – 1 of 1 sample) ▪ Tetrachloroethene (exceeded RSL – 1 of 1 sample) ▪ Total coliforms (exceeded USMCL – 1 of 3 samples)

Table 4-10: Study Area 6 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
13 Residences Sampled: 12 Public Water and one on Private Well					
Total – Inhalation Only ⁵	3	0 – 1.3	0 – 877.9	<ul style="list-style-type: none"> ▪ Soil (2) ▪ Soil Gas (2) ▪ Tap Water (2) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 1 of 8 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 8 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 8 samples) ▪ Tetrachloroethene (exceeded RSL – 1 of 8 samples) ▪ Trichloroethene (exceeded RSL – 1 of 8 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Total coliforms (exceeded USMCL – 1 of 15 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 1 sample) ▪ Carbon Tetrachloride (exceeded RSL – 1 of 1 sample) ▪ Total Coliforms (exceeded USMCL – 1 of 3 samples)

Notes:

EF - Exceedance factor

CNCEF – Cumulative noncancer EF

CCEF – Cumulative cancer EF

RSL – USEPA Regional risk-based Screening Level

¹A noncancer EF of one is equivalent to a hazard index of one

²A cancer EF of 10 is equivalent to a cancer risk of 1x10⁻⁵ or one in 100,000

³Media that have cumulative EFs greater than one and the associated number of residences

⁴Chemicals that have EFs greater than one (i.e., concentration was greater than RSL)

⁵Assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice

⁶Assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice

Table 4-11: Study Area 7 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
Eight Residences Sampled: Six Public Water and two on Private Well					
Total – Ingestion+Inhalation ⁵	4	0.3 – 2.6	0.2 – 62.1	<ul style="list-style-type: none"> ▪ Soil (2) ▪ Soil Gas (1) ▪ Tap Water (7) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 1 of 7 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 7 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Tetrachloroethene (exceeded RSL – 1 of 6 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Dibromochloromethane (exceeded RSL – 2 of 7 samples) ▪ Nitrates (exceeded USMCL – 1 of 5 samples) ▪ Tetrachloroethene (exceeded RSL – 3 of 7 samples) ▪ Total coliforms (exceeded USMCL – 2 of 8 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Lead (exceeded RSL – 1 of 2 samples) ▪ Nitrate (exceeded USMCL – 2 of 2 samples) ▪ Tetrachloroethene (exceeded RSL – 2 of 2 samples) (exceeded USMCL – 1 of 2 samples) ▪ Total coliforms (exceeded USMCL – 4 of 4 samples)
Total – Inhalation Only ⁶	3	0 – 0.3	0 – 9.3	<ul style="list-style-type: none"> ▪ Soil (2) ▪ Soil Gas (1) ▪ Tap Water (4) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ Total Carcinogenic PAHS (BaP TEQs) (exceeded RSL – 1 of 7 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 7 samples) <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Tetrachloroethene (exceeded RSL – 1 of 6 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Tetrachloroethene (exceeded RSL – 2 of 7 samples) ▪ Total coliforms (exceeded USMCL – 2 of 8 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Tetrachloroethene (exceeded RSL – 2 of 2 samples) ▪ Total coliforms (exceeded USMCL – 4 of 4 samples)

Notes:

EF - Exceedance factor

CNCEF – Cumulative noncancer EF

CCEF – Cumulative cancer EF

RSL – USEPA Regional risk-based Screening Level

¹A noncancer EF of one is equivalent to a hazard index of one

²A cancer EF of 10 is equivalent to a cancer risk of 1x10⁻⁵ or one in 100,000

³Media that have cumulative EFs greater than one and the associated number of residences

⁴Chemicals that have EFs greater than one (i.e., concentration was greater than RSL)

⁵Assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice

⁶Assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice

Table 4-12: Study Area 8 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
38 Residences Sampled: 14 Public Water and 24 on Private Well					
Total – Ingestion+Inhalation ⁵	28	0.2 – 5.1	0 – 461.4	<ul style="list-style-type: none"> ▪ Soil (0) ▪ Soil Gas (4) ▪ Tap Water (36) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil at concentrations exceeding their RSL. <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 35 samples) ▪ Tetrachloroethene (exceeded RSL – 3 of 35 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Copper (exceeded RSL – 1 of 14 samples) ▪ Dibromochloromethane (exceeded RSL – 4 of 14 samples) ▪ Fecal coliform (exceeded USMCL – 2 of 17) ▪ Lead (exceeded RSL – 1 of 14 samples) ▪ Nitrate (exceeded USMCL – 2 of 14 samples) ▪ Tetrachloroethene (exceeded RSL – 2 of 14 samples) ▪ Total coliforms (exceeded USMCL – 5 of 17 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 1 of 14 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 25 samples) ▪ Copper (exceeded RSL – 4 of 25 samples) ▪ Fecal coliform (exceeded USMCL – 13 of 47 samples) ▪ Nitrates (exceeded USMCL – 23 of 25 samples) ▪ Tetrachloroethene (exceeded RSL – 19 of 25 samples) (exceeded USMCL - 6 of 25 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 4 of 25 samples) ▪ Total coliforms (exceeded USMCL – 42 of 47 samples)

Table 4-12: Study Area 8 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
38 Residences Sampled: 14 Public Water and 24 on Private Well					
Total – Inhalation Only ⁵	26	0 – 0.2	0 – 66.6	<ul style="list-style-type: none"> ▪ Soil (0) ▪ Soil Gas (4) ▪ Tap Water (26) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil at concentrations exceeding their RSL. <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 35 samples) ▪ Tetrachloroethene (exceeded RSL – 3 of 35 samples) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Fecal coliform (exceeded USMCL – 2 of 17) ▪ Tetrachloroethene (exceeded RSL – 1 of 14 samples) ▪ Total Coliforms (exceeded USMCL – 5 of 17 samples) <p>Private Well</p> <ul style="list-style-type: none"> ▪ Chloroform (exceeded RSL – 1 of 25 samples) ▪ Fecal coliform (exceeded USMCL – 13 of 47 samples) ▪ Tetrachloroethene (exceeded RSL – 13 of 25 of samples) ▪ Total coliform (exceeded USMCL – 42 of 47 samples)

Notes:

EF - Exceedance factor

CNCEF – Cumulative noncancer EF

CCEF – Cumulative cancer EF

RSL – USEPA Regional risk-based Screening Level

¹A noncancer EF of one is equivalent to a hazard index of one

²A cancer EF of 10 is equivalent to a cancer risk of 1x10⁻⁵ or one in 100,000

³Media that have cumulative EFs greater than one and the associated number of residences

⁴Chemicals that have EFs greater than one (i.e., concentration was greater than RSL)

⁵Assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice

⁶Assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice

Table 4-13: Study Area 9 – Risk Summary

Exposure Scenario	Number of Locations with Unacceptable Risks	Range of Total CNCEFs ¹	Range of Total CCEFs ²	Media Responsible for Majority of Risks ³ (Number of Residences)	Chemicals Responsible for the Majority of Risks ⁴
Two Residences Sampled: Two on Public Water					
Total – Ingestion+Inhalation ⁵	0	0.3 – 0.5	0 – 5.0	<ul style="list-style-type: none"> ▪ Soil (0) ▪ Soil Gas (1) ▪ Tap Water (1) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil at concentrations exceeding their RSL. <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Tetrachloroethene (exceeded RSL – 1 of 1 sample) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ Dibromochloromethane (exceeded RSL – 1 of 2 samples) ▪ Total dioxins/furans (2,3,7,8-TCDD TEQs) (exceeded RSL – 2 of 2 samples)
Total – Inhalation Only ⁶	0	0	0 – 2.3	<ul style="list-style-type: none"> ▪ Soil (0) ▪ Soil Gas (1) ▪ Tap Water (0) 	<p>Soil</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in soil at concentrations exceeding their RSL. <p>Soil Gas</p> <ul style="list-style-type: none"> ▪ Tetrachloroethene (exceeded RSL – 1 of 1 sample) <p>Public Water Supply</p> <ul style="list-style-type: none"> ▪ No chemicals were detected in tap water at concentrations exceeding their RSL or USMCL.

Notes:

EF - Exceedance factor

CNCEF – Cumulative noncancer EF

CCEF – Cumulative cancer EF

RSL – USEPA Regional risk-based Screening Level

¹A noncancer EF of one is equivalent to a hazard index of one

²A cancer EF of 10 is equivalent to a cancer risk of 1x10⁻⁵ or one in 100,000

³Media that have cumulative EFs greater than one and the associated number of residences

⁴Chemicals that have EFs greater than one (i.e., concentration was greater than RSL)

⁵Assuming that tap water IS used for drinking, cooking, brushing teeth, and making ice

⁶Assuming that tap water IS NOT used for drinking, cooking, brushing teeth, and making ice

Table 6-1: U.S. Government-Related Sites - Risk Summary Table for Chemicals in Soil

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC-Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	U.S. Consulate
Total Carcinogenic PAHs (BaP TEQs)	CEF 2.0	--	--	CEF 65.6	CEF 25.7	CEF 12.0	--	CEF 1.7	CEF 13.3	CEF 17.2
Total dioxin/furans (2,3,4,8-TCDD TEQs)	--	--	--	--	--	--	--	--	CEF 2.9	CEF 1.2
Number of Samples Collected	10	12	11	6	10	10	0	10	9	1

Notes:

-- = Concentration was less than the RSL or no samples collected

BaP TEQs = Benzp(a)pyrene toxic equivalents

CEF = Cancer exceedance factor (maximum detected)

RSL = United States Environmental Protection Agency's regional screening level

TCDD TEQs = Tetrachlorodibenzo-p-dioxin toxic equivalents

Table 6-2: U.S. Government-Related Sites - Risk Summary Table for Chemicals in Soil Gas

Chemical	Parco Artemide	Parco Eva	Parco Le Ginestre	NAVFAC-Leased Homes	Gricignano Support Site	Capodichino	Lago Patria Receiver Site	Carney Park	JFC NATO	U.S. Consulate
Chloroform	--	--	CEF 9.0	--	--	--	--	--	--	--
Tetrachloroethene	--	CEF 9.9	CEF 171.7	--	--	--	--	--	--	--
Number of Samples Collected	10	10	9	6	0	0	0	0	0	0

Notes:

-- = Concentration was less than the RSL or no samples collected

CEF = Cancer exceedance factor (maximum detected)

RSL = United States Environmental Protection Agency's regional screening level

Table 6-3: U.S. Government-Related Sites - Risk Summary Table for Chemicals in Tap Water

Chemical	Parco Artemide		Parco Eva		Parco Le Ginestre		NAVFAC-Leased Homes		Gricignano Support Site		Capodichino		Lago Patria Receiver Site		Carney Park		JFC NATO		U.S. Consulate	
	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only
Bromodichloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	CEF 2.1	--	--	--	--	--	--
Chloroform	--	--	--	--	CEF 1.9	CEF 1.8	CEF 1.1	CEF 1.0	CEF 2.6	CEF 2.3	CEF 2.4	CEF 2.2	--	--	CEF 4.4	CEF 4.0	--	--	CEF 2.0	CEF 1.8
Dibromochloromethane	--	--	--	--	CEF 1.3	--	--	--	CEF 2.1	--	CEF 2.5	--	--	--	CEF 7.4	--	--	--	CEF 1.3	--
Lead	NCEF 1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	CEF 48.1 NCEF 1.1	CEF 48.1 NCEF 1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	NCEF 11.4	--	NCEF 1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	--	--	--	--	CEF 22.8	CEF 3.1	CEF 2.1	--	--	--	--	--	--	--	CEF 1.2	--	--	--	CEF 5.2	--
Total Coliforms	--	--	--	--	USMCL	USMCL	USMCL	USMCL	--	--	--	--	--	--	--	--	--	--	--	--
Total dioxins/furans (2,3,4,8-TCDD TEQs)	--	--	CEF 4.1	--	CEF 1.6	--	--	--	CEF 2.4	--	--	--	--	--	--	--	--	--	CEF 2.1	--
Number of Samples Collected	10		10		10		6		10		10		3		3		3		4	

Notes:
 -- = Concentration was less than the RSL or no samples collected
 CEF = Cancer exceedance factor (maximum detected)
 NCEF = Noncancer exceedance factor (maximum detected)
 RSL = United States Environmental Protection Agency's regional screening level
 TCDD TEQs = Tetrachlorodibenzo-p-dioxin toxic equivalents
 USMCL = Exceeded United States maximum contaminant level

Table 6-4: U.S. Government-Related Sites - Risk Summary Table for Chemicals in Irrigation Wells

Chemical	Parco Artemide		Parco Eva		Parco Le Ginestre		NAVFAC-Leased Homes		Grignano Support Site		Capodichino		Lago Patria Receiver Site		Carney Park		JFC NATO		U.S. Consulate	
	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only	Ingestion+Inhalation	Inhalation Only						
Bis(2-ethylhexyl)phthalate	--	--	--	--	CEF 5.6 USMCL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	--	--	--	--	CEF 1.4	CEF 1.3	--	--	CEF 29.1	CEF 26.3	--	--	--	--
Fecal Coliforms	--	--	--	--	USMCL	USMCL	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	--	--	--	--	NCEF 1.1 USMCL	--	--	--	USMCL	--	USMCL	--	--	USMCL	--	--	--	--	--	--
Nitrite	--	--	--	--	--	--	--	--	USMCL	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	--	--	--	--	CEF 10.1	CEF 1.4	--	--	CEF 5.4	--	CEF 7.9	CEF 1.1	--	--	CEF 3.0	--	--	--	--	--
Total Coliforms	--	--	--	--	USMCL	USMCL	--	--	USMCL	USMCL	--	--	--	--	USMCL	USMCL	--	--	--	--
Total dioxins/furans (2,3,4,8-TCDD TEQs)	--	--	--	--	CEF 1.3	--	--	--	CEF 10.4	--	--	--	--	--	CEF 1.6	--	--	--	--	--
Trichloroethene	--	--	--	--	--	--	--	--	--	--	CEF 1.6	CEF 1.1	--	--	--	--	--	--	--	--
Uranium	--	--	--	--	USMCL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	--	--	--	--	NCEF 1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Number of Samples Collected	0		0		1		0		9		1		0		2		0		0	

Notes:

-- = Concentration was less than the RSL or no samples collected
 CEF = Cancer exceedance factor (maximum detected)
 NCEF = Noncancer exceedance factor (maximum detected)
 RSL = United States Environmental Protection Agency's regional screening level
 TCDD TEQs = Tetrachlorodibenzo-p-dioxin toxic equivalents
 USMCL = Exceeded United States maximum contaminant level

FIGURES



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Naples Regional Map
Phase I Naples Public Health Evaluation
Naples, Italy

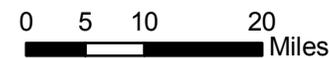
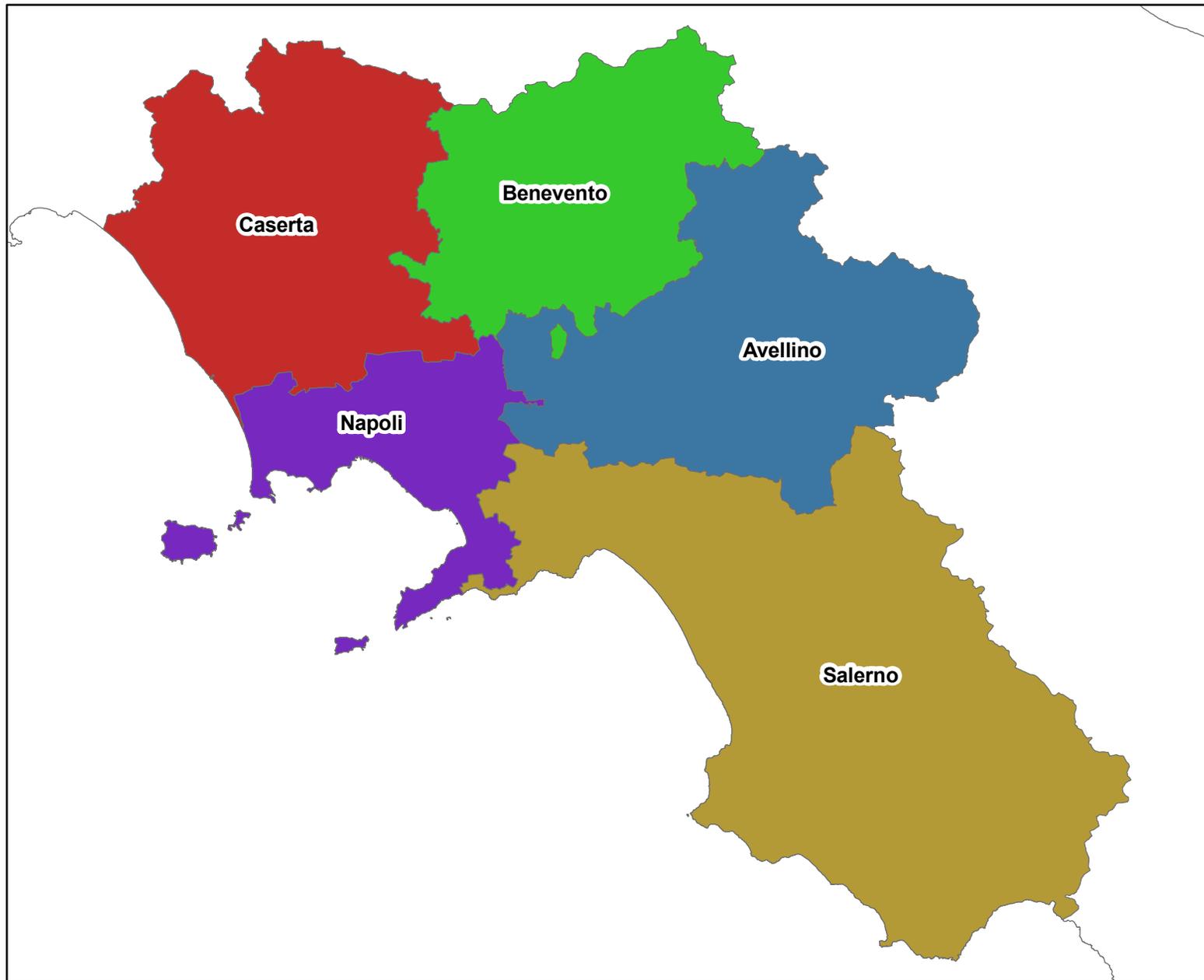
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PROJECT:

DATE:
March 2009

FIGURE NO.:
1-1



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Campania Provinces
Phase I Naples Public Health Evaluation
Naples, Italy

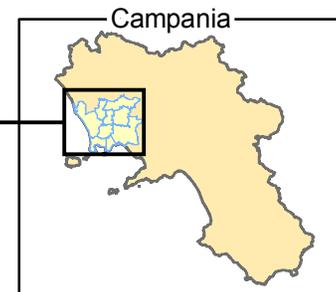
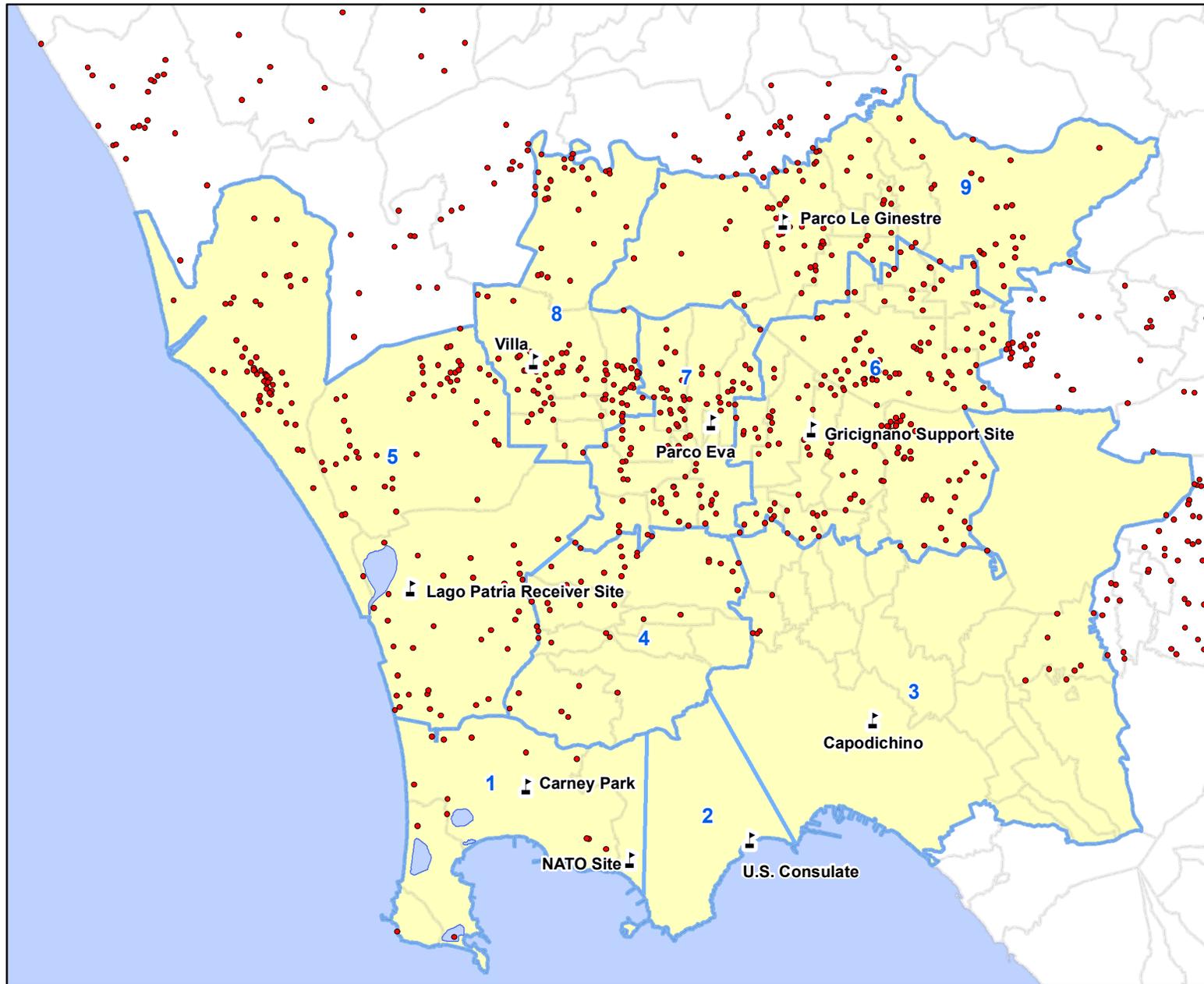
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DATE:
March 2009

FIGURE NO.:
1-2



Legend

- ▬ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)

0 1.25 2.5 5 Miles



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**Study Areas and Trash or Potential Hazardous Waste Sites
Phase I Naples Public Health Evaluation
Naples, Italy**

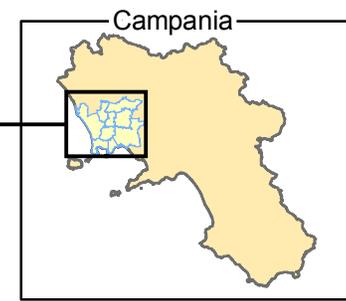
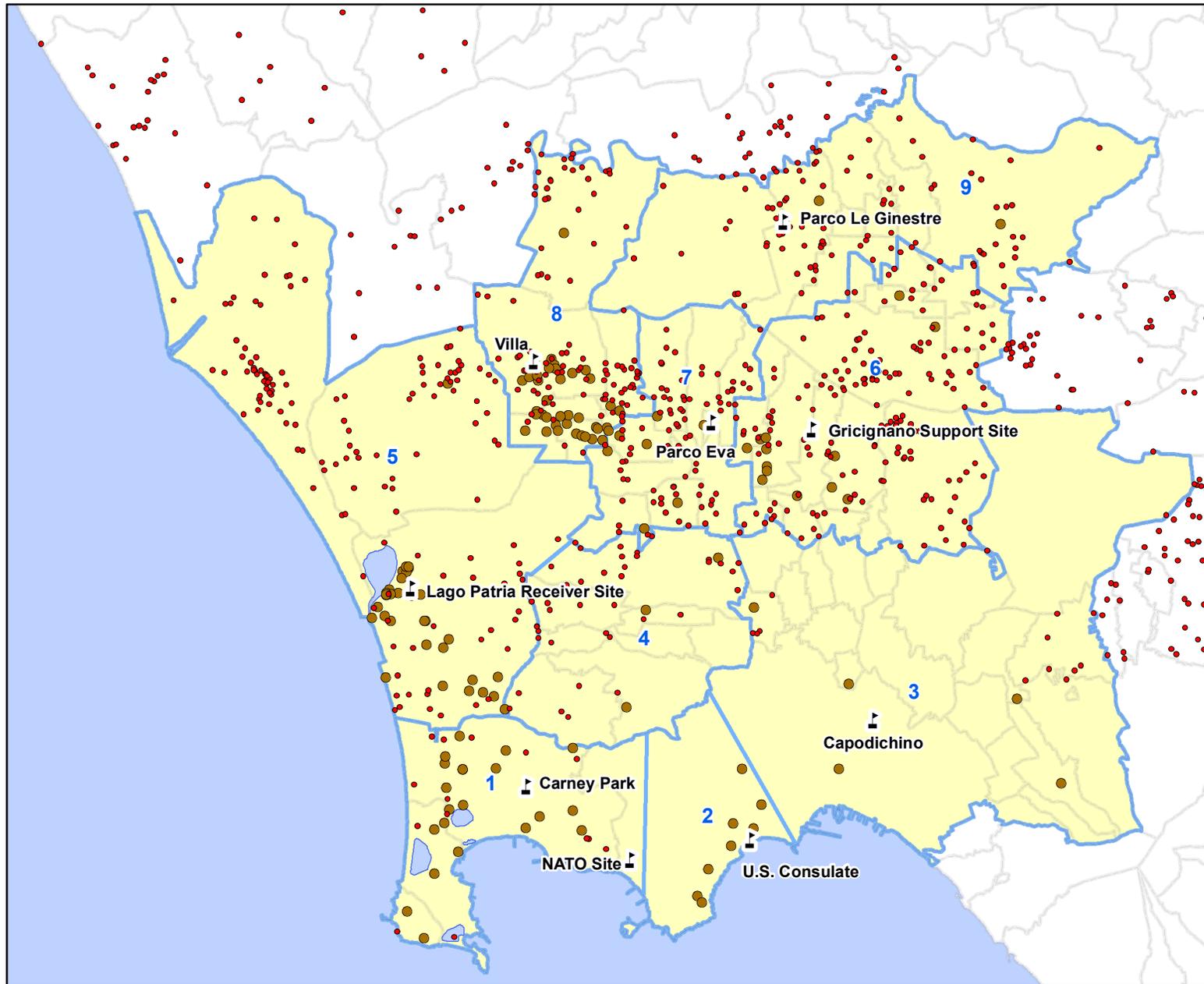
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March 2009

FIGURE NO.:
1-3



Legend

- Air Sampling Locations (Gov't Sites)
- Phase I Residence
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- Comune Borders (Campania)



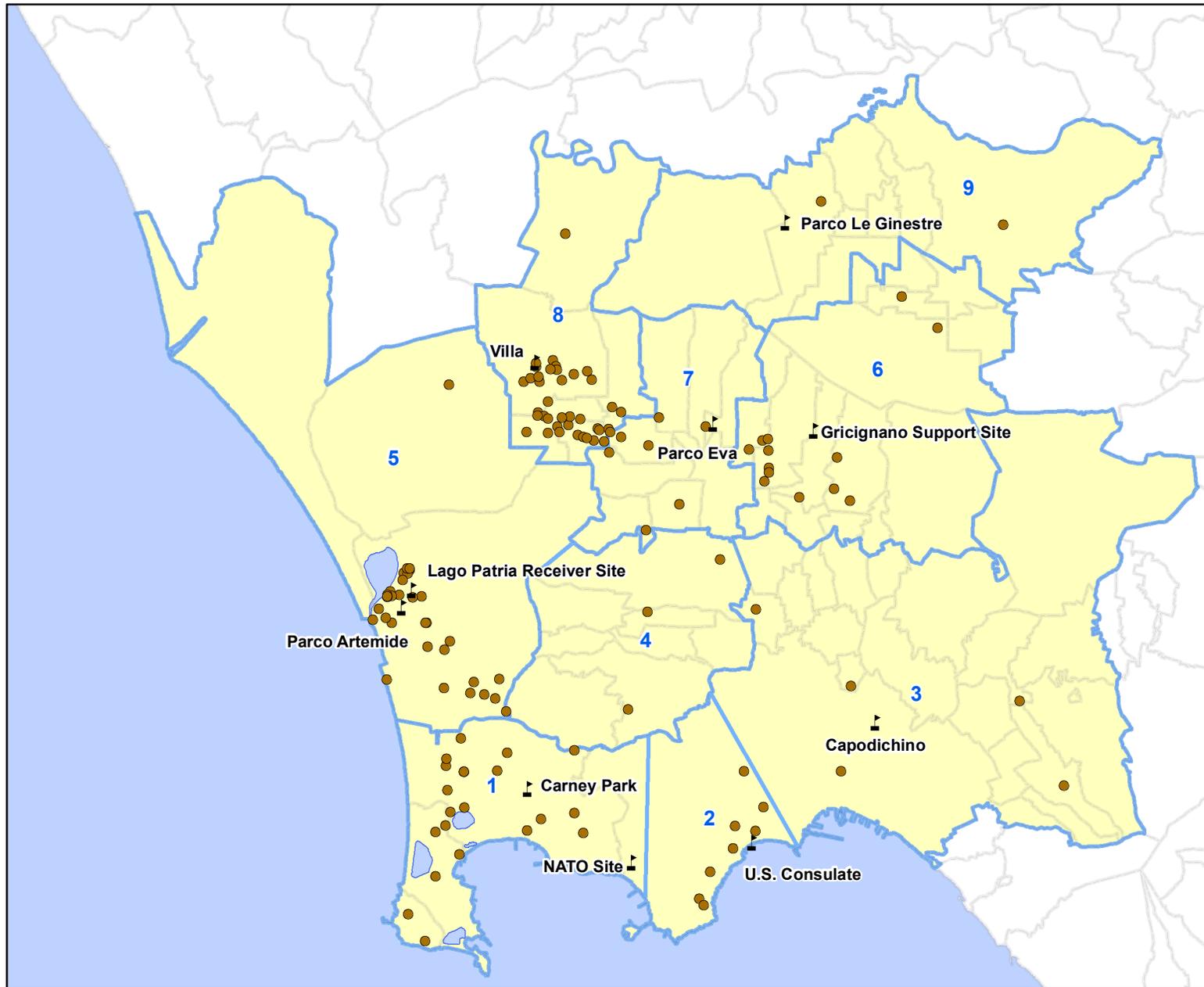
**Residence/Sampling Locations with
 Relation to Trash or Potential Hazardous Waste Sites
 Phase I Naples Public Health Evaluation
 Naples, Italy**
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DATE:
March 2009

FIGURE NO.:
2-1



Phase I Residence and U.S. Government-Related Locations
Evaluated in the
Phase I Naples Public Health Evaluation
Naples, Italy

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DATE:
March 2009

FIGURE NO.:
2-2



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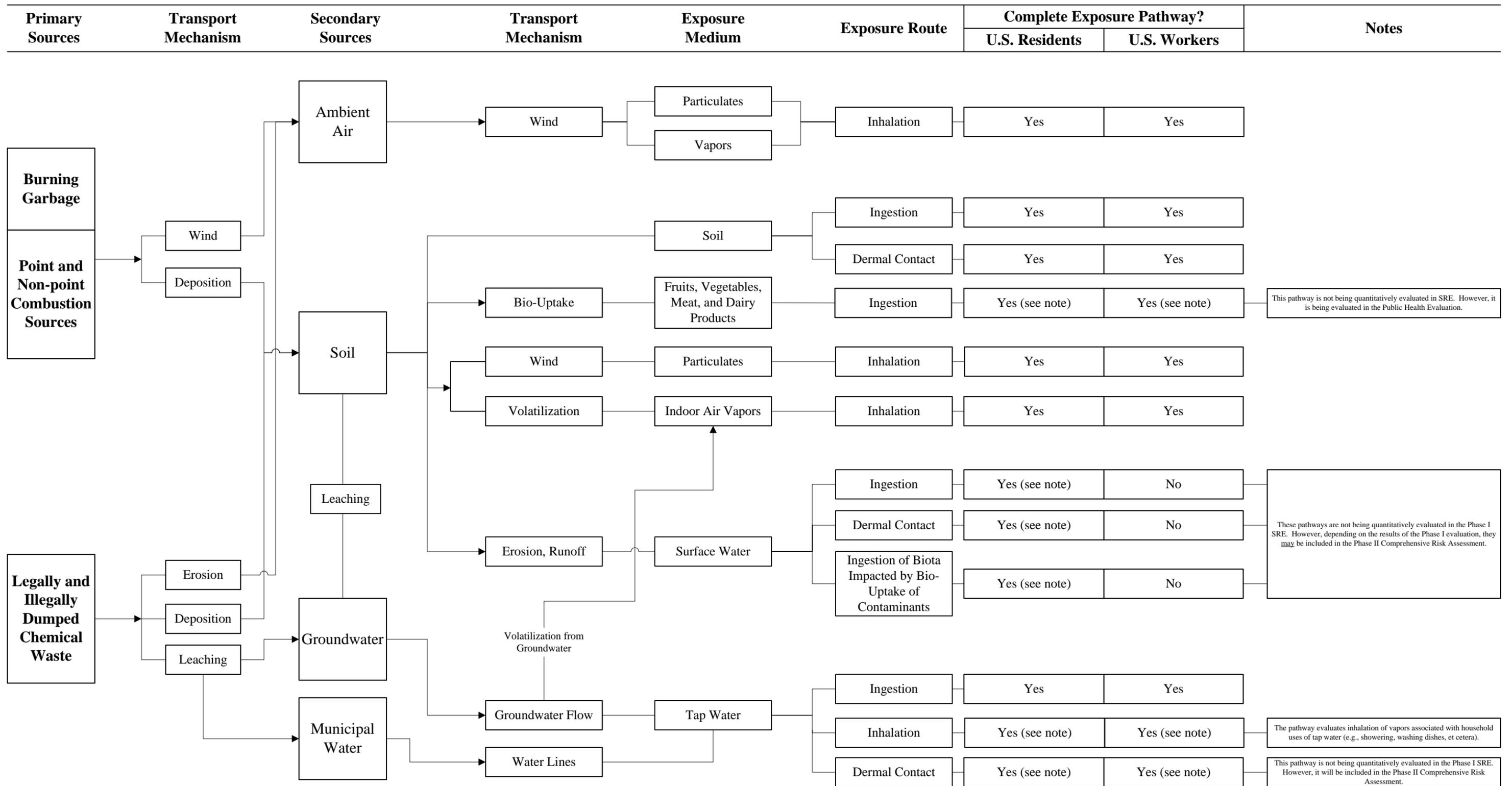
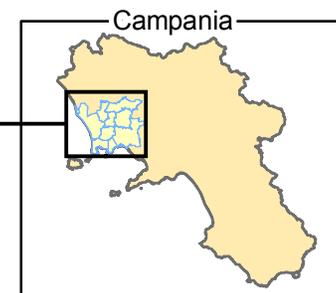
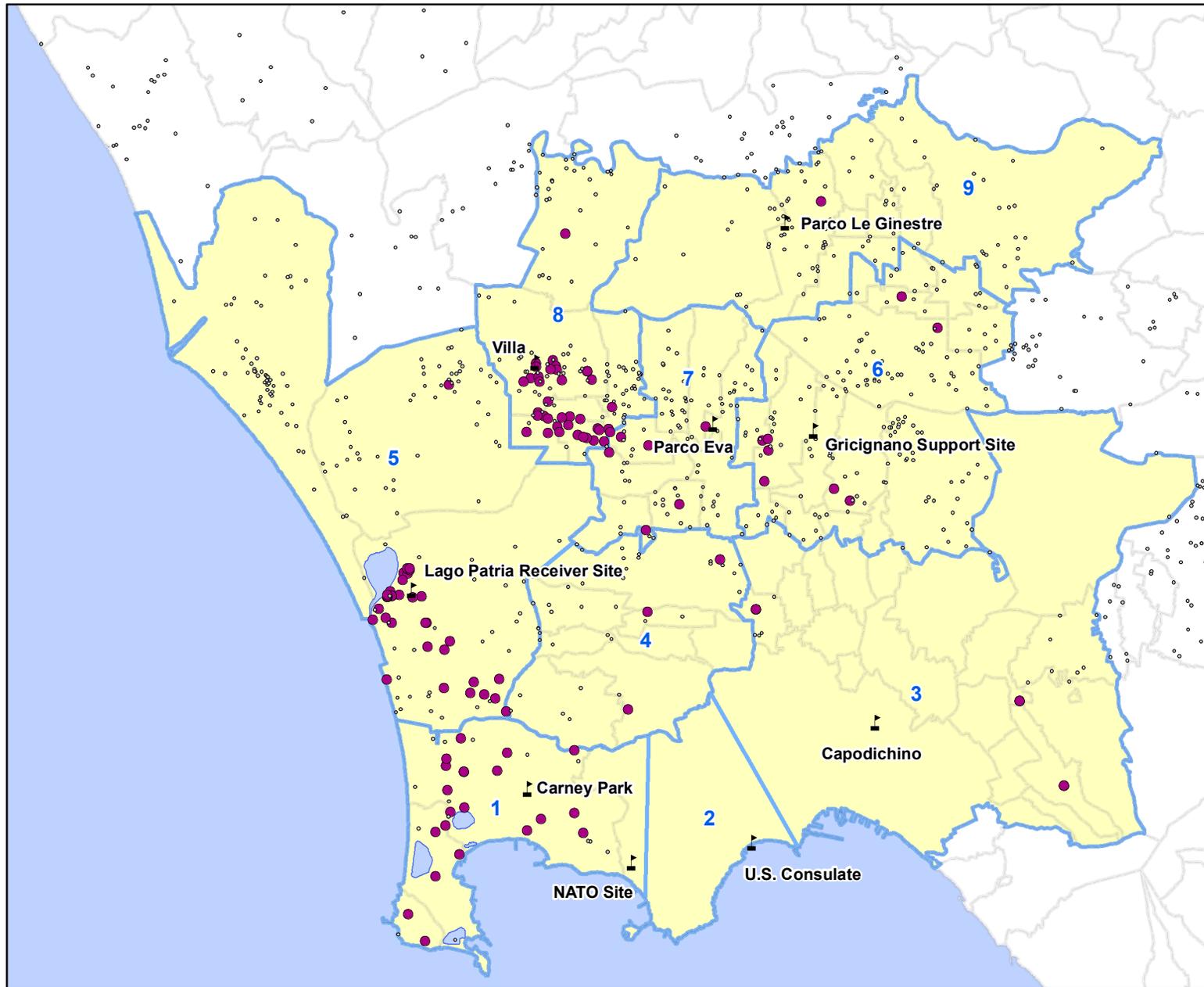


Figure 3-1
Conceptual Site Model
 Naples, Italy Public Health Evaluation





Legend

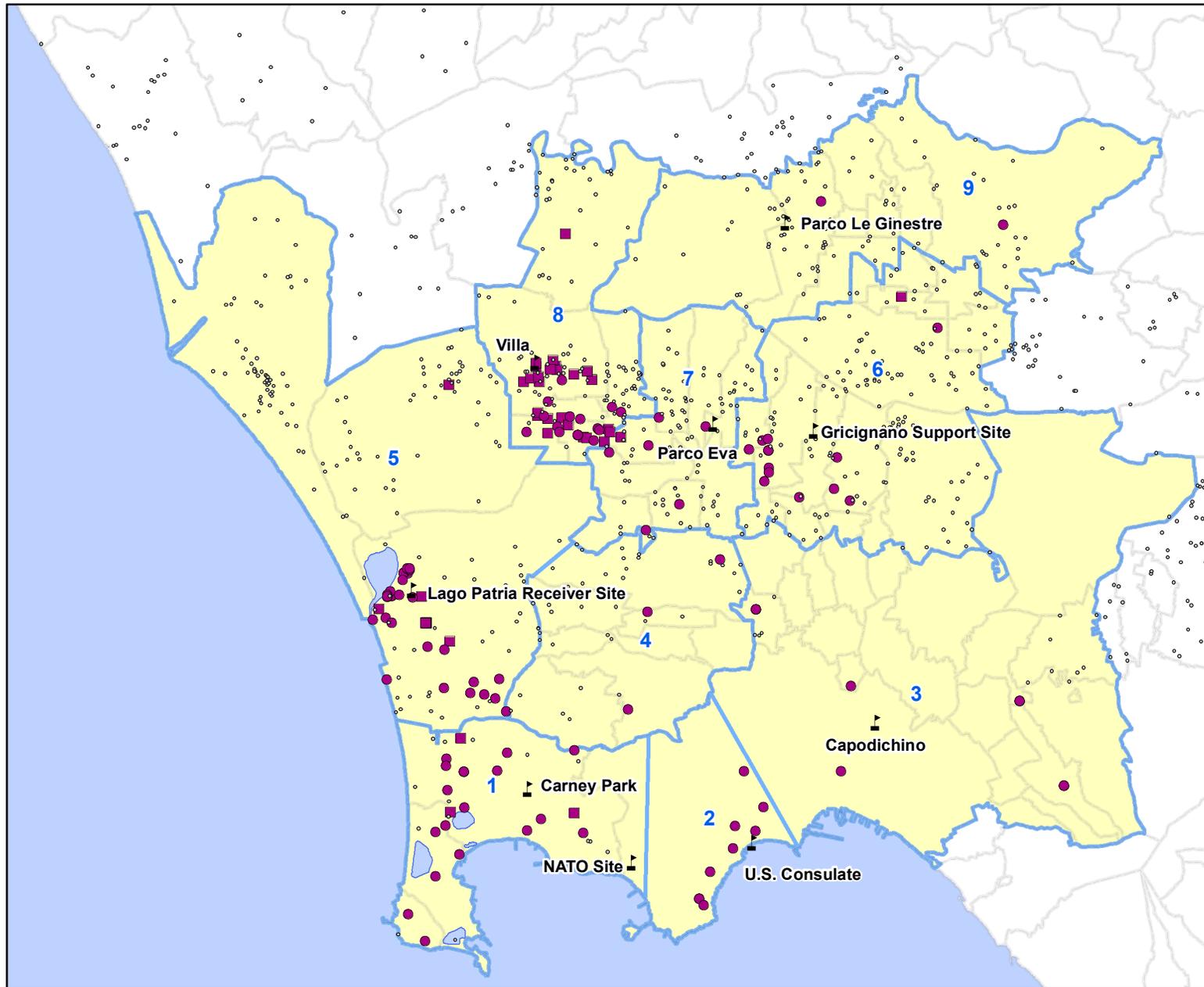
- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Soil Noncancer RSL Exceedance**
- NCEF > 1
- Soil Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Soil without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect

Note:
 -CEF = Cancer Exceedance Factor
 -NCEF = Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Regional Screening Level
 -Some residence locations may appear as a single location due to the proximity of the residences.



Soil Arsenic Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-1

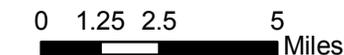


Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Public Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Public Tap Water Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Public Tap Water without Exceedance**
- CEF or NCEF <= 1 or Concentration < USMCL
- Non-Detect
- Private Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Private Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Private Tap Water without Exceedance**
- CEF or NCEF <= 1 or Concentration < USMCL
- Non-Detect

Note:

- CEF = Cancer Exceedance Factor
- NCEF = Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- USMCL = United States Maximum Contaminant Level
- Exceedance factors are calculated assuming exposure via ingestion and inhalation.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.

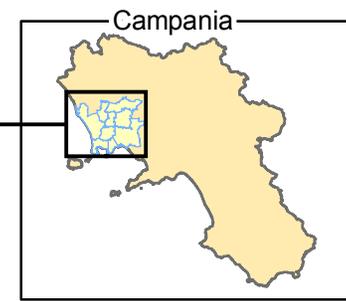
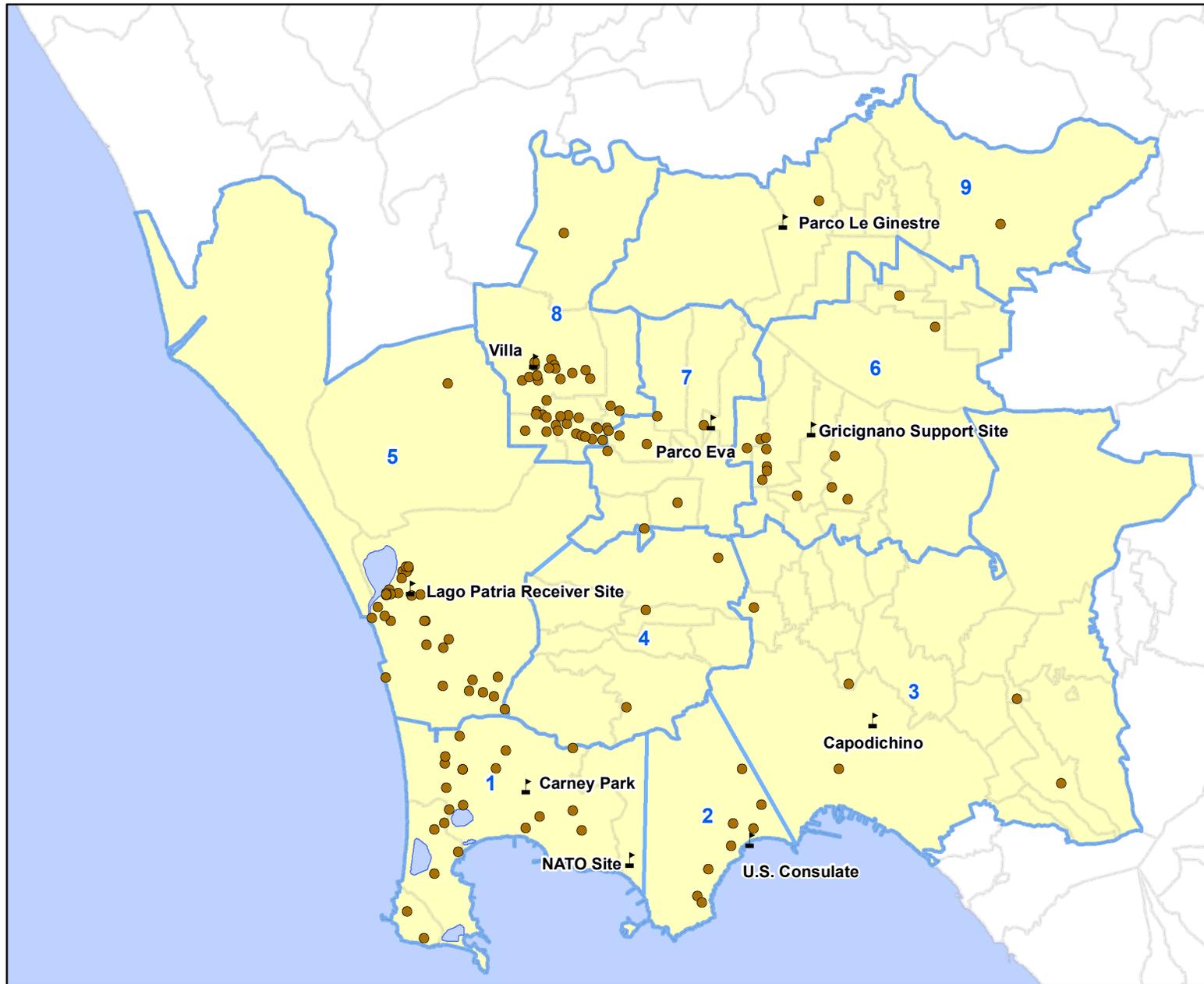


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**Tap Water Ingestion and Inhalation Arsenic Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy**

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-2

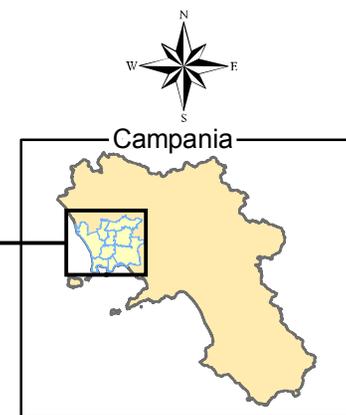
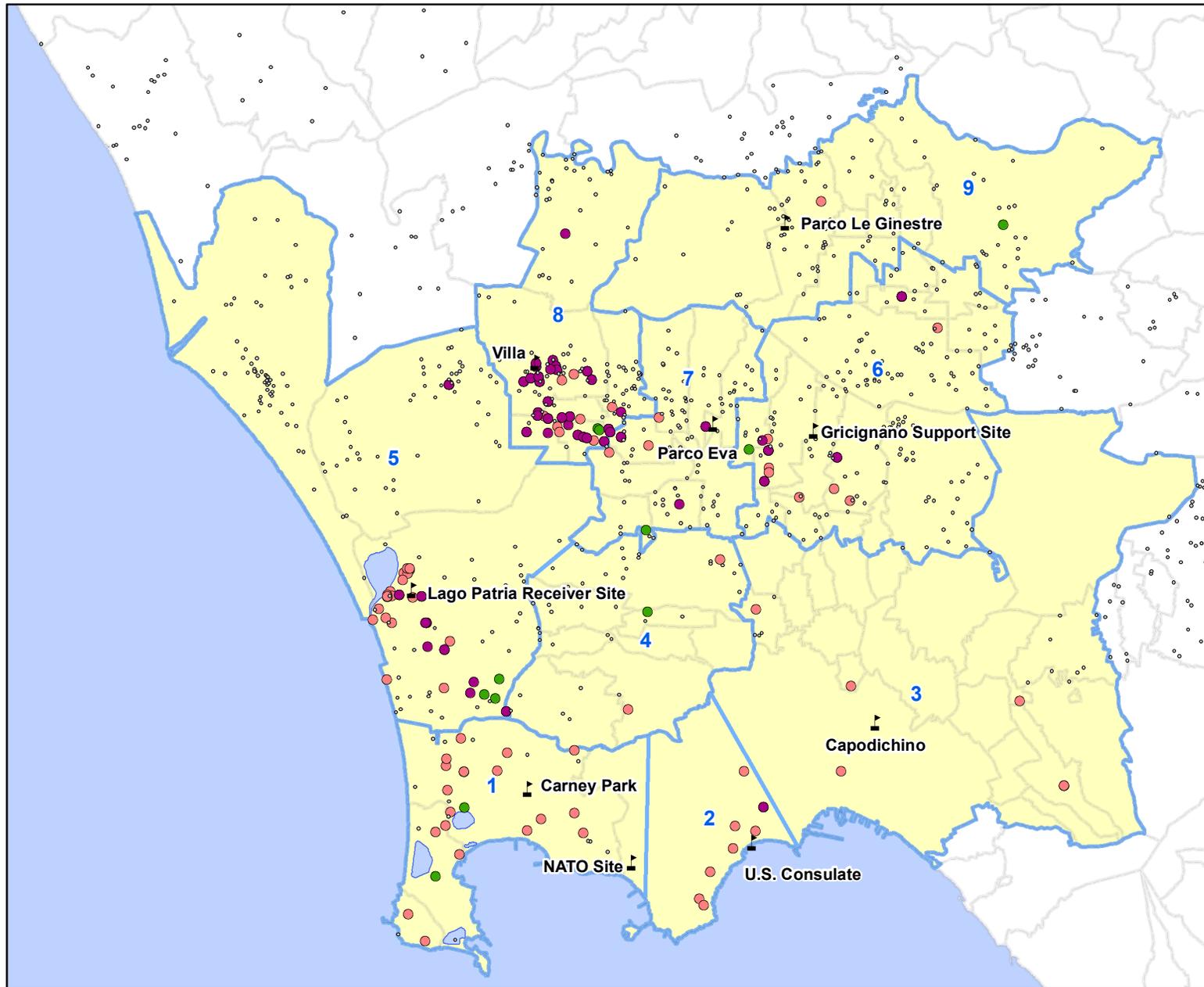


- Legend**
- ▲ Air Sampling Locations (Gov't Sites)
 - Phase I Residence
 - ▭ Study Area Boundary (1-9)
 - ▭ Comune Borders (Campania)



Phase I Residences
Phase I Naples Public Health Evaluation
Naples, Italy
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-3



- Legend**
- ▲ Air Sampling Locations (Gov't Sites)
 - Trash or Potential Hazardous Waste Sites
 - ▭ Study Area Boundary (1-9)
 - ▭ Comune Borders (Campania)
 - Residence is Unacceptable**
 - Tap Water Concentration > USMCL
 - Total CNCEF > 1
 - Total CCEF > 10
 - Residence is Acceptable**
 - 1 < Total CCEF <= 10
 - Total CCEF or Total CNCEF <= 1 or Concentration < USMCL

Note:

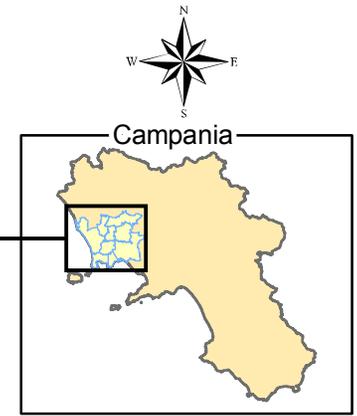
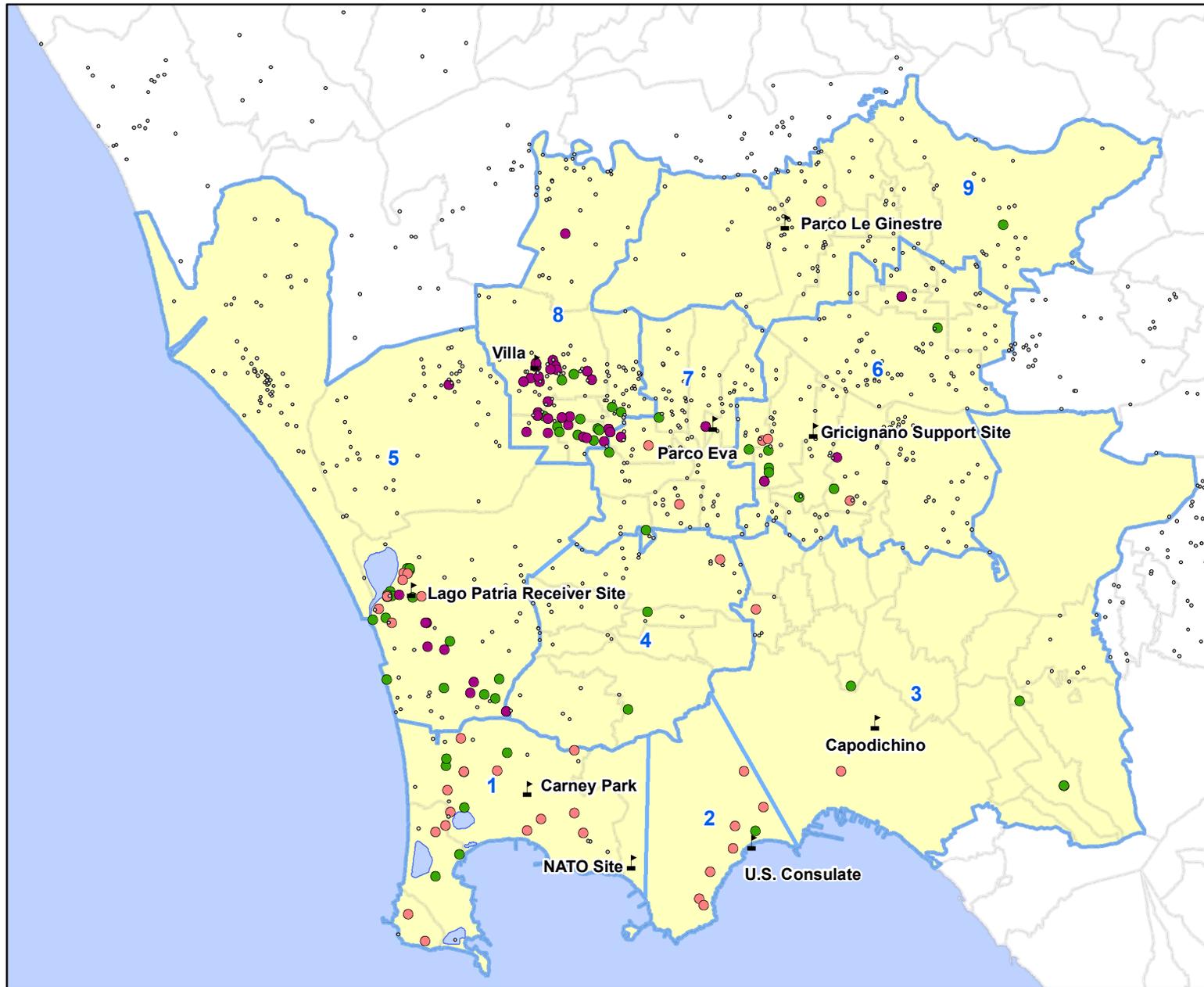
- CCEF = Cumulative Cancer Exceedance Factor
- CNCEF = Cumulative Noncancer Exceedance Factor
- The total cumulative ingestion and inhalation exceedance factors are calculated assuming exposure via soil, soil gas, and tap water (ingestion and inhalation) for both public water and private well sources.
- USMCL = United States Maximum Contaminant Level
- USMCL exceedances apply to all chemicals for the ingestion and inhalation exposure scenario.
- Figure does not include ambient air exposure.
- Some residence locations may appear as a single location due to the proximity of the residences.



**Total Ingestion and Inhalation Cumulative Exceedance Factors
Phase I Naples Public Health Evaluation
Naples, Italy**

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-4



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Residence is Unacceptable**
- Tap Water Concentration > USMCL
- Total CNEF > 1
- Total CCEF > 10
- Residence is Acceptable**
- 1 < Total CCEF <= 10
- Total CCEF or Total CNEF <= 1 or Concentration < USMCL

Note:

- CCEF = Cumulative Cancer Exceedance Factor
- CNEF = Cumulative Noncancer Exceedance Factor
- The total cumulative inhalation exceedance factors are calculated assuming exposure via soil, soil gas, and tap water (inhalation-only) for both public water and private well sources.
- USMCL = United States Maximum Contaminant Level
- USMCL exceedances only apply to fecal and total coliforms (including fecal coliform and e. coli) for the inhalation-only exposure scenario.
- Figure does not include ambient air exposure.
- Some residence locations may appear as a single location due to the proximity of the residences.



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**Total Inhalation Cumulative Exceedance Factors
Phase I Naples Public Health Evaluation
Naples, Italy**

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DWN:

KR

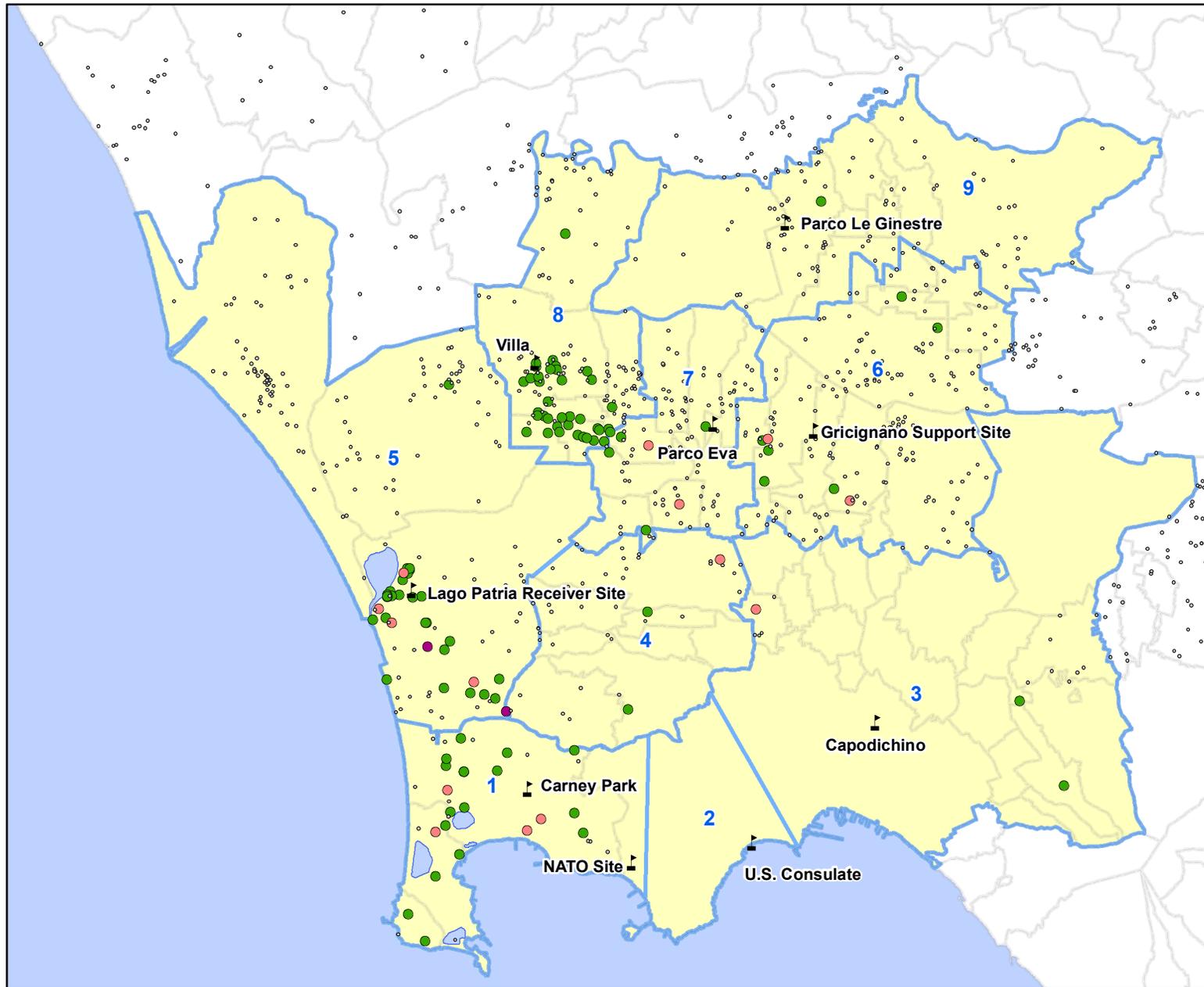
PROJECT:

DATE:

March 2009

FIGURE NO.:

4-5



Legend

- Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- Comune Borders (Campania)
- Soil Cancer RSL Exceedance**
 - 1 < CCEF <= 10
 - CCEF > 10
- Soil Noncancer RSL Exceedance**
 - CNCEF > 1
- Soil without RSL Exceedance**
 - CCEF or CNCEF <= 1

Note:
 -CCEF = Cumulative Cancer Exceedance Factor
 -CNCEF = Cumulative Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Residential Regional Screening Level
 -Some residence locations may appear as a single location due to the proximity of the residences.



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**Soil Cumulative Exceedance Factors
 Phase I Naples Public Health Evaluation
 Naples, Italy**

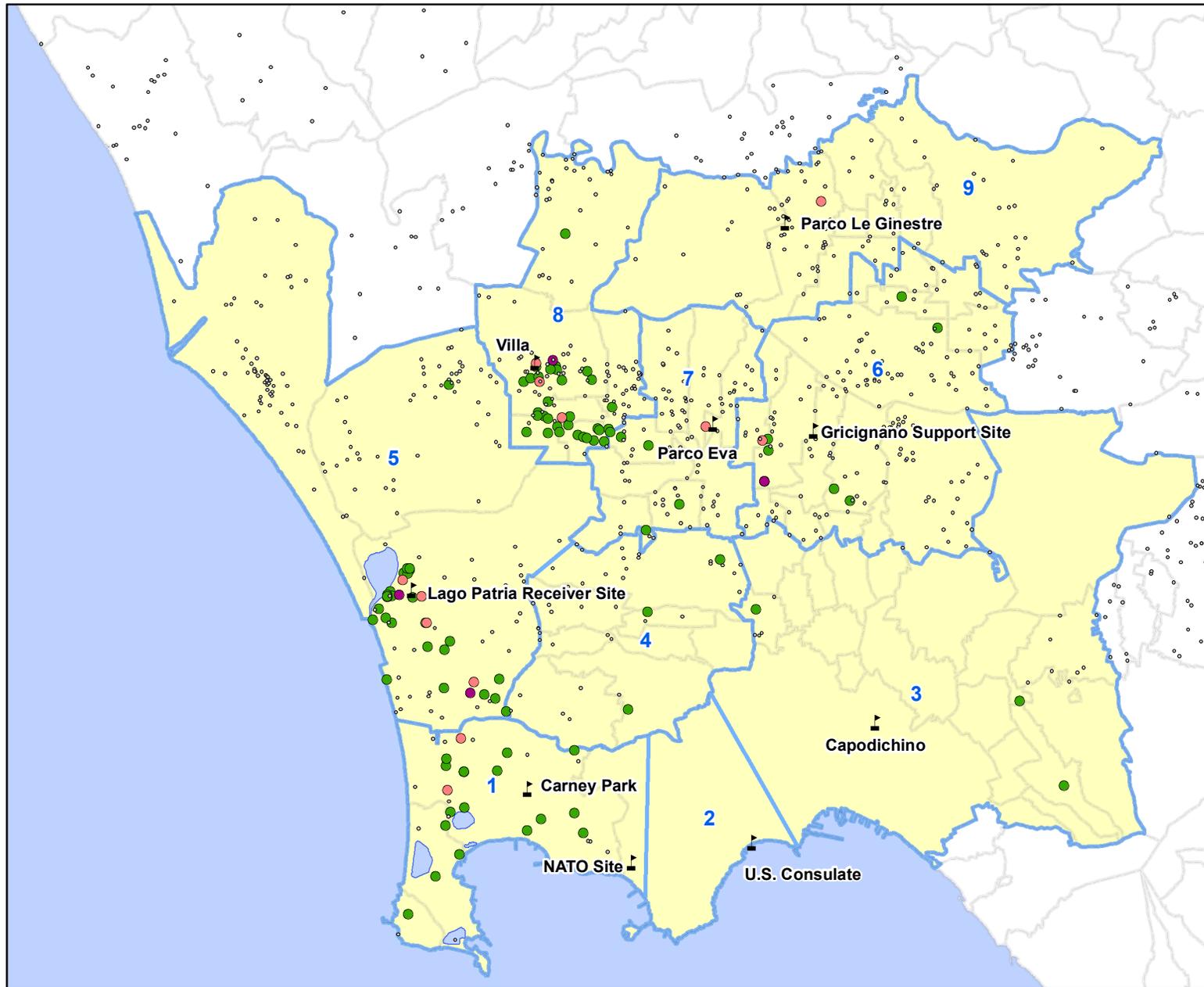
- For Internal Navy Use Only -

DWN:
 KR

PROJECT:

DATE:
 March 2009

FIGURE NO.:
 4-6



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Soil Gas Cancer RSL Exceedance**
- 1 < CCEF <= 10
- CCEF > 10
- Soil Gas Noncancer RSL Exceedance**
- CNCEF > 1
- Soil Gas without RSL Exceedance**
- CCEF or CNCEF <= 1

Note:
 -CCEF = Cumulative Cancer Exceedance Factor
 -CNCEF = Cumulative Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Residential Regional Screening Level
 -Some residence locations may appear as a single location due to the proximity of the residences.

0 1.25 2.5 5 Miles



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**Soil Gas Cumulative Exceedance Factors
 Phase I Naples Public Health Evaluation
 Naples, Italy**

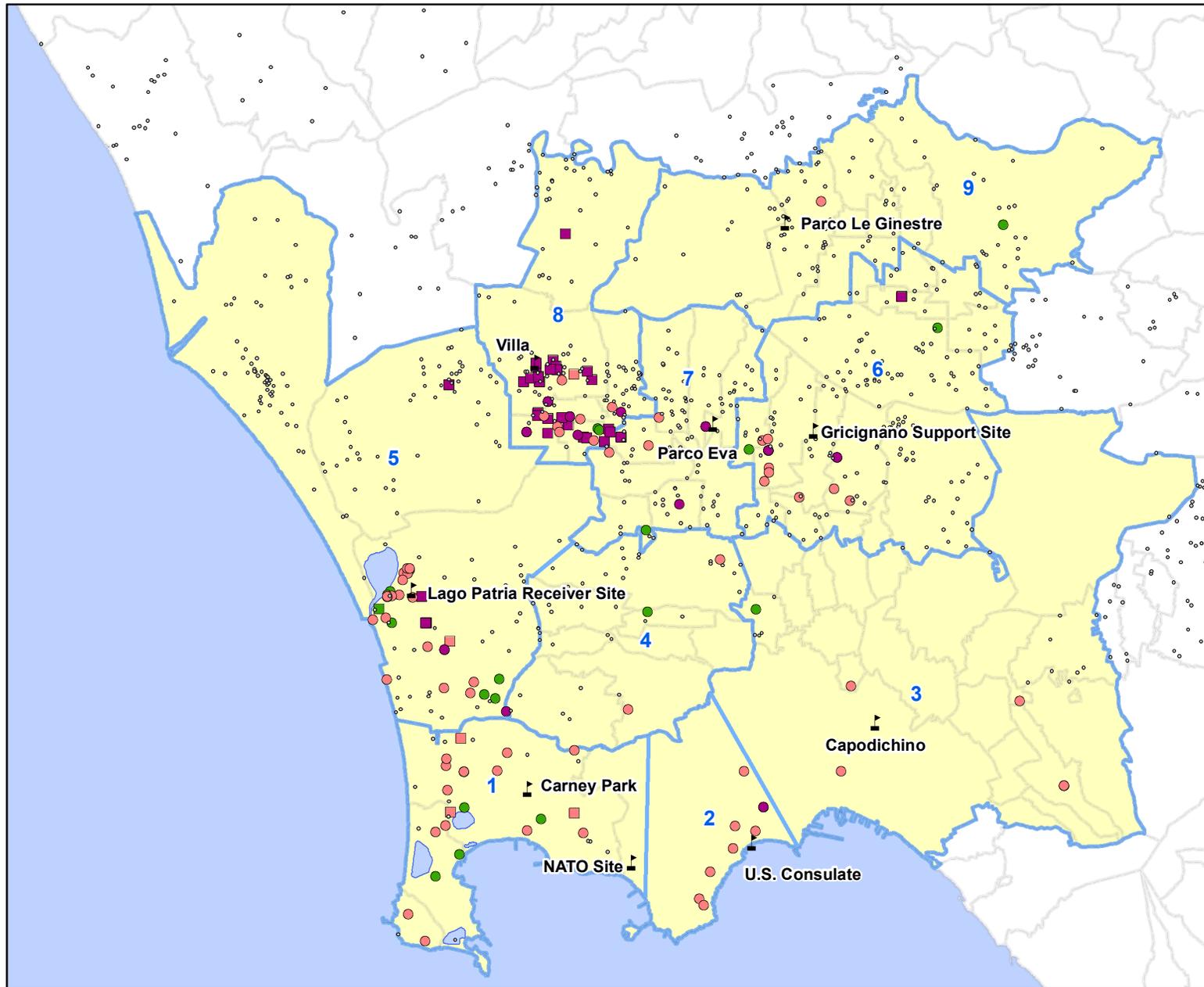
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DWN:
 KR

PROJECT:

DATE:
 March 2009

FIGURE NO.:
 4-7



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Public Tap Water Noncancer RSL Exceedance**
- CNCEF > 1
- Public Tap Water Cancer RSL Exceedance**
- 1 < CCEF ≤ 10
- CCEF > 10
- Public Tap Water without Exceedance**
- CCEF or CNCEF ≤ 1 or Concentration < USMCL
- Private Tap Water USMCL Exceedance**
- Tap Water Concentration > USMCL
- Private Tap Water Noncancer RSL Exceedance**
- CNCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CCEF ≤ 10
- CCEF > 10
- Private Tap Water without Exceedance**
- CCEF or CNCEF ≤ 1 or Concentration < USMCL

Note:

- CCEF = Cumulative Cancer Exceedance Factor
- CNCEF = Cumulative Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- Cumulative exceedance factors are calculated assuming exposure via inhalation and ingestion.
- USMCL = United States Maximum Contaminant Level
- USMCL exceedances apply to all chemicals for the ingestion and inhalation exposure scenario.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.

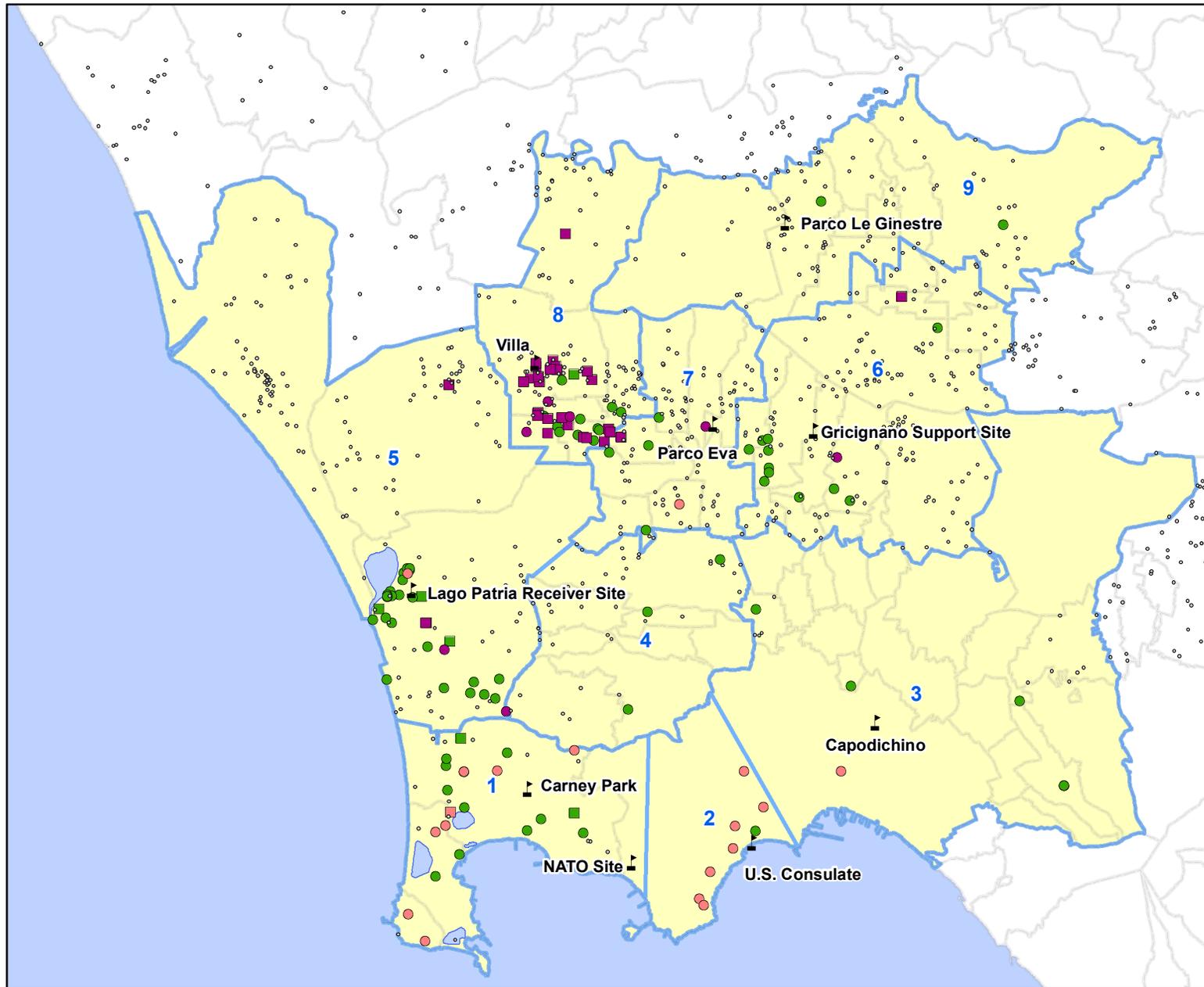


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**Tap Water Ingestion and Inhalation Cumulative Exceedance Factors
Phase I Naples Public Health Evaluation
Naples, Italy**

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-8



- Legend**
- ▲ Air Sampling Locations (Gov't Sites)
 - Trash or Potential Hazardous Waste Sites
 - Study Area Boundary (1-9)
 - ▭ Comune Borders (Campania)
 - Public Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
 - Public Tap Water Noncancer RSL Exceedance**
 - CNCEF <= 1
 - Public Tap Water Cancer RSL Exceedance**
 - 1 < CCEF <= 10
 - CCEF > 10
 - Public Tap Water without Exceedance**
 - CCEF or CNCEF <= 1 or Concentration < USMCL
 - Private Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
 - Private Tap Water Noncancer RSL Exceedance**
 - CNCEF > 1
 - Private Tap Water Cancer RSL Exceedance**
 - 1 < CCEF <= 10
 - CCEF > 10
 - Private Tap Water without Exceedance**
 - CCEF or CNCEF <= 1 or Concentration < USMCL

Note:

- CCEF = Cumulative Cancer Exceedance Factor
- CNCEF = Cumulative Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- Cumulative exceedance factors are calculated assuming exposure via inhalation only.
- USMCL = United States Maximum Contaminant Level
- USMCL exceedances only apply to fecal and total coliforms (including fecal coliform and e. coli) for the inhalation-only exposure scenario.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.

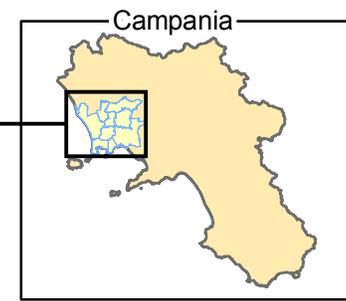
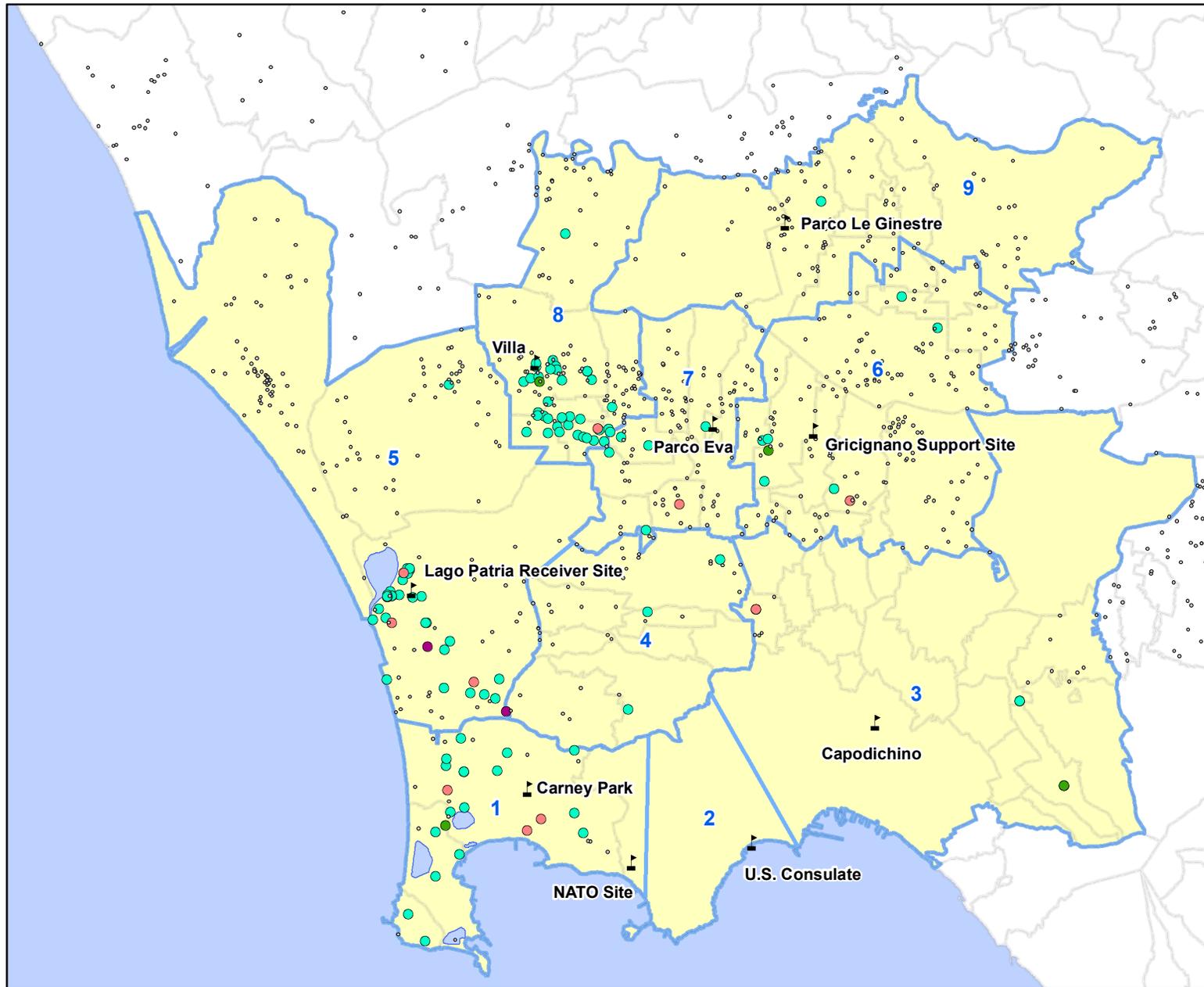


Tap Water Inhalation Cumulative Exceedance Factors Phase I Naples Public Health Evaluation

Naples, Italy

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-9



Legend

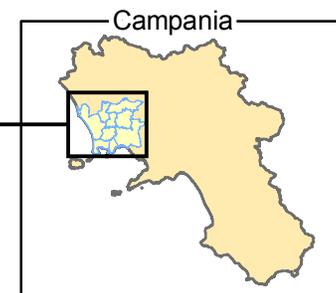
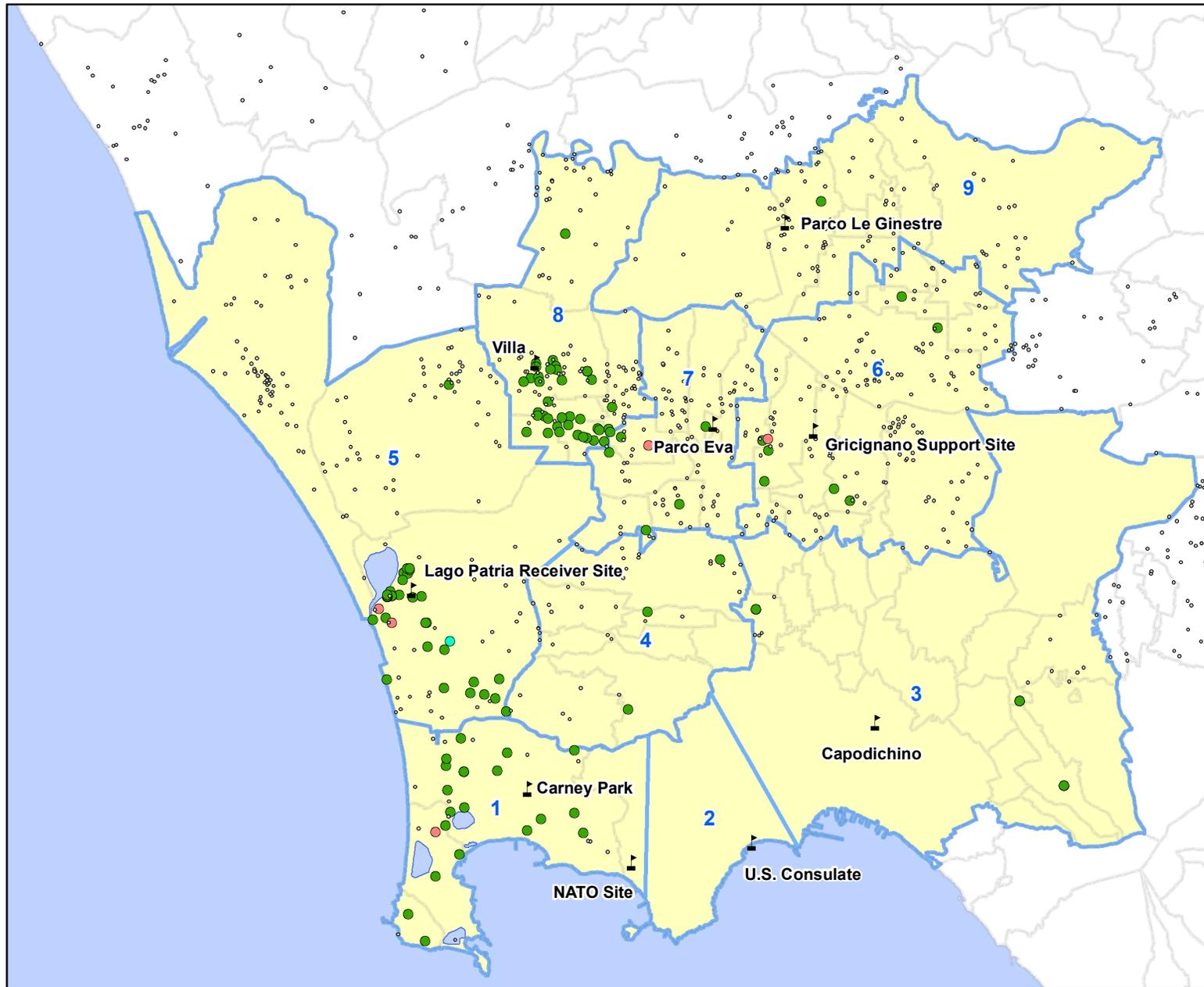
- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Soil Noncancer RSL Exceedance**
- NCEF > 1
- Soil Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Soil without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect

Note:
 -BaP TEQs-Benzo(a)pyrene Toxic Equivalents
 -PAHs = Polycyclic Aromatic Hydrocarbons
 -CEF = Cancer Exceedance Factor
 -NCEF = Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Regional Screening Level
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Soil Total Carcinogenic PAHs (BaP TEQs) Exceedances
 Phase I Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-10



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Soil Noncancer RSL Exceedance**
- NCEF > 1
- Soil Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Soil without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect

Note:
 -CEF = Cancer Exceedance Factor
 -NCEF = Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Regional Screening Level
 -TCDD TEQs-Tetrachlorodibenzo-p-dioxin Toxic Equivalents
 -Some residence locations may appear as a single location due to the proximity of the residences.



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**Soil Total Dioxins/Furans (2,3,7,8-TCDD TEQs) Exceedances
 Phase I Naples Public Health Evaluation
 Naples, Italy**

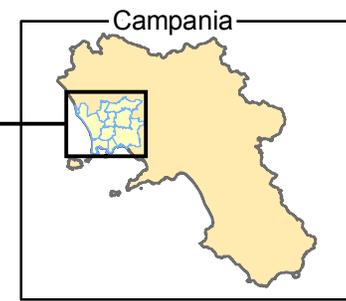
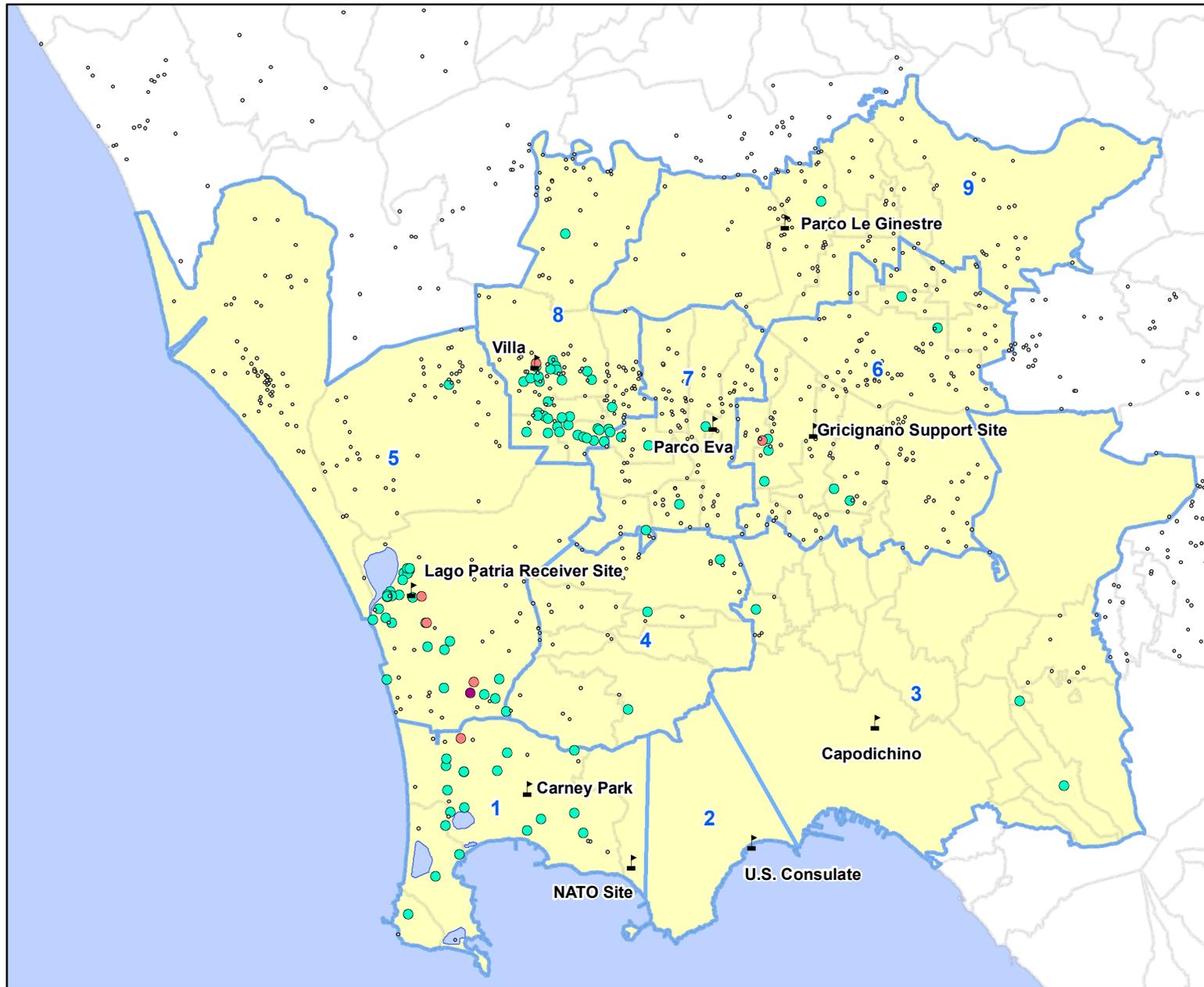
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DWN:
KR

PROJECT:

DATE:
March 2009

FIGURE NO.:
4-11



Legend

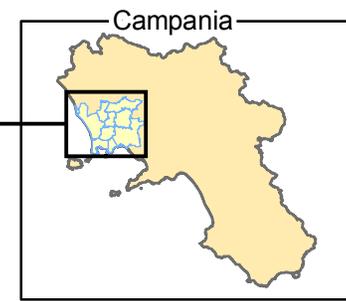
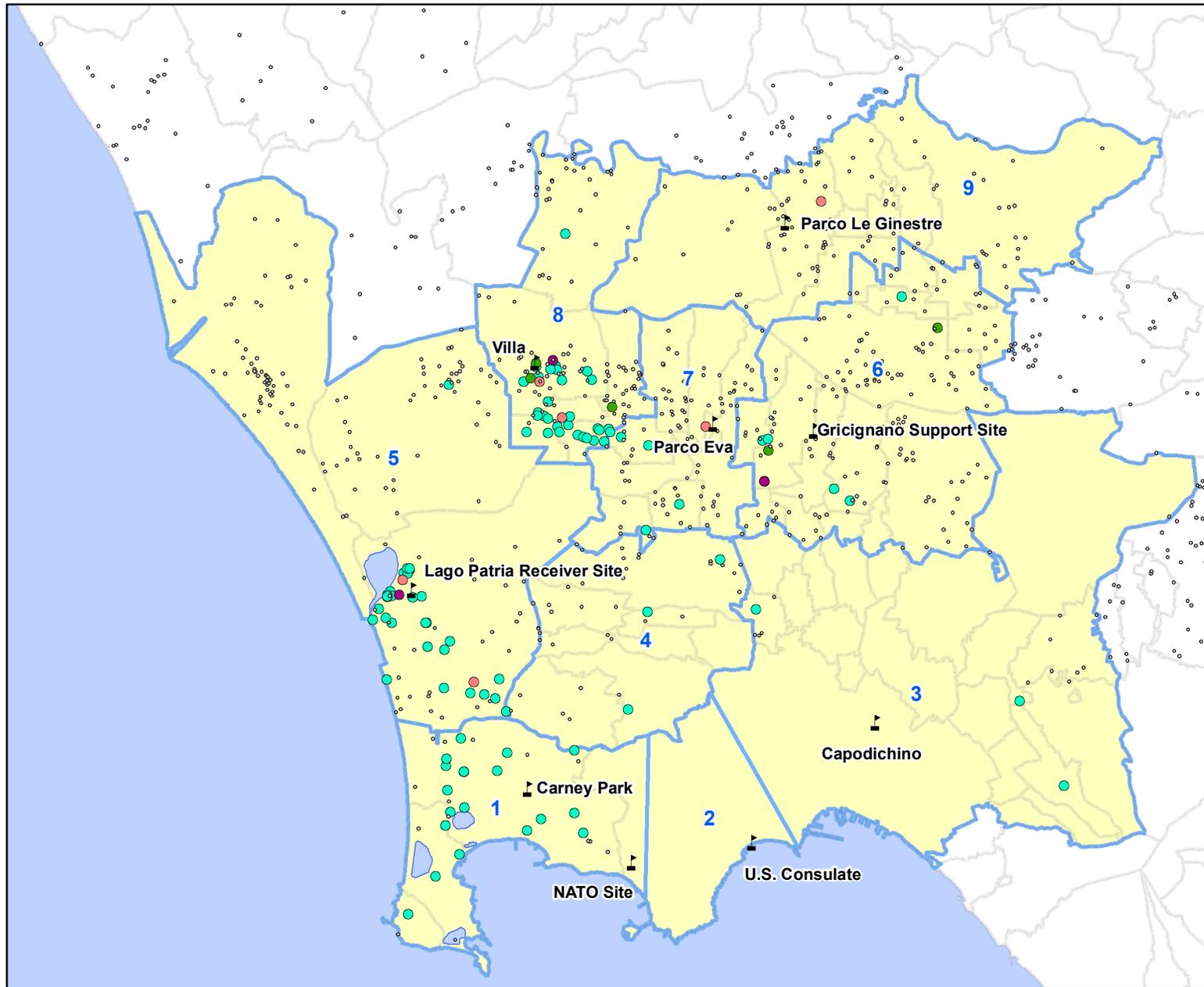
- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- ▭ Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Soil Gas Noncancer RSL Exceedance**
- NCEF > 1
- Soil Gas Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Soil Gas Without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect

Note:
 -CEF = Cancer Exceedance Factor
 -NCEF = Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Regional Screening Level
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Soil Gas Chloroform Exceedances
 Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-12



Legend

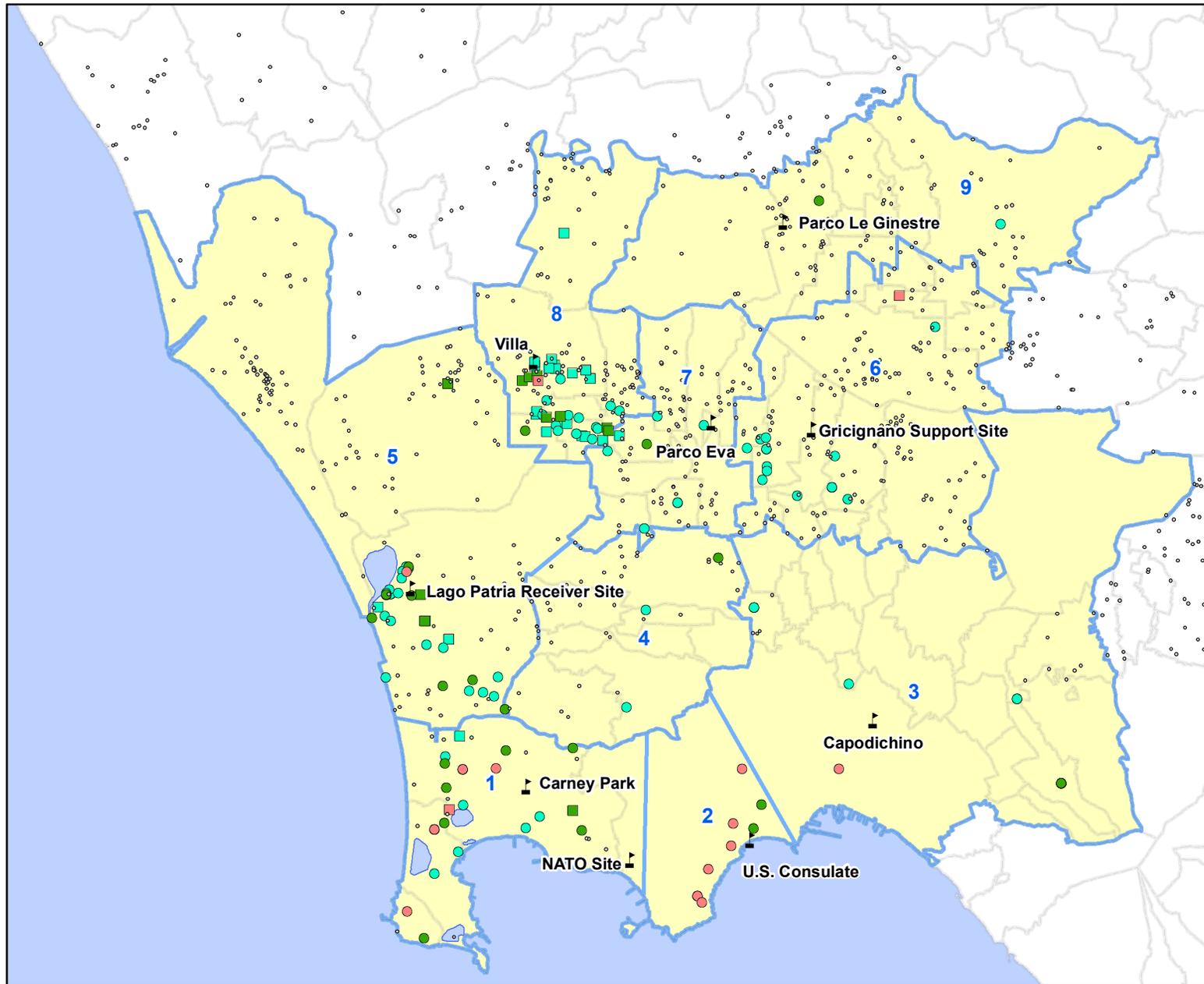
- Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- Comune Borders (Campania)
- Soil Gas Noncancer RSL Exceedance**
- NCEF > 1
- Soil Gas Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Soil Gas without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect

Note:
 -CEF = Cancer Exceedance Factor
 -NCEF = Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Regional Screening Level
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Soil Gas Tetrachloroethene Exceedances
 Phase I Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-13



- Legend**
- ▲ Air Sampling Locations (Gov't Sites)
 - Trash or Potential Hazardous Waste Sites
 - Study Area Boundary (1-9)
 - ▭ Comune Borders (Campania)
 - Public Tap Water Noncancer RSL Exceedance**
 - NCEF > 1
 - Public Tap Water Cancer RSL Exceedance**
 - 1 < CEF <= 10
 - CEF > 10
 - Public Tap Water without RSL Exceedance**
 - CEF or NCEF <= 1
 - Non-Detect
 - Private Tap Water Noncancer RSL Exceedance**
 - NCEF > 1
 - Private Tap Water Cancer RSL Exceedance**
 - 1 < CEF <= 10
 - CEF > 10
 - Private Tap Water without RSL Exceedance**
 - CEF or NCEF <= 1
 - Non-Detect

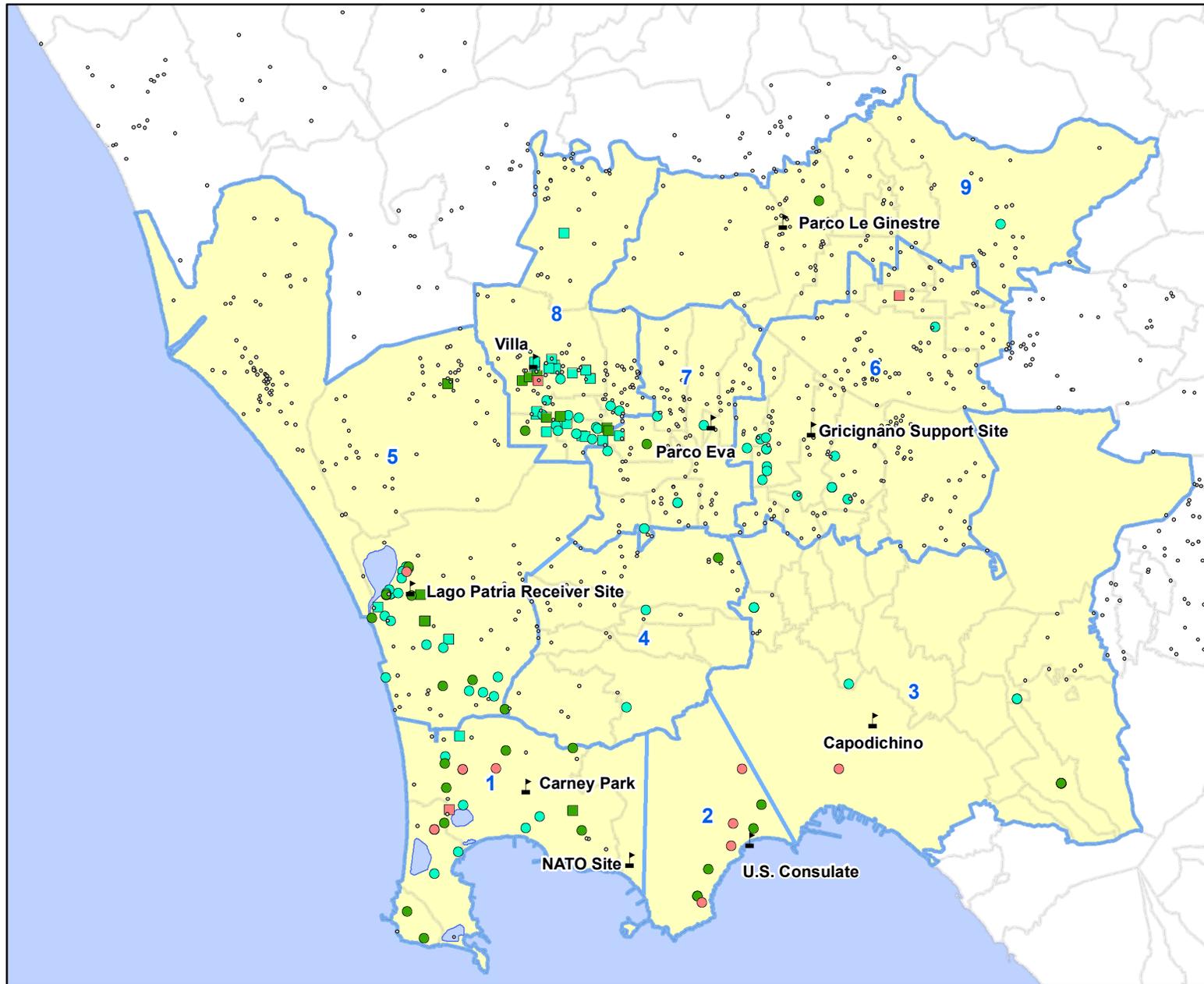
Note:

- CEF = Cancer Exceedance Factor
- NCEF = Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- Exceedance factors are calculated assuming exposure via ingestion and inhalation.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.



**Tap Water Ingestion and Inhalation Chloroform Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy**
- For Internal Navy Use Only -

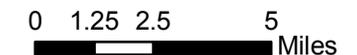
DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-14



Legend

- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Public Tap Water without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect
- Private Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CEF < 10
- CEF > 10
- Private Tap Water without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect

Note:
 -CEF = Cancer Exceedance Factor
 -NCEF = Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Residential Regional Screening Level
 -Exceedance factors are calculated assuming exposure via inhalation-only.
 -Private tap water refers to the residence having a private well as a water source for tap water.
 -Some residence locations may appear as a single location due to the close proximity of the residences.

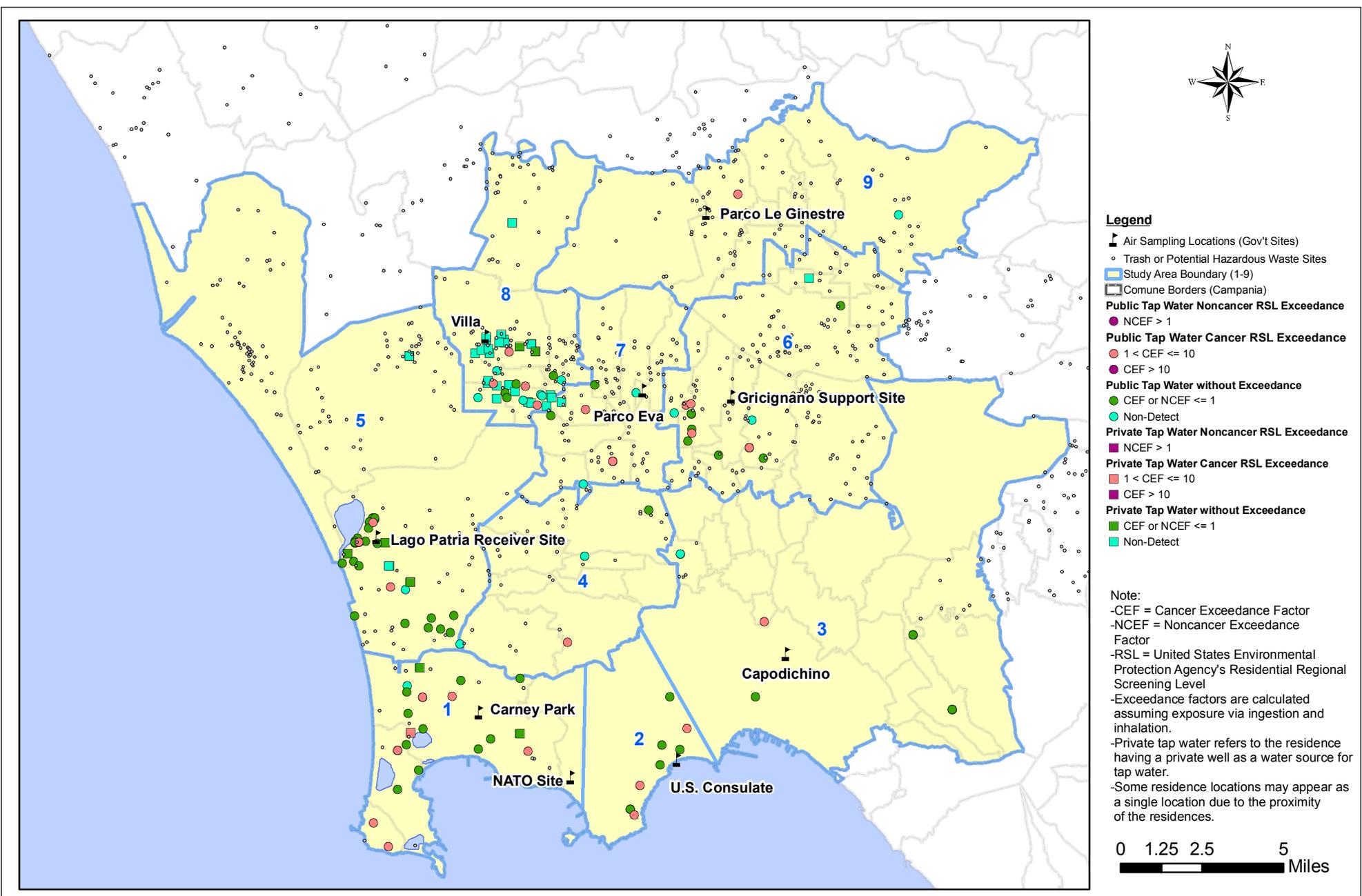


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Tap Water Inhalation Chloroform Exceedances Phase I Naples Public Health Evaluation Naples, Italy

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-15



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**Tap Water Ingestion and Inhalation Dibromochloromethane Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy**

- For Internal Navy Use Only -

DWN:

KR

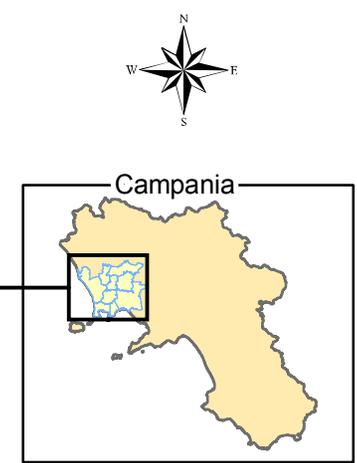
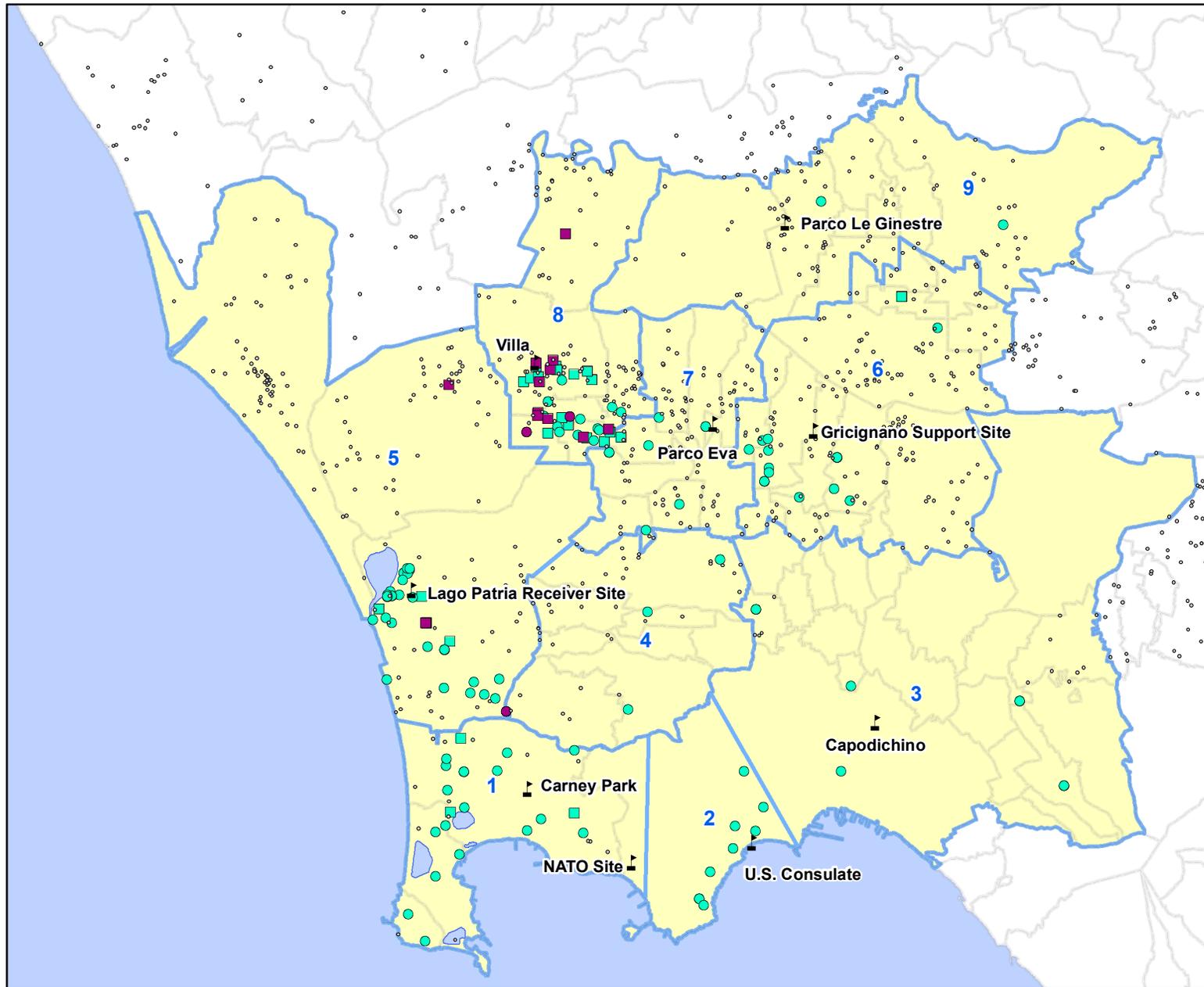
PROJECT:

DATE:

March 2009

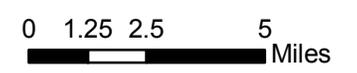
FIGURE NO.:

4-16



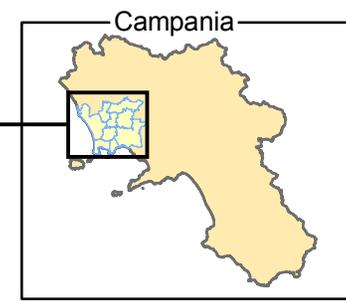
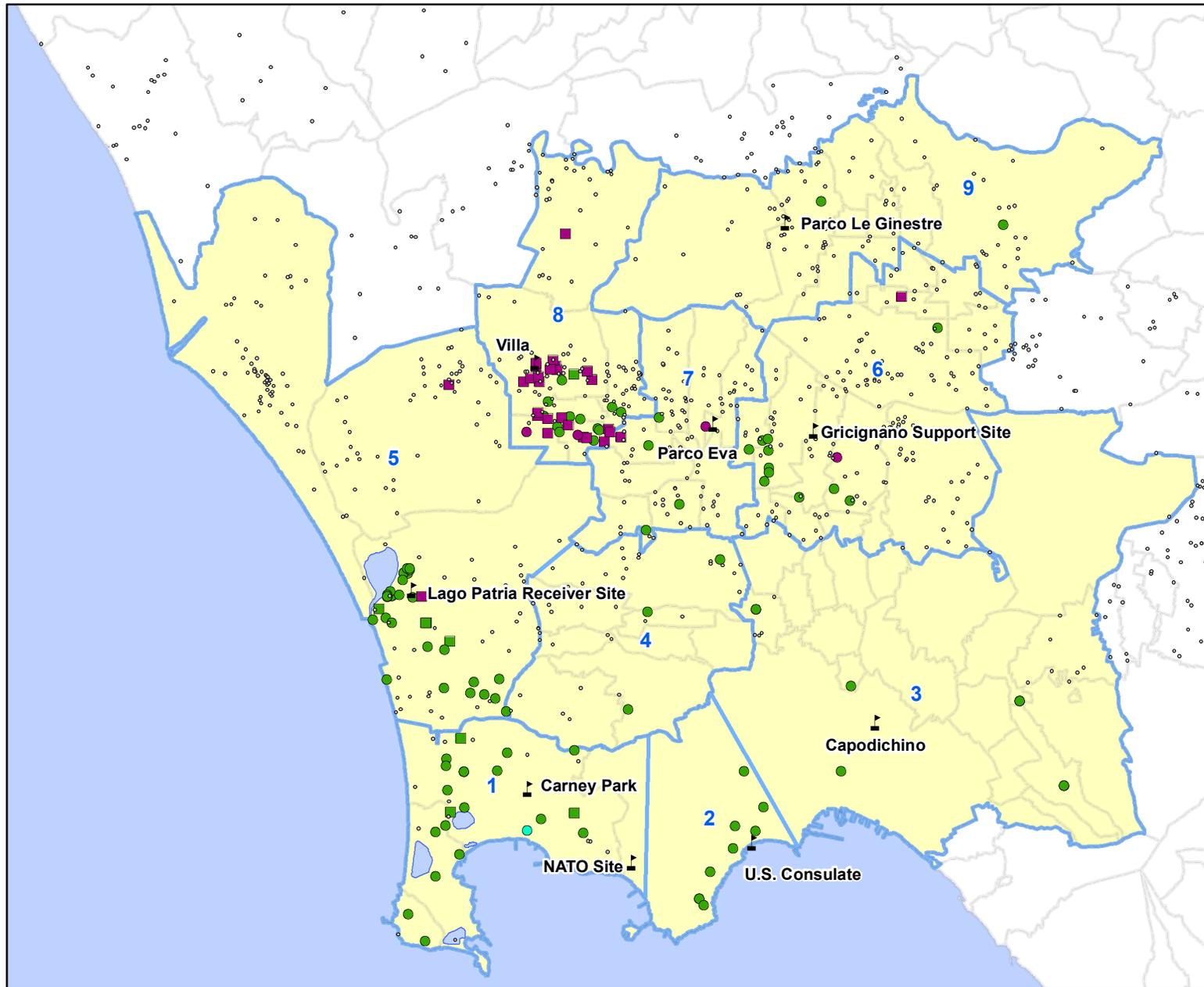
- Legend**
- Air Sampling Locations (Gov't Sites)
 - Trash or Potential Hazardous Waste Sites
 - Study Area Boundary (1-9)
 - Comune Borders (Campania)
 - Public Tap Water USMCL Exceedances**
 - Tap Water Concentration > USMCL
 - Non-Detect
 - Private Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
 - Non-Detect

Note:
 -USMCL = United States Maximum Contaminant Level
 -Private tap water refers to the residence having a private well as a water source for tap water.
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Tap Water Fecal Coliform Exceedances
 Phase I Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-17



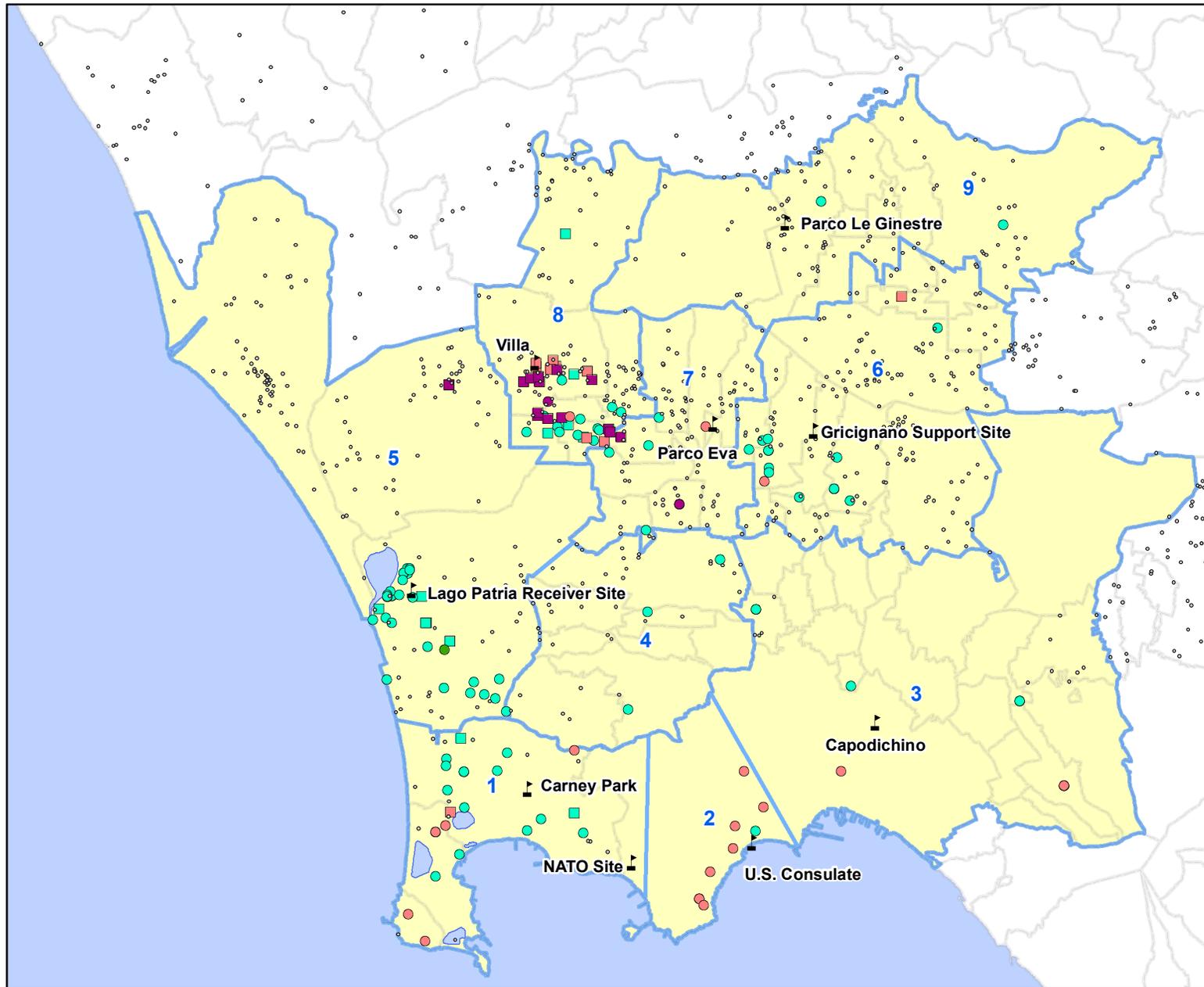
- Legend**
- Air Sampling Locations (Gov't Sites)
 - Trash or Potential Hazardous Waste Sites
 - Study Area Boundary (1-9)
 - Comune Borders (Campania)
 - Public Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
 - Public Tap Water without USMCL Exceedance**
 - Tap Water Concentration < USMCL
 - Non-Detect
 - Private Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
 - Private Tap Water without USMCL Exceedance**
 - Tap Water Concentration < USMCL
 - Non-Detect

Note:
 -USMCL = United States Maximum Contaminant Level
 -Private tap water refers to the residence having a private well as a water source for tap water.
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Tap Water Ingestion and Inhalation Nitrate Exceedances
 Phase I Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-18



Legend

- Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- Comune Borders (Campania)
- Public Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
- Public Tap Water Noncancer RSL Exceedance**
 - NCEF > 1
- Public Tap Water Cancer RSL Exceedance**
 - 1 < CEF <= 10
 - CEF > 10
- Public Tap Water without Exceedance**
 - CEF or NCEF <= 1 or Concentration < USMCL
 - Non-Detect
- Private Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
- Private Tap Water Noncancer RSL Exceedance**
 - NCEF > 1
- Private Tap Water Cancer RSL Exceedance**
 - 1 < CEF <= 10
 - CEF > 10
- Private Tap Water without Exceedance**
 - CEF or NCEF <= 1 or Concentration < USMCL
 - Non-Detect

Note:

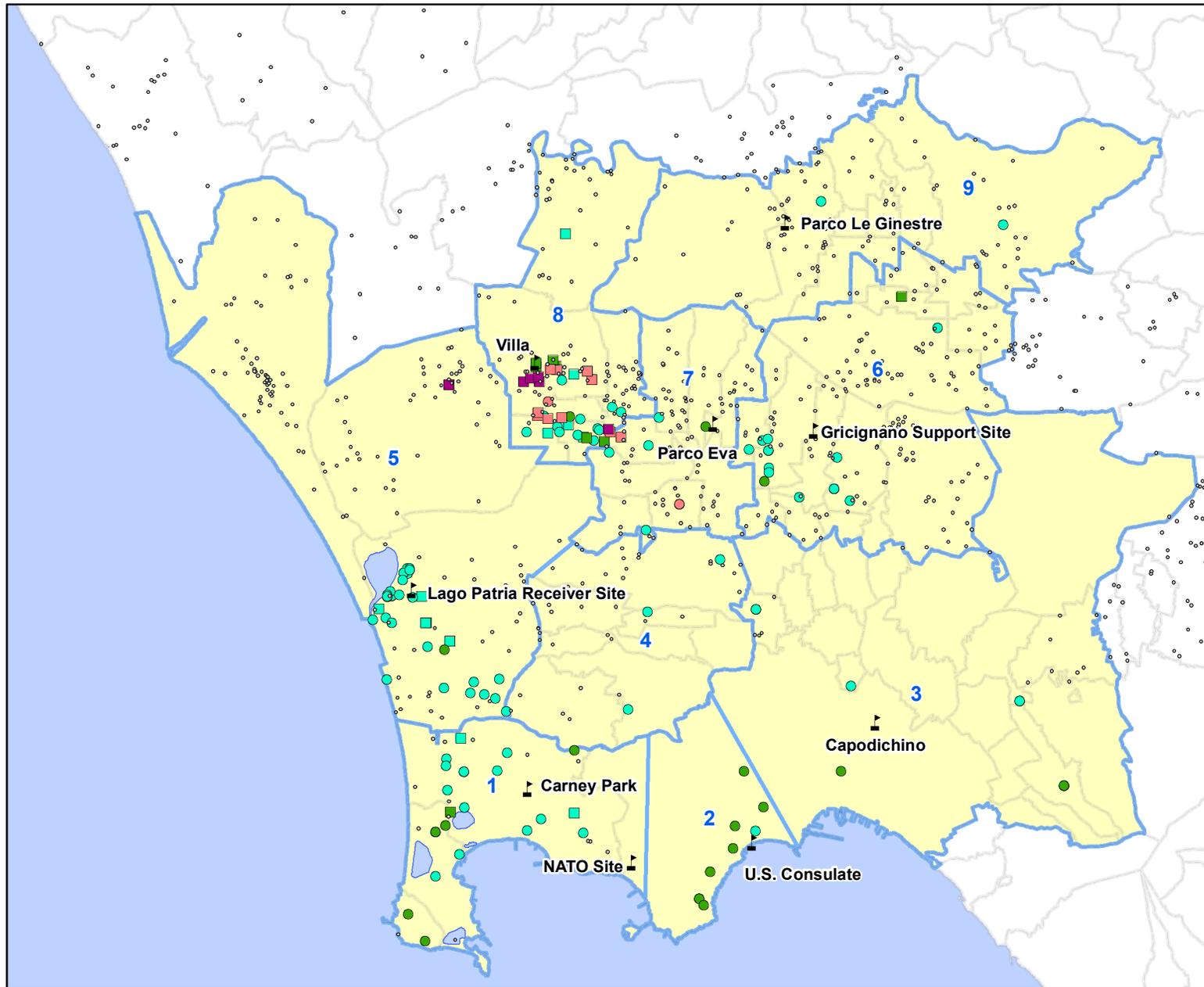
- CEF = Cancer Exceedance Factor
- NCEF = Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- USMCL = United States Maximum Contaminant Level
- Exceedance factors are calculated assuming exposure via ingestion and inhalation.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.



**Tap Water Ingestion and Inhalation Tetrachloroethene Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy**

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-19



Legend

- Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- Comune Borders (Campania)
- Public Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Public Tap Water Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Public Tap Water without Exceedance**
- CEF or NCEF <= 1
- Non-Detect
- Private Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Private Tap Water without Exceedance**
- CEF or NCEF <= 1
- Non-Detect

Note:
 -CEF = Cancer Exceedance Factor
 -NCEF = Noncancer Exceedance Factor
 -RSL = United States Environmental Protection Agency's Residential Regional Screening Level
 -Exceedance factors are calculated assuming exposure via inhalation-only.
 -Private tap water refers to the residence having a private well as a water source for tap water.
 -Some residence locations may appear as a single location due to the proximity of the residences.

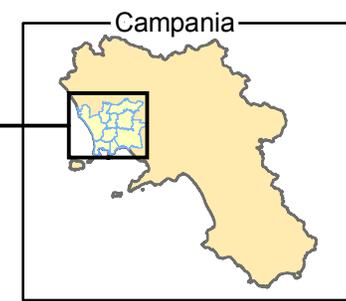
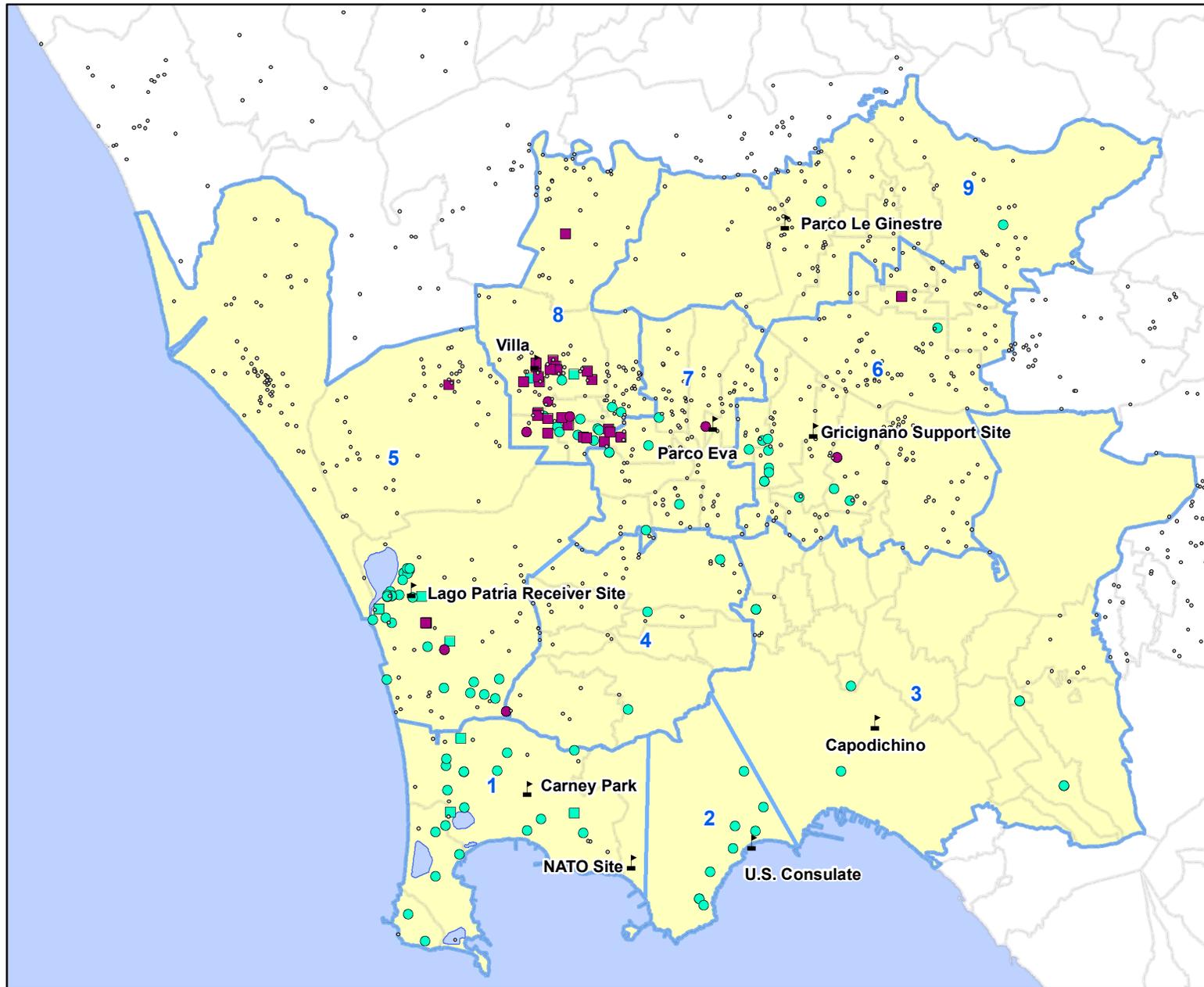


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Tap Water Inhalation Tetrachloroethene Exceedances Phase I Naples Public Health Evaluation Naples, Italy

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-20



Legend

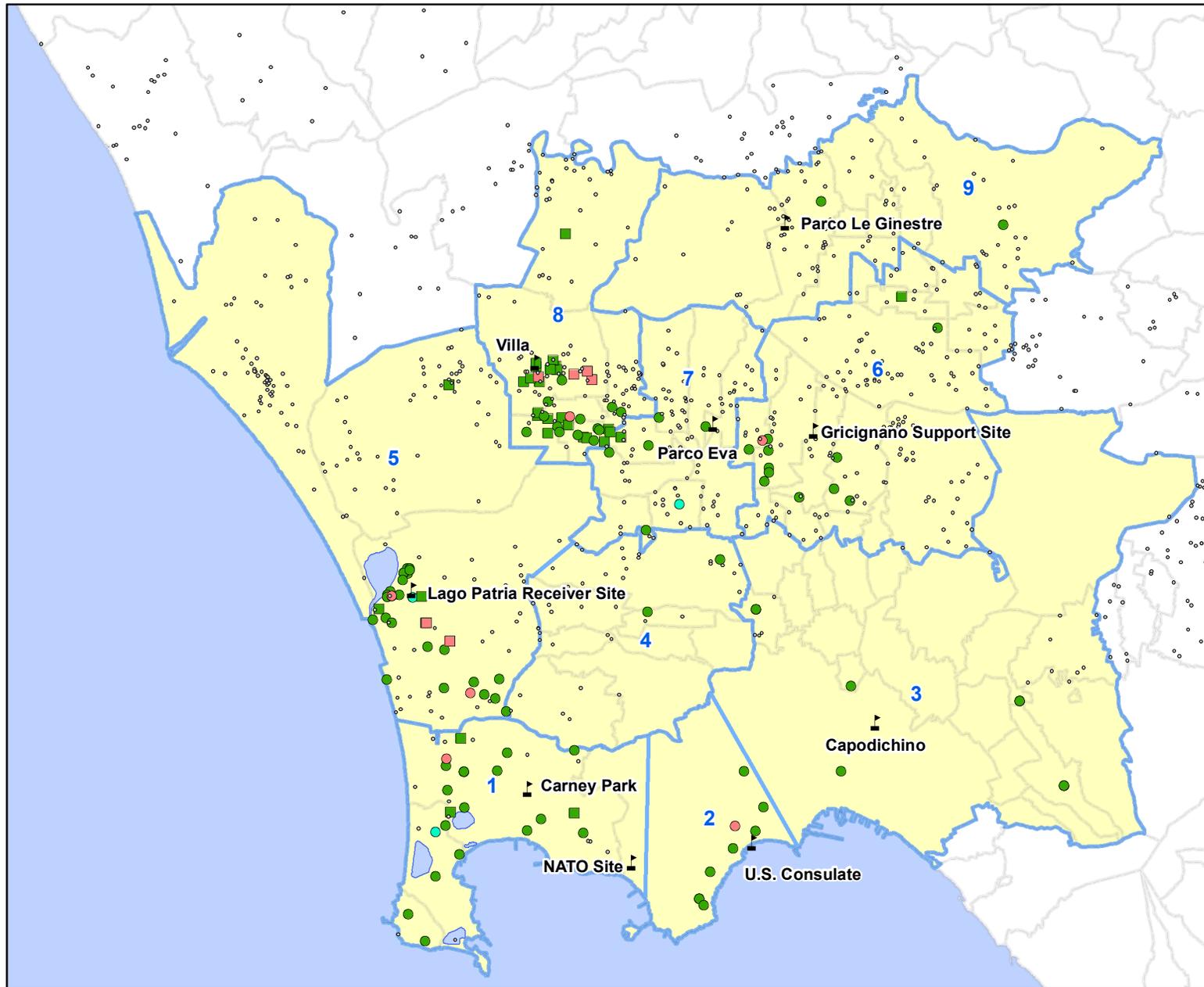
- ▲ Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- ▭ Comune Borders (Campania)
- Public Tap Water USMCL Exceedances**
 - Tap Water Concentration > USMCL
 - Non-Detect
- Private Tap Water USMCL Exceedance**
 - Tap Water Concentration > USMCL
 - Non-Detect

Note:
 -USMCL = United States Maximum Contaminant Level
 -Private tap water refers to the residence having a private well as a water source for tap water.
 -Some residence locations may appear as a single location due to the proximity of the residences.



**Tap Water Total Coliforms Exceedances
 Phase I Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-21



Legend

- Air Sampling Locations (Gov't Sites)
- Trash or Potential Hazardous Waste Sites
- Study Area Boundary (1-9)
- Comune Borders (Campania)
- Public Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Public Tap Water Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Public Tap Water without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect
- Private Tap Water Noncancer RSL Exceedance**
- NCEF > 1
- Private Tap Water Cancer RSL Exceedance**
- 1 < CEF <= 10
- CEF > 10
- Private Tap Water without RSL Exceedance**
- CEF or NCEF <= 1
- Non-Detect

Note:

- CEF = Cancer Exceedance Factor
- NCEF = Noncancer Exceedance Factor
- RSL = United States Environmental Protection Agency's Residential Regional Screening Level
- Exceedance factors are calculated assuming exposure via ingestion and inhalation.
- Private tap water refers to the residence having a private well as a water source for tap water.
- Some residence locations may appear as a single location due to the proximity of the residences.

0 1.25 2.5 5 Miles



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**Tap Water Ingestion and Inhalation Total Dioxin/Furans
(2,3,7,8-TCDD TEQs) Exceedances
Phase I Naples Public Health Evaluation
Naples, Italy**

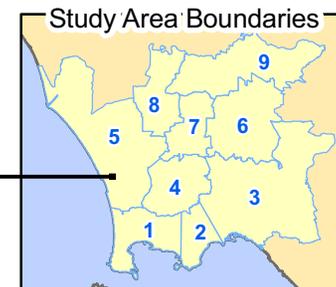
- For Internal Navy Use Only -

DWN:
KR

PROJECT:

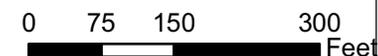
DATE:
March 2009

FIGURE NO.:
4-22



Legend

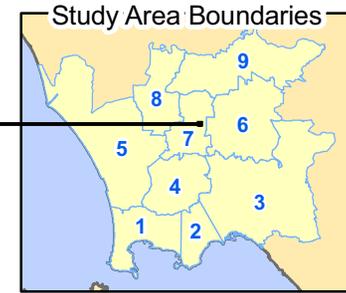
- Study Area Boundary (1-9)
- Sample Locations**
- Soil Gas
- Soil
- Tap Water



Parco Artemide Sample Locations
Phase I Naples Public Health Evaluation
Naples, Italy

- For Internal Navy Use Only -

DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-23



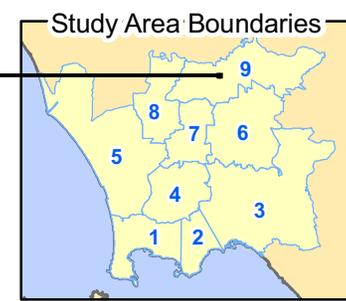
- Legend**
- Study Area Boundary (1-9)
 - Sample Locations**
 - Soil Gas
 - Soil
 - Tap Water
 - Air



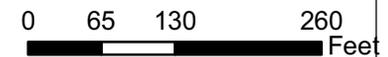
Parco Eva Sample Locations
Phase I Naples Public Health Evaluation
Naples, Italy
- For Internal Navy Use Only -



DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-24



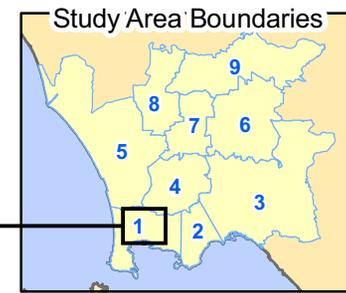
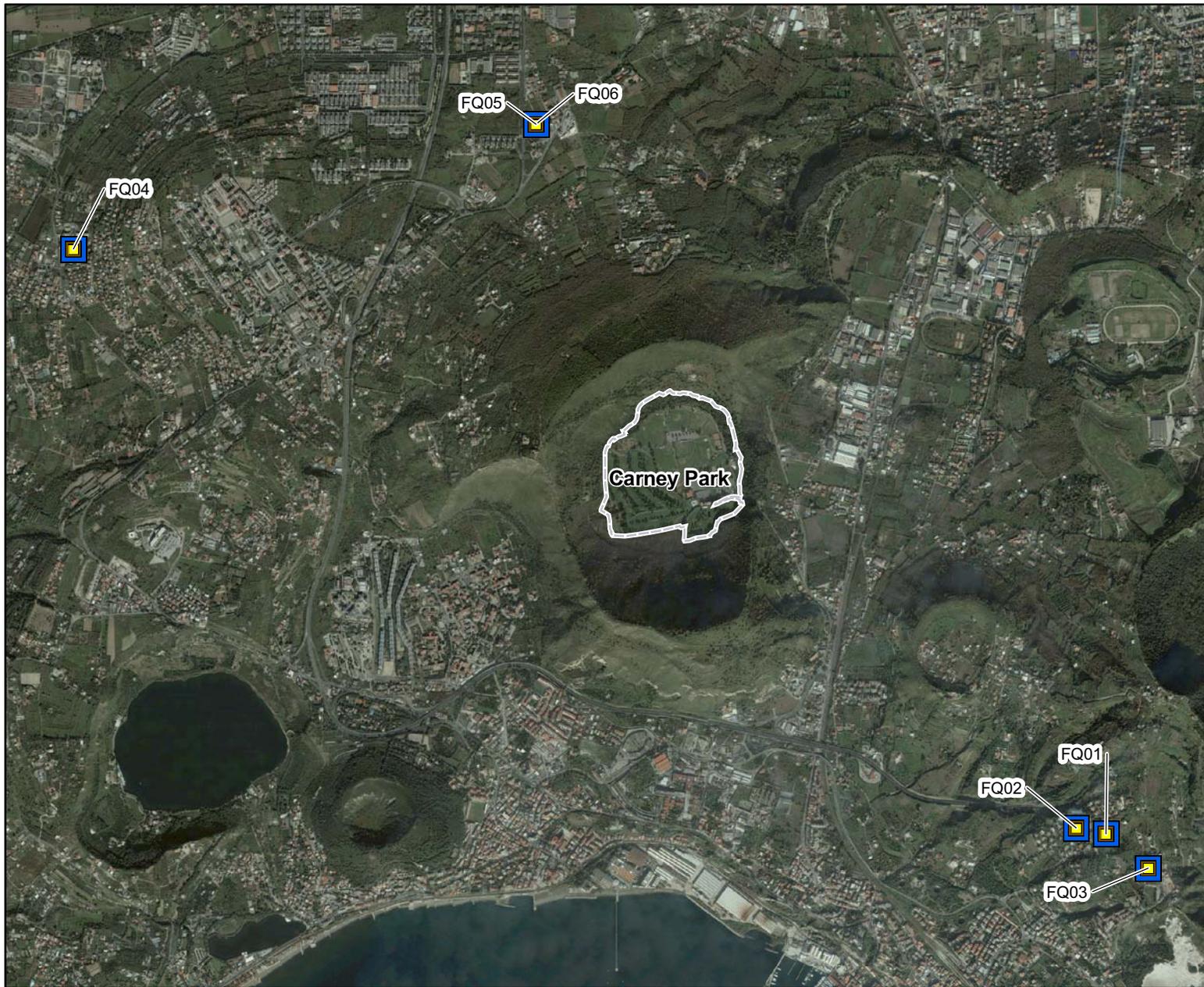
- Legend**
- Study Area Boundary (1-9)
 - Sample Locations**
 - Soil Gas
 - Soil
 - Tap Water
 - Irrigation Well
 - Air



Parco Le Ginestre Sample Locations
Phase I Naples Public Health Evaluation
Naples, Italy
- For Internal Navy Use Only -



DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-25



- Legend**
- Installation Area
 - Study Area Boundary (1-9)
 - Sample Locations**
 - Soil Gas
 - Soil
 - Tap Water

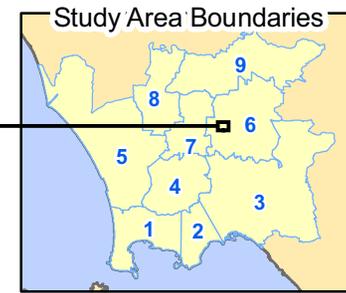
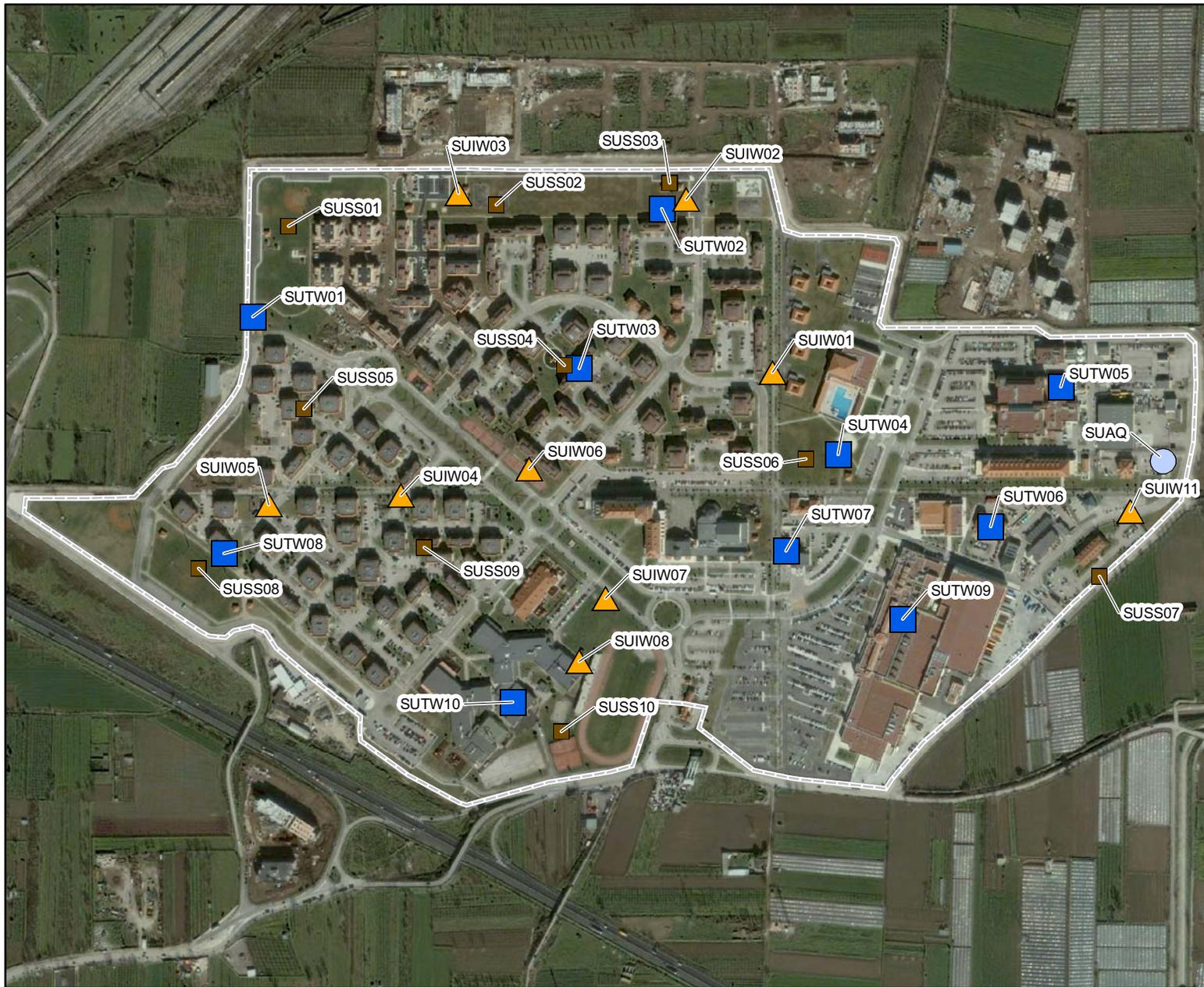
Note:
NAVFAC = Naval Facilities Engineering Command



**NAVFAC-Leased Homes Sample Locations
Phase I Naples Public Health Evaluation
Naples, Italy**
- For Internal Navy Use Only -



DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-26



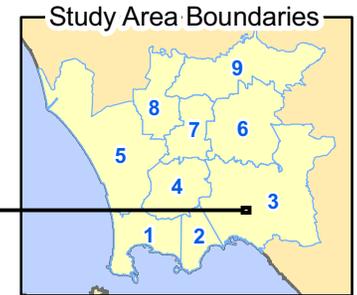
- Legend**
- Installation Area
 - Study Area Boundary (1-9)
 - Sample Locations**
 - Soil
 - Tap Water
 - Irrigation Well
 - Air



Gricignano Support Site Sample Locations
Phase I Naples Public Health Evaluation
Naples, Italy
- For Internal Navy Use Only -



DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-27



Legend

- Installation Area
- Study Area Boundary (1-9)
- Sample Locations**
- Soil
- Tap Water
- Irrigation Well
- Air



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Capodichino Sample Locations Phase I Naples Public Health Evaluation Naples, Italy

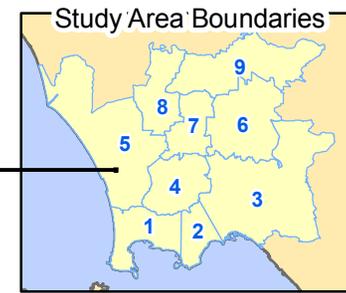
- For Internal Navy Use Only -

DWN:
KR

PROJECT:

DATE:
March 2009

FIGURE NO.:
4-28



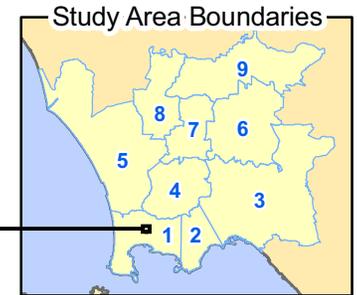
- Legend**
- Installation Area
 - Study Area Boundary (1-9)
- Sample Locations**
- Tap Water
 - Air



Lago Patria Receiver Site Sample Locations
Phase I Naples Public Health Evaluation
Naples, Italy

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DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-29



Legend

- Installation Area
- Study Area Boundary (1-9)
- Sample Locations**
- Soil
- Tap Water
- ▲ Irrigation Well
- Air



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Carney Park Sample Locations Phase I Naples Public Health Evaluation Naples, Italy

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DWN:
KR

PROJECT:

DATE:
March 2009

FIGURE NO.:
4-30



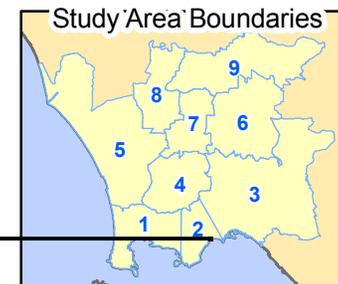
- Legend**
- Study Area Boundary (1-9)
 - Sample Locations**
 - Soil
 - Tap Water
 - Air



JFC Nato Site Sample Locations
Phase I Naples Public Health Evaluation
Naples, Italy
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DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-31



Legend

Study Area Boundary (1-9)

Sample Locations

Soil

Tap Water

Air



**U.S. Consulate Sample Locations
Phase I Naples Public Health Evaluation
Naples, Italy**

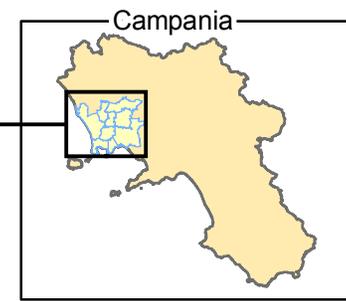
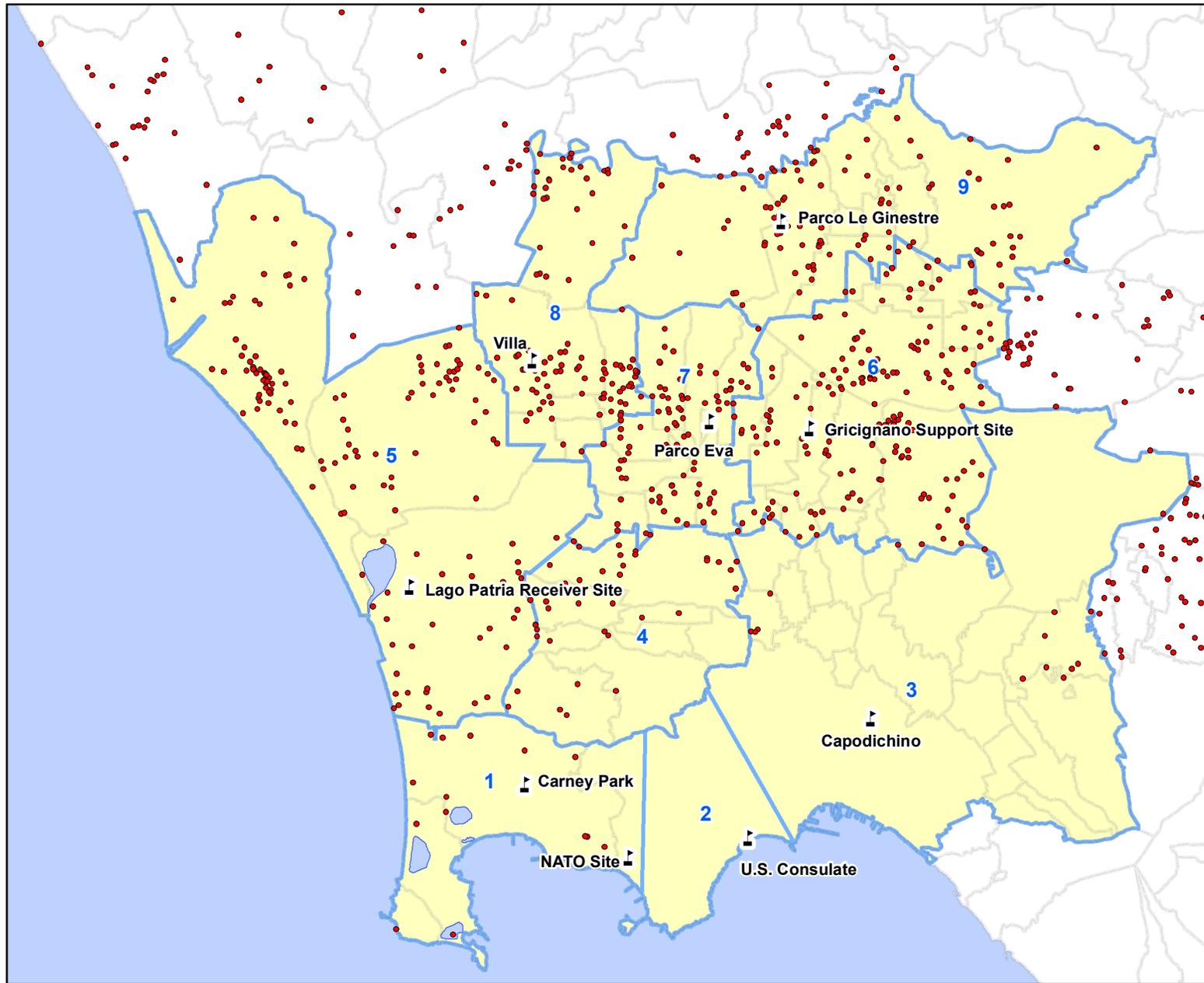
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DWN:
KR

PROJECT:

DATE:
March 2009

FIGURE NO.:
4-32

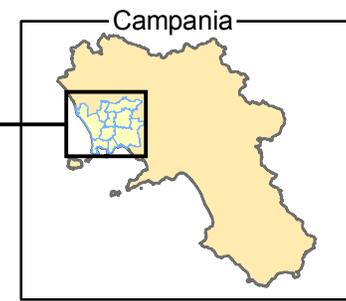
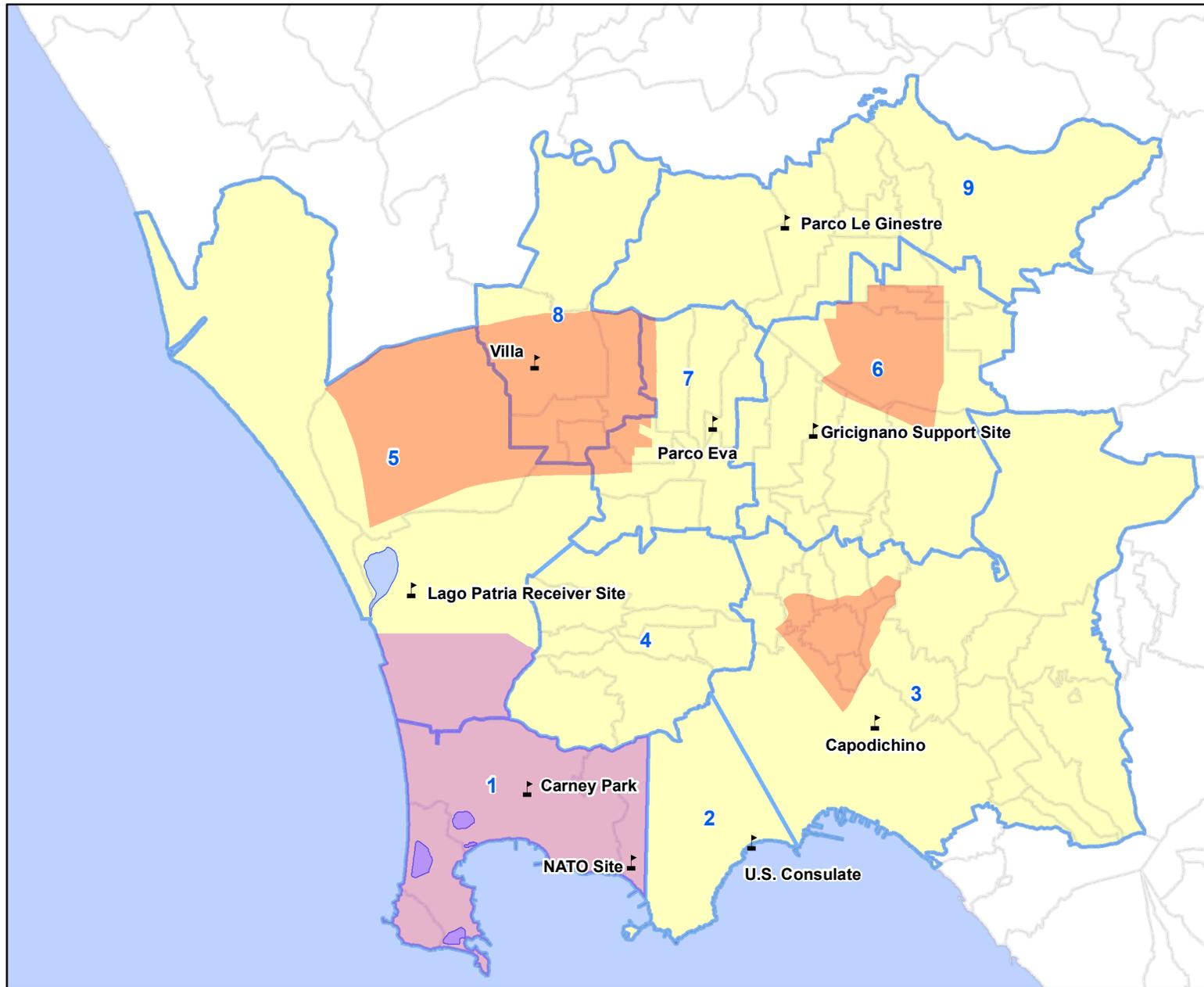


- Legend**
- ▲ Air Sampling Locations (Gov't Sites)
 - Trash or Potential Hazardous Waste Sites
 - ▭ Study Area Boundary (1-9)
 - ▭ Comune Borders (Campania)



Study Areas and Trash or Potential Hazardous Waste Sites
Phase I Naples Public Health Evaluation
Naples, Italy
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DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 4-33



- Legend**
- Air Sampling Locations (Gov't Sites)
 - Recommended Economy Housing Areas
 - NLSZ
 - Study Area Boundary (1-9)
 - Comune Borders (Campania)

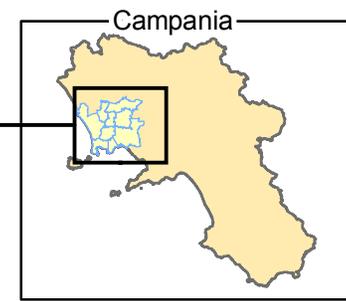
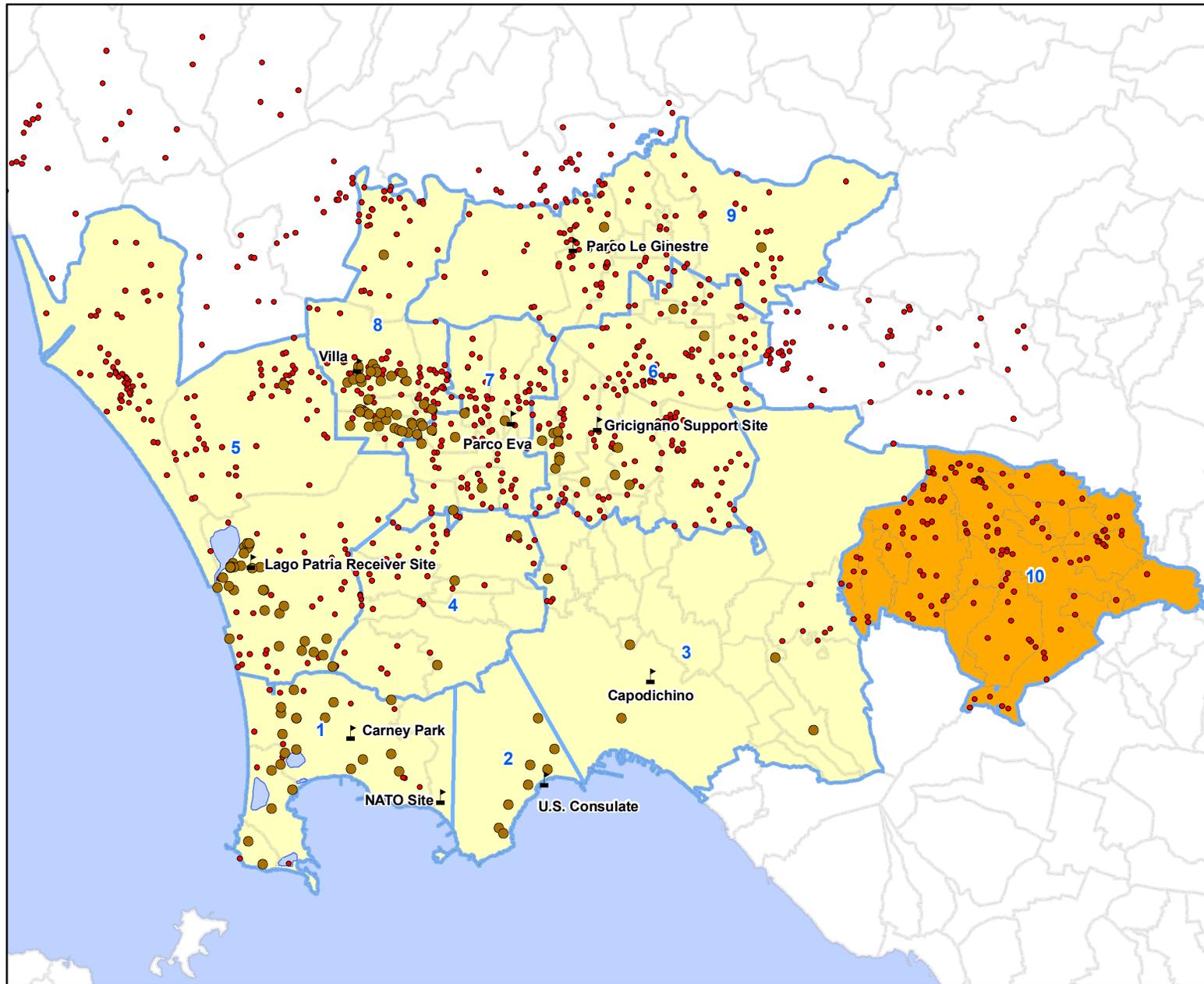
Notes:
 NLSZ - New Lease Suspension Zone

0 1.25 2.5 5 Miles

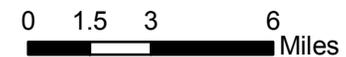
**New Lease Suspension Zones and Recommended
 Economy Housing Areas
 Phase I Naples Public Health Evaluation
 Naples, Italy**
- For Internal Navy Use Only -



DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 6-1



- Legend**
- Air Sampling Locations (Gov't Sites)
 - Trash or Potential Hazardous Waste Sites
 - Phase I Residence
 - Study Area Boundary (1-9)
 - Potential Study Area 10
 - Comune Borders (Campania)



Potential Study Area 10
Phase I Naples Public Health Evaluation
Naples, Italy
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DWN: KR	PROJECT:
DATE: March 2009	FIGURE NO.: 6-2

Appendix A

USEPA Regional Screening Levels



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Fax: 360.570.1777

MARCH 2009

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1.2 RSL VALUES USED IN THE SCREENING RISK EVALUATION.....	1
REFERENCES	2

TABLES

TABLE A-1 – USEPA RESIDENTIAL SOIL REGIONAL SCREENING LEVELS
TABLE A-2 – USEPA RESIDENTIAL AIR REGIONAL SCREENING LEVELS
TABLE A-3 – USEPA RESIDENTIAL TAP WATER REGIONAL SCREENING LEVELS

ATTACHMENTS

ATTACHMENT A-1 – USEPA RESIDENTIAL SOIL REGIONAL SCREENING LEVELS USERS GUIDE

ACRONYMS AND ABBREVIATIONS

Acronym	Explanation
HI	Hazard Index
HQ	Hazard Quotient
RSL	Risk-Based Regional Screening Level
USEPA	United States Environmental Protection Agency

RISK-BASED SCREENING LEVELS

1.1 RSL Overview

To determine whether or not the sampling results for soil, soil gas, and tap water are potentially of concern to human health, the sampling results were compared to United States Environmental Protection Agency (USEPA) risk-based regional screening levels (RSLs). The RSLs incorporate many conservative assumptions about exposure to be protective of human health. The detailed calculations are presented in the USEPA RSL User's Guide which is included in this appendix as Attachment A-1.

The USEPA RSLs are calculated based on carcinogenic (i.e., cancer) risks and noncarcinogenic (i.e., noncancer) health effects. Cancer risk is an estimate of how exposure to a chemical may increase the normal or expected rate of developing cancer in a population of people. The USEPA generally evaluates cancer risk as follows:

- **Acceptable Risk** – A cancer risk of 1×10^{-6} (i.e., one person out of 1,000,000 will develop cancer) or less is considered safe (i.e., acceptable). Note: The USEPA generally also considers the range between one in 10,000 (1×10^{-4}) and one in 1,000,000 (1×10^{-6}) people as a safe (i.e., acceptable) range, and actions to reduce the risk may or may not be required based on various site-specific factors. The USEPA typically considers additional actions to reduce cancer risks that are close to or greater than one in 10,000 (1×10^{-4}) people.
- **Unacceptable Risk** – USEPA considers an increase of “more than” one additional case of cancer (or greater) in 10,000 (1×10^{-4}) people to be of concern (i.e., unacceptable).

Noncancer health effects are expressed by a number known as the “hazard quotient” or “HQ.” The HQ compares the amount of a chemical that people may have been exposed to over a specified time period with the amount that is considered to have no effect (i.e., safe). If people are exposed to an amount greater than that considered safe for a particular chemical, then the ratio will be greater than one. Because people can be exposed to more than one chemical at a time, the HQs for different chemicals are added together to give an overall “hazard index” or “HI,” unless data is available to indicate that they should not be added together. USEPA policy considers chemical concentrations resulting in an HI above one to be of concern for developing potential noncancer health effects. Professional judgment must be used to evaluate the potential noncancer health effects related to the concentration of these chemicals to determine if actions to reduce the risk are needed.

1.2 RSL Values Used in the Screening Risk Evaluation

The USEPA RSLs that were posted by USEPA on July 7, 2008 were used in this screening risk evaluation. The residential RSL values for soil, air, and tap water are presented in Tables A-1, A-2, and A-3, respectively.

REFERENCES

- USEPA. 2008. USEPA Risk-based Regional Screening Levels.
http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

TABLES

Table A-1 -- Residential Soil RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06				Noncancer Hazard Index (HI) = 1								
		SFO	k _e	IUR	k _e	RfD _o	k _e	RfC _i	k _e	V _o	muta-	RAGS	RAGS	PEF	VF	Csat	Ingestion	Dermal	Inhalation	Total	Ingestion	Dermal	Inhalation	Total
Analyte		(mg/kg-day) ⁻¹	(ug/m ³) ⁻¹	(mg/kg-day)	(mg/m ³)	(ug/m ³)	(ug/m ³)	(ug/m ³)	gen	GI/ABS	Part E	Part E	(m ³ /kg)	(m ³ /kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acephate	30560-19-1	8.7E-03	I			4.0E-03	I			1	0.1		1.4E+09			7.3E+01	2.3E+02		5.6E+01	3.1E+02	1.1E+03			2.4E+02
Acetaldehyde	75-07-0			2.2E-06	I			9.0E-03	I V	1			1.4E+09	9.5E+03	1.1E+05			1.1E+01				8.9E+01	8.9E+01	1.2E+03
Acetochlor	34256-82-1					2.0E-02	I			1	0.1		1.4E+09						1.6E+03	5.6E+03			8.9E+01	8.9E+01
Acetone	67-64-1					9.0E-01	I	3.1E+01	A V	1			1.4E+09	1.4E+04	1.1E+05				7.0E+04			4.4E+05	6.1E+04	
Acetone Cyanohydrin	75-86-5					3.0E-03	P	6.0E-02	P V	1			1.4E+09	2.6E+04	1.1E+05				2.3E+02			1.6E+03	2.0E+02	
Acetonitrile	75-05-8							6.0E-02	I V	1			1.4E+09	1.4E+04	1.3E+05							8.7E+02	8.7E+02	
Acetophenone	98-86-2					1.0E-01	I		V	1			1.4E+09	6.2E+04	2.3E+03				7.8E+03					7.8E+03
Acrolein	107-02-8					5.0E-04	I	2.0E-05	I V	1			1.4E+09	7.8E+03	2.5E+04				3.9E+01			1.6E-01	1.6E-01	
Acrylamide	79-06-1	4.5E+00	I	1.3E-03	I	2.0E-04	I			1	0.1		1.4E+09			1.4E-01	4.5E-01	2.5E+03	1.1E-01		5.6E+01		1.6E-01	1.2E+01
Acrylic Acid	79-10-7					5.0E-01	I	1.0E-03	I	1	0.1		1.4E+09						3.9E+04	1.4E+05		1.4E+06	3.0E+04	
Acrylonitrile	107-13-1	5.4E-01	I	6.8E-05	I	1.0E-03	H	2.0E-03	I V	1			1.4E+09	8.2E+03	1.1E+04	1.2E+00		2.9E-01	2.4E-01		7.8E+01		1.7E+01	1.4E+01
Adiponitrile	111-69-3							6.0E-03	P	1	0.1		1.4E+09									8.5E+06	8.5E+06	
Alachlor	15972-60-8	5.6E-02	C			1.0E-02	I			1	0.1		1.4E+09			1.1E+01	3.6E+01		8.7E+00		7.8E+02	2.8E+03		6.1E+02
ALAR	1596-84-5					1.5E-01	I			1	0.1		1.4E+09						1.2E+04			4.2E+04		9.2E+03
Aldicarb	116-06-3					1.0E-03	I			1	0.1		1.4E+09						7.8E+01			2.8E+02		6.1E+01
Aldicarb Sulfone	1646-88-4					1.0E-03	I			1	0.1		1.4E+09						7.8E+01			2.8E+02		6.1E+01
Aldrin	309-00-2	1.7E+01	I	4.9E-03	I	3.0E-05	I			1	0.1		1.4E+09			3.8E-02	1.2E-01	6.8E+02	2.9E-02		2.3E+00	8.4E+00		1.8E+00
Allyl	74223-64-6					2.5E-01	I			1	0.1		1.4E+09						2.0E+04	7.0E+04				1.5E+04
Allyl Alcohol	107-18-6					5.0E-03	I	3.0E-04	P	1	0.1		1.4E+09						3.9E+02	1.4E+03		4.3E+05	3.1E+02	
Allyl Chloride	107-05-1							1.0E-03	I V	1			1.4E+09	1.8E+03	1.5E+03							1.8E+00	1.8E+00	
Aluminum	7429-90-5					1.0E+00	P	5.0E-03	P	1			1.4E+09									7.1E+06	7.7E+04	
Aluminum Phosphide	20859-73-8					4.0E-04	I			1			1.4E+09						3.1E+01					3.1E+01
Amdro	67485-29-4					3.0E-04	I			1	0.1		1.4E+09						2.3E+01		8.4E+01			1.8E+01
Ametryn	834-12-8					9.0E-03	I			1	0.1		1.4E+09						7.0E+02		2.5E+03			5.5E+02
Aminophenol, m-	591-27-5					8.0E-02	P			1	0.1		1.4E+09						6.3E+03		2.2E+04			4.9E+03
Aminophenol, p-	123-30-8					2.0E-02	P			1	0.1		1.4E+09						1.6E+03		5.6E+03			1.2E+03
Aminopyridine, 4-	504-24-5					2.0E-05	H			1	0.1		1.4E+09						1.6E+00		5.6E+00			1.2E+00
Amitraz	33089-61-1					2.5E-03	I			1	0.1		1.4E+09						2.0E+02	7.0E+02				1.5E+02
Ammonia	7664-41-7						H	1.0E-01	I	1			1.4E+09									1.4E+08		1.4E+08
Ammonium Perchlorate	7790-98-9					7.0E-04	I			1			1.4E+09						5.5E+01					5.5E+01
Ammonium Sulfamate	7773-06-0					2.0E-01	I			1			1.4E+09						1.6E+04					1.6E+04
Aniline	62-53-3	5.7E-03	I			7.0E-03	P	1.0E-03	I	1	0.1		1.4E+09			1.1E+02	3.5E+02		8.5E+01		2.0E+03	1.4E+06		4.3E+02
Antimony (metallic)	7440-36-0					4.0E-04	I			0.15			1.4E+09						3.1E+01					3.1E+01
Antimony Pentoxide	1314-60-9					5.0E-04	H			0.15			1.4E+09						3.9E+01					3.9E+01
Antimony Potassium Tartrate	304-61-0					9.0E-04	H			0.15			1.4E+09						7.0E+01					7.0E+01
Antimony Tetroxide	1332-81-6					4.0E-04	H			0.15			1.4E+09						3.1E+01					3.1E+01
Antimony Trioxide	1309-64-4					4.0E-04	H	2.0E-04	I	0.15			1.4E+09						3.1E+01		2.8E+05			3.1E+01
Apollo	74115-24-5					1.3E-02	I			1	0.1		1.4E+09						1.0E+03	3.6E+03				7.9E+02
Aramite	140-57-8	2.5E-02	I	7.1E-06	I	5.0E-02	H			1	0.1		1.4E+09			2.6E+01	8.1E+01	4.7E+05	1.9E+01		3.9E+03	1.4E+04		3.1E+03
Arsenic, Inorganic	7440-38-2	1.5E+00	I	4.3E-03	I	3.0E-04	I	3.0E-05	C	1	0.03		1.4E+09			4.3E-01	4.5E+00	7.7E+02	3.9E-01		2.3E+01	2.8E+02	4.3E+04	2.2E+01
Arsine	7784-42-1							5.0E-05	I	1			1.4E+09									7.1E+04		7.1E+04
Assure	76578-14-8					9.0E-03	I			1	0.1		1.4E+09						7.0E+02		2.5E+03			5.5E+02
Asulam	3337-71-1					5.0E-02	I			1	0.1		1.4E+09						3.9E+03		1.4E+04			3.1E+03
Atrazine	1912-24-9	2.3E-01	C			3.5E-02	I			1	0.1		1.4E+09			2.8E+00	8.8E+00		2.1E+00		2.7E+03	9.8E+03		2.1E+03
Avermectin B1	65195-55-3					4.0E-04	I			1	0.1		1.4E+09						3.1E+01		1.1E+02			2.4E+01
Azobenzene	103-33-3	1.1E-01	I	3.1E-05	I				V	1			1.4E+09	4.2E+05		5.8E+00		3.3E+01	4.9E+00					
Barium	7440-39-3					2.0E-01	I	5.0E-04	H	0.07			1.4E+09						1.6E+04			7.1E+05		1.5E+04
Baygon	114-26-1					4.0E-03	I			1	0.1		1.4E+09						3.1E+02		1.1E+03			2.4E+02
Bayleton	43121-43-3					3.0E-02	I			1	0.1		1.4E+09						2.3E+03		8.4E+03			1.8E+03
Baythroid	68359-37-5					2.5E-02	I			1	0.1		1.4E+09						2.0E+03		7.0E+03			1.5E+03
Benefin	1861-40-1					3.0E-01	I			1	0.1		1.4E+09						2.3E+04		8.4E+04			1.8E+04
Benomyl	17804-35-2					5.0E-02	I			1	0.1		1.4E+09						3.9E+03		1.4E+04			3.1E+03
Bentazon	25057-89-0					3.0E-02	I			1	0.1		1.4E+09						2.3E+03		8.4E+03			1.8E+03
Benzaldehyde	100-52-7					1.0E-01	I		V	1			1.4E+09	3.2E+04	1.9E+03				7.8E+03					7.8E+03
Benzene	71-43-2	5.5E-02	I	7.8E-06	I	4.0E-03	I	3.0E-02	I V	1			1.4E+09	4.0E+03	2.0E+03	1.2E+01		1.3E+00	1.1E+00		3.1E+02		1.3E+02	9.0E+01
Benzenethiol	108-98-5					1.0E-05	H		V	1			1.4E+09	2.2E+04	1.4E+03				7.8E-01					7.8E-01
Benzdine	92-87-5	2.3E+02	I	6.7E-02	I	3.0E-03	I		M	1	0.1		1.4E+09			6.5E-04	2.2							

Table A-1 -- Residential Soil RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; ca = cancer; ca* = where nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information													Carcinogenic Target Risk (TR) = 1E-06				Noncancer Hazard Index (HI) = 1					
		SFO (mg/kg-day) ⁻¹	k _e (y)	IUR (ug/m ³ -y) ⁻¹	k _e (y)	RIDo (mg/kg-day)	k _e (y)	RfC (mg/m ³)	k _e (y)	V (y)	muta- gen	RAGS GI/ABS	RAGS Part E ABS	PEF (m ³ /kg)	VF (m ³ /kg)	Csat (mg/kg)	Carcinogenic Target Risk (TR) = 1E-06				Noncancer Hazard Index (HI) = 1			
																	Ingestion	Dermal	Inhalation	Total	Ingestion	Dermal	Inhalation	Total
Bidrin	141-66-2					1.0E-04	I				1	0.1	1.4E+09							7.8E+00	2.8E+01		6.1E+00	
Bifenox	42576-02-3					9.0E-03	P				1	0.1	1.4E+09							7.0E+02	2.5E+03		5.5E+02	
Biphenrin	82657-04-3					1.5E-02	I				1	0.1	1.4E+09							1.2E+03	4.2E+03		9.2E+02	
Biphenyl, 1,1'-	92-52-4					5.0E-02	I			V	1		1.4E+09	1.4E+05	2.6E+02					3.9E+03			3.9E+03	
Bis(2-chloroethoxy)methane	111-91-1					3.0E-03	P				1	0.1	1.4E+09							2.3E+02	8.4E+02		1.8E+02	
Bis(2-chloroethyl)ether	111-44-4	1.1E+00	I	3.3E-04	I					V	1		1.4E+09	3.7E+04	3.3E+03				5.8E-01		2.7E-01	1.9E-01		
Bis(2-chloro-1-methylethyl) ether	108-60-1	7.0E-02	H	1.0E-05	H	4.0E-02	I			V	1		1.4E+09	2.3E+04	5.7E+02				9.1E+00	5.6E+00	3.5E+00	3.1E+03		
Bis(2-ethylhexyl)phthalate	117-81-7	1.4E-02	I			2.0E-02	I				1	0.1	1.4E+09						4.6E+01	1.4E+02	3.5E+01	1.6E+03	5.6E+03	
Bis(chloromethyl)ether	542-88-1	2.2E+02	I	6.2E-02	I					V	1		1.4E+09	7.6E+03	2.8E+03				2.9E-03		3.0E-04	2.7E-04		
Bisphenol A	80-05-7					5.0E-02	I				1	0.1	1.4E+09							3.9E+03	1.4E+04		3.1E+03	
Boron And Borates Only	7440-42-8					2.0E-01	I	2.0E-02	H		1		1.4E+09							1.6E+04		2.8E+07	1.6E+04	
Boron Trifluoride	772/7637							7.0E-04	H		1		1.4E+09									9.9E+05	9.9E+05	
Bromate	15541-45-4	7.0E-01	I			4.0E-03	I				1		1.4E+09						9.1E-01		9.1E-01	3.1E+02		
Bromodichloromethane	75-27-4	6.2E-02	I			2.0E-02	I			V	1		1.4E+09	4.4E+03	9.9E+02				1.0E+01		1.0E+01	1.6E+03		
Bromoform	75-25-2	7.9E-03	I	1.1E-06	I	2.0E-02	I				1	0.1	1.4E+09						8.1E+01	2.6E+02	3.0E+06	6.1E+01		
Bromomethane	74-83-9					1.4E-03	I	5.0E-03	I	V	1		1.4E+09	1.6E+03	3.6E+03							8.5E+00	7.9E+00	
Bromophos	2104-96-3					5.0E-03	H				1	0.1	1.4E+09							3.9E+02	1.4E+03		3.1E+02	
Bromoxynil	1689-84-5					2.0E-02	I				1	0.1	1.4E+09							1.6E+03	5.6E+03		1.2E+03	
Bromoxynil Octanoate	1689-99-2					2.0E-02	I				1	0.1	1.4E+09							1.6E+03	5.6E+03		1.2E+03	
Butadiene, 1,3-	106-99-0			3.0E-05	I			2.0E-03	I	V	1		1.4E+09	9.4E+02	6.9E+02					7.7E-02	7.7E-02	2.0E+00	2.0E+00	
Butanol, N-	71-36-3					1.0E-01	I				1	0.1	1.4E+09							7.8E+03	2.8E+04		6.1E+03	
Butyl Benzyl Phthlate	85-68-7					2.0E-01	I				1	0.1	1.4E+09							1.6E+04	5.6E+04		1.2E+04	
Butylate	2008-41-5					5.0E-02	I				1	0.1	1.4E+09							3.9E+03	1.4E+04		3.1E+03	
Butylphthalyl Butylglycolate	85-70-1					1.0E+00	I				1	0.1	1.4E+09							7.8E+04	2.8E+05		6.1E+04	
Cacodylic Acid	75-60-5					2.0E-02	A				1	0.1	1.4E+09							1.6E+03	5.6E+03		1.2E+03	
Cadmium (Diet)	7440-43-9			1.8E-03	I	1.0E-03	I				0.025	0.001	1.4E+09							1.8E+03	1.8E+03	7.8E+01	7.0E+02	7.0E+01
Caprolactam	105-60-2					5.0E-01	I				1	0.1	1.4E+09							7.8E+03	2.8E+04		3.1E+04	
Captafol	6/1/2425	1.5E-01	C	4.3E-05	C	2.0E-03	I				1	0.1	1.4E+09						4.3E+00	1.3E+01	7.7E+04	3.2E+00	1.6E+02	5.6E+02
Captan	133-06-2	2.3E-03	C	6.6E-07	C	1.3E-01	I				1	0.1	1.4E+09						2.8E+02	8.8E+02	5.0E+06	2.1E+02	1.0E+04	3.6E+04
Carbaryl	63-25-2					1.0E-01	I				1	0.1	1.4E+09							7.8E+03	2.8E+04		6.1E+03	
Carbazole	86-74-8	2.0E-02	H								1	0.1	1.4E+09						3.2E+01	1.0E+02		2.4E+01		
Carbofuran	1563-66-2					5.0E-03	I				1	0.1	1.4E+09							3.9E+02	1.4E+03		3.1E+02	
Carbon Disulfide	75-15-0					1.0E-01	I	7.0E-01	I	V	1		1.4E+09	1.0E+03	2.6E+02					7.8E+03		7.3E+02	6.7E+02	
Carbon Tetrachloride	56-23-5	1.3E-01	I	1.5E-05	I	7.0E-04	I	1.9E-01	A	V	1		1.4E+09	1.6E+03	4.8E+02				4.9E+00	2.7E-01	2.5E-01	5.5E+01	3.2E+02	
Carbosulfan	55285-14-8					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03		6.1E+02	
Carboxin	5234-68-4					1.0E-01	I				1	0.1	1.4E+09							7.8E+03	2.8E+04		6.1E+03	
Chloral Hydrate	302-17-0					1.0E-01	I				1	0.1	1.4E+09							7.8E+03	2.8E+04		6.1E+03	
Chloramben	133-90-4					1.5E-02	I				1	0.1	1.4E+09							1.2E+03	4.2E+03		9.2E+02	
Chloranil	118-75-2	4.0E-01	H								1	0.1	1.4E+09						1.6E+00	5.0E+00		1.2E+00		
Chlordane	57-74-9	3.5E-01	C	1.0E-04	I	5.0E-04	I	7.0E-04	I		1	0.04	1.4E+09						1.8E+00	1.4E+01	3.3E+04	1.6E+00	3.9E+01	3.5E+02
Chlordecone (Kepone)	143-50-0	1.6E+01	C	4.6E-03	C						1	0.1	1.4E+09						4.0E-02	1.3E-01	7.2E+02	3.0E-02		
Chlorimuron, Ethyl-	90982-32-4					2.0E-02	I				1	0.1	1.4E+09							1.6E+03	5.6E+03		1.2E+03	
Chlorine	7782-50-5					1.0E-01	I	1.5E-04	A		1		1.4E+09							7.8E+03		2.1E+05	7.5E+03	
Chlorine Dioxide	10049-04-4					3.0E-02	I	2.0E-04	I		1		1.4E+09							2.3E+03		2.8E+05	2.3E+03	
Chlorite (Sodium Salt)	7758-19-2					3.0E-02	I				1		1.4E+09							2.3E+03			2.3E+03	
Chloro-1,1-difluoroethane, 1-	75-68-3							5.0E+01	I	V	1		1.4E+09	1.1E+03	1.2E+03							5.9E+04	5.9E+04	
Chloro-1,3-butadiene, 2-	126-99-8					2.0E-02	H	7.0E-03	H	V	1		1.4E+09	1.2E+03	8.2E+02				1.4E+00	4.4E+00		1.1E+00	1.6E+03	
Chloro-2-methylaniline HCl, 4-	3165-93-3	4.6E-01	H								1	0.1	1.4E+09						2.4E+00	7.5E+00	4.3E+04	1.8E+00		
Chloro-2-methylaniline, 4-	95-69-2	2.7E-01	C	7.7E-05	C						1	0.1	1.4E+09										1.6E+02	
Chloroacetic Acid	79-11-8					2.0E-03	H				1	0.1	1.4E+09							1.6E+02	5.6E+02		1.2E+02	
Chloroacetophenone, 2-	532-27-4							3.0E-05	I		1	0.1	1.4E+09									4.3E+04	4.3E+04	
Chloroaniline, p-	106-47-8					4.0E-03	I				1	0.1	1.4E+09							3.1E+02	1.1E+03		2.4E+02	
Chlorobenzene	108-90-7					2.0E-02	I	5.0E-02	P	V	1		1.4E+09	7.4E+03	8.6E+02					1.6E+03		3.9E+02	3.1E+02	
Chlorobenzilate	510-15-6	1.1E-01	C	3.1E-11	C	2.0E-02	I				1	0.1	1.4E+09						5.8E+00	1.8E+01	1.1E+11	4.4E+00	1.6E+03	
Chlorobenzoic Acid, p-	74-11-3					2.0E-01	H				1	0.1	1.4E+09							1.6E+04	5.6E+04		1.2E+04	
Chlorobenzotrifluoride, 4-	98-56-6					3.0E-03	P	3.0E-01	P	V	1		1.4E+09	7.9E+03	5.5E+02					2.3E+02		2.5E+03	2.1E+02	
Chlorobutane, 1-	109-69-3					4.0E-02	P			V	1		1.4E+09	2.0E+03	7.9E+02					3.1E+03			3.1E+03	
Chlorodifluoromethane	75-45-6							5.0E+01	I	V	1		1.4E+09	1.0E+03	1.7E+03							5.3		

Table A-1 -- Residential Soil RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information													Carcinogenic Target Risk (TR) = 1E-06				Noncancer Hazard Index (HI) = 1					
		SFO	k _e	IUR	k _e	RfD _o	k _e	RfC _i	k _e	V	muta-	RAGS	RAGS	PEF	VF	Csat	Ingestion	Dermal	Inhalation	Total	Ingestion	Dermal	Inhalation	Total
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y		c	Part E	Part E	(m ³ /kg)	(m ³ /kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloropropane, 2-	75-29-6						1.0E-01	H	V		1		1.4E+09	1.4E+03	1.4E+03	2.1E+02	6.5E+02	3.7E+06	1.6E+02	1.2E+03	4.2E+03	1.5E+02	1.5E+02	
Chlorothalonil	1897-45-6	3.1E-03	C	8.9E-07	C	1.5E-02	I				1	0.1	1.4E+09			2.1E+02	6.5E+02	3.7E+06	1.6E+02	1.2E+03	4.2E+03	1.5E+02	9.2E+02	
Chlorotoluene, o-	95-49-8					2.0E-02	I			V	1		1.4E+09	9.4E+03	1.0E+03					1.6E+03				1.6E+03
Chlorotoluene, p-	106-43-4					7.0E-02	P			V	1		1.4E+09	8.4E+03	2.9E+02					5.5E+03				5.5E+03
Chlorpropham	101-21-3					2.0E-01	I				1	0.1	1.4E+09							1.6E+04	5.6E+04			1.2E+04
Chlorpyrifos	2921-88-2					3.0E-03	I				1	0.1	1.4E+09							2.3E+02	8.4E+02			1.8E+02
Chlorpyrifos Methyl	5598-13-0					1.0E-02	H				1	0.1	1.4E+09							7.8E+02	2.8E+03			6.1E+02
Chlorsulfuron	64902-72-3					5.0E-02	I				1	0.1	1.4E+09							3.9E+03	1.4E+04			3.1E+03
Chlorthiophos	60238-56-4					8.0E-04	H				1	0.1	1.4E+09							6.3E+01	2.2E+02			4.9E+01
Chromium (III) (Insoluble Salts)	16065-83-1					1.5E+00	I					0.013	1.4E+09							1.2E+05				1.2E+05
Chromium VI (particulates)	18540-29-9			1.2E-02	I	3.0E-03	I	1.0E-04	I			0.025	1.4E+09					2.8E+02	2.8E+02	2.3E+02		1.4E+05		2.3E+02
Copper	7440-50-8					4.0E-02	H				1		1.4E+09							3.1E+03				3.1E+03
Cresol, m-	108-39-4					5.0E-02	I				1	0.1	1.4E+09							3.9E+03	1.4E+04			3.1E+03
Cresol, o-	95-48-7					5.0E-02	I				1	0.1	1.4E+09							3.9E+03	1.4E+04			3.1E+03
Cresol, p-	106-44-5					5.0E-03	H				1	0.1	1.4E+09							3.9E+02	1.4E+03			3.1E+02
Crotonaldehyde, trans-	123-73-9	1.9E+00	H							V	1		1.4E+09	2.2E+04	2.4E+04	3.4E-01		3.4E-01						
Cumene	98-82-8					1.0E-01	I	4.0E-01	I	V	1		1.4E+09	7.2E+03	3.1E+02					7.8E+03		3.0E+03		2.2E+03
Cyanazine	21725-46-2	8.4E-01	H			2.0E-03	H				1	0.1	1.4E+09			7.6E-01	2.4E+00		5.8E-01	1.6E+02	5.6E+02			1.2E+02
Cyanides																								
Calcium Cyanide	592-01-8					4.0E-02	I				1		1.4E+09							3.1E+03				3.1E+03
Copper Cyanide	544-92-3					5.0E-03	I				1		1.4E+09							3.9E+02				3.9E+02
Cyanide (CN-)	57-12-5					2.0E-02	I				1		1.4E+09							1.6E+03				1.6E+03
Cyanogen	460-19-5					4.0E-02	I			V	1		1.4E+09							3.1E+03				3.1E+03
Cyanogen Bromide	506-68-3					9.0E-02	I			V	1		1.4E+09							7.0E+03				7.0E+03
Cyanogen Chloride	506-77-4					5.0E-02	I			V	1		1.4E+09							3.9E+03				3.9E+03
Hydrogen Cyanide	74-90-8					2.0E-02	I	3.0E-03	I	V	1		1.4E+09							1.6E+03		4.3E+06		1.6E+03
Potassium Cyanide	151-50-8					5.0E-02	I				1		1.4E+09							3.9E+03				3.9E+03
Potassium Silver Cyanide	506-61-6					2.0E-01	I					0.04	1.4E+09							1.6E+04				1.6E+04
Silver Cyanide	506-64-9					1.0E-01	I					0.04	1.4E+09							7.8E+03				7.8E+03
Sodium Cyanide	143-33-9					4.0E-02	I				1		1.4E+09							3.1E+03				3.1E+03
Thiocyanate	463-56-9					2.0E-04	P			V	1		1.4E+09	7.0E+03	5.6E+03					1.6E+01				1.6E+01
Zinc Cyanide	557-21-1					5.0E-02	I				1		1.4E+09							3.9E+03				3.9E+03
Cyclohexane	110-82-7							6.0E+00	I	V	1		1.4E+09	1.2E+03	1.2E+02	2.8E+01	8.8E+01		2.1E+01				7.2E+03	7.2E+03
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	2.3E-02	H								1	0.1	1.4E+09											
Cyclohexanone	108-94-1					5.0E+00	I				1	0.1	1.4E+09							3.9E+05	1.4E+06			3.1E+05
Cyclohexylamine	108-91-8					2.0E-01	I				1	0.1	1.4E+09							1.6E+04	5.6E+04			1.2E+04
Cyhalothrin/karate	68085-85-8					5.0E-03	I				1	0.1	1.4E+09							3.9E+02	1.4E+03			3.1E+02
Cypermethrin	52315-07-8					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03			6.1E+02
Cyromazine	66215-27-8					7.5E-03	I				1	0.1	1.4E+09							5.9E+02	2.1E+03			4.6E+02
Dacthal	1861-32-1					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03			6.1E+02
Dalapon	75-99-0					3.0E-02	I				1	0.1	1.4E+09							2.3E+03	8.4E+03			1.8E+03
DDD	72-54-8	2.4E-01	I								1	0.1	1.4E+09			2.7E+00	8.4E+00		2.0E+00					
DDE, p,p'	72-55-9	3.4E-01	I								1	0.1	1.4E+09			1.9E+00	6.0E+00		1.4E+00					
DDT	50-29-3	3.4E-01	I	9.7E-05	I	5.0E-04	I				1	0.03	1.4E+09			1.9E+00	2.0E+01	3.4E+04	1.7E+00	3.9E+01	4.7E+02			3.6E+01
Decabromodiphenyl Ether	1163-19-5					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03			6.1E+02
Demeton	8065-48-3					4.0E-05	I				1	0.1	1.4E+09							3.1E+00	1.1E+01			2.4E+00
Di(2-ethylhexyl)adipate	103-23-1	1.2E-03	I			6.0E-01	I				1	0.1	1.4E+09			5.3E+02	1.7E+03		4.0E+02	4.7E+04	1.7E+05			3.7E+04
Diallylate	2303-16-4	6.1E-02	H								1	0.1	1.4E+09			1.0E+01	3.3E+01		8.0E+00					
Diazinon	333-41-5					9.0E-04	H				1	0.1	1.4E+09							7.0E+01	2.5E+02			5.5E+01
Dibromo-3-chloropropane, 1,2-	96-12-8	8.0E-01	P	6.0E-03	P	2.0E-04	P	2.0E-04	I	V	M	1	1.4E+09	3.6E+04	1.1E+03	1.9E-01		5.8E-03	5.6E-03	1.6E+01	2.5E+02	7.6E+00		5.1E+00
Dibromobenzene, 1,4-	106-37-6					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03			6.1E+02
Dibromochloromethane	124-48-1	8.4E-02	I			2.0E-02	I			V	1	0.1	1.4E+09	8.8E+03	8.5E+02	7.6E+00	2.4E+01		5.8E+00	1.6E+03	5.6E+03			1.2E+03
Dibromoethane, 1,2-	106-93-4	2.0E+00	I	6.0E-04	I	9.0E-03	I	9.0E-03	I	V	1		1.4E+09	9.5E+03	1.4E+03	3.2E-01		3.9E-02	3.4E-02	7.0E+02		8.9E+01		7.9E+01
Dibromomethane (Methylene Bromide)	74-95-3					1.0E-02	H			V	1		1.4E+09	6.2E+03	3.0E+03					7.8E+02				7.8E+02
Dibutyl Phthalate	84-74-2					1.0E-01	I				1	0.1	1.4E+09							7.8E+03	2.8E+04			6.1E+03
Dibutyltin Compounds	NA					3.0E-04	P				1	0.1	1.4E+09							2.3E+01	8.4E+01			1.8E+01
Dicamba	1918-00-9					3.0E-02	I				1	0.1	1.4E+09							2.3E+03	8.4E+03			1.8E+03
Dichloro-2-butene, 1,4-	764-41-0			2.6E-03	H					V	1		1.4E+09	3.4E+03	6.1E+02									
Dichloroacetic Acid	79-43-6	5.0E-02																						

Table A-1 -- Residential Soil RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information											Carcinogenic Target Risk (TR) = 1E-06				Noncancer Hazard Index (HI) = 1								
		SFO	k _e	IUR	k _e	RfD _o	k _e	RfC _l	k _e	V	muta-	RAGS	RAGS	PEF	VF	Csat	Ingestion	Dermal	Inhalation	Total	Ingestion	Dermal	Inhalation	Total	
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y	c	gen	Part E	Part E	(m ³ /kg)	(m ³ /kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Heptachlor Epoxide	1024-57-3	9.1E+00	I	2.6E-03	I	1.3E-05	I				1	0.1	1.4E+09			7.0E-02	2.2E-01	1.3E+03	5.3E-02	1.0E+00	3.6E+00			7.9E-01	
Hexabromobenzene	87-82-1					2.0E-03	I				1	0.1	1.4E+09							1.6E+02	5.6E+02			1.2E+02	
Hexachlorobenzene	118-74-1	1.6E+00	I	4.6E-04	I	8.0E-04	I				1	0.1	1.4E+09			4.0E-01	1.3E+00	7.2E+03	3.0E-01	6.3E+01	2.2E+02			4.9E+01	
Hexachlorobutadiene	87-68-3	7.8E-02	I	2.2E-05	I	1.0E-03	P				1	0.1	1.4E+09			8.2E+00	2.6E+01	1.5E+05	6.2E+00	7.8E+01	2.8E+02			6.1E+01	
Hexachlorocyclohexane, Alpha-	319-84-6	6.3E+00	I	1.8E-03	I						1	0.1	1.4E+09			1.0E-01	3.2E-01	1.8E+03	7.7E-02						
Hexachlorocyclohexane, Beta-	319-85-7	1.8E+00	I	5.3E-04	I						1	0.1	1.4E+09			3.5E-01	1.1E+00	6.2E+03	2.7E-01						
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	1.1E+00	C	3.1E-04	C	3.0E-04	I				1	0.04	1.4E+09			5.8E-01	4.6E+00	1.1E+04	5.2E-01	2.3E+01	2.1E+02			2.1E+01	
Hexachlorocyclohexane, Technical	608-73-1	1.8E+00	I	5.1E-04	I						1	0.1	1.4E+09			3.5E-01	1.1E+00	6.5E+03	2.7E-01						
Hexachlorocyclopentadiene	77-47-4					6.0E-03	I	2.0E-04	I		1	0.1	1.4E+09							4.7E+02	1.7E+03	2.8E+05		3.7E+02	
Hexachloroethane	67-72-1	1.4E-02	I	4.0E-06	I	1.0E-03	I				1	0.1	1.4E+09			4.6E+01	1.4E+02	8.3E+05	3.5E+01	7.8E+01	2.8E+02			6.1E+01	
Hexachlorophene	70-30-4					3.0E-04	I				1	0.1	1.4E+09							2.3E+01	8.4E+01			1.8E+01	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	1.1E-01	I			3.0E-03	I				1	0.1	1.4E+09			5.8E+00	1.8E+01		4.4E+00	2.3E+02	8.4E+02			1.8E+02	
Hexamethylene Diisocyanate, 1,6-	822-06-0							1.0E-05	I	V	1		1.4E+09	3.6E+05	4.1E+03								3.7E+00	3.7E+00	
Hexane, N-	110-54-3					6.0E-02	H	7.0E-01	I	V	1		1.4E+09	9.0E+02	1.4E+02								4.7E+03	6.5E+02	5.7E+02
Hexanedioic Acid	124-04-9					2.0E+00	P				1	0.1	1.4E+09							1.6E+05	5.6E+05			1.2E+05	
Hexazinone	51235-04-2					3.3E-02	I				1	0.1	1.4E+09							2.6E+03	9.2E+03			2.0E+03	
Hydrazine	302-01-2	3.0E+00	I	4.9E-03	I			2.0E-04	C		1		1.4E+09			2.1E-01		6.8E+02	2.1E-01				2.8E+05	2.8E+05	
Hydrazine Sulfate	10034-93-2	3.0E+00	I	4.9E-03	I						1		1.4E+09			2.1E-01		6.8E+02	2.1E-01				2.8E+05	2.8E+05	
Hydrogen Chloride	7647-01-0							2.0E-02	I		1		1.4E+09										2.8E+07	2.8E+07	
Hydrogen Sulfide	614/7783					3.0E-03	I	2.0E-03	I		1		1.4E+09										2.8E+06	2.3E+02	
Imazail	35554-44-0					1.3E-02	I				1	0.1	1.4E+09							2.3E+02				2.8E+07	
Imazaquin	81335-37-7					2.5E-01	I				1	0.1	1.4E+09							1.0E+03	3.6E+03			7.9E+02	
Iprodione	36734-19-7					4.0E-02	I				1	0.1	1.4E+09							2.0E+04	7.0E+04			1.5E+04	
Iron	7439-89-6					7.0E-01	P				1		1.4E+09							3.1E+03	1.1E+04			2.4E+03	
Isobutyl Alcohol	78-83-1					3.0E-01	I			V	1		1.4E+09	3.0E+04	9.6E+03					5.5E+04				5.5E+04	
Isophorone	78-59-1	9.5E-04	I			2.0E-01	I	2.0E+00	C		1	0.1	1.4E+09			6.7E+02	2.1E+03		5.1E+02	1.6E+04	5.6E+04	2.8E+09		1.2E+04	
Isopropalin	33820-53-0					1.5E-02	I				1	0.1	1.4E+09							1.2E+03	4.2E+03			9.2E+02	
Isopropyl Methyl Phosphonic Acid	1832-54-8					1.0E-01	I				1	0.1	1.4E+09							7.8E+03	2.8E+04			6.1E+03	
Isoxaben	82558-50-7					5.0E-02	I				1	0.1	1.4E+09							3.9E+03	1.4E+04			3.1E+03	
Kerb	23950-58-5					7.5E-02	I				1	0.1	1.4E+09							5.9E+03	2.1E+04			4.6E+03	
Lactofen	77501-63-4					2.0E-03	I				1	0.1	1.4E+09							1.6E+02	5.6E+02			1.2E+02	
Lead Compounds																									
Lead and Compounds	7439-92-1										1		1.4E+09												
Tetraethyl Lead	78-00-2					1.0E-07	I				1	0.1	1.4E+09							7.8E-03	2.8E-02			6.1E-03	
Linuron	330-55-2					2.0E-03	I				1	0.1	1.4E+09							1.6E+02	5.6E+02			1.2E+02	
Lithium Perchlorate	319/7791					7.0E-04	I				1		1.4E+09							5.5E+01				5.5E+01	
Londax	83055-99-6					2.0E-01	I				1	0.1	1.4E+09							1.6E+04	5.6E+04			1.2E+04	
Malathion	121-75-5					2.0E-02	I				1	0.1	1.4E+09							1.6E+03	5.6E+03			1.2E+03	
Maleic Anhydride	108-31-6					1.0E-01	I	7.0E-04	C		1	0.1	1.4E+09							7.8E+03	2.8E+04	9.9E+05		6.1E+03	
Maleic Hydrazide	123-33-1					5.0E-01	I				1	0.1	1.4E+09							3.9E+04	1.4E+05			3.1E+04	
Malononitrile	109-77-3					1.0E-04	P				1	0.1	1.4E+09							7.8E+00	2.8E+01			6.1E+00	
Mancozeb	177/8018					3.0E-02	H				1	0.1	1.4E+09							2.3E+03	8.4E+03			1.8E+03	
Maneb	12427-38-2					5.0E-03	I				1	0.1	1.4E+09							3.9E+02	1.4E+03			3.1E+02	
Manganese (Water)	7439-96-5					2.4E-02	I	5.0E-05	I		0.04		1.4E+09							1.9E+03		7.1E+04		1.8E+03	
MCPA	94-74-6					5.0E-04	I				1	0.1	1.4E+09							3.9E+01	1.4E+02			3.1E+01	
MCPB	94-81-5					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03			6.1E+02	
MCPB	93-65-2					1.0E-03	I				1	0.1	1.4E+09							7.8E+01	2.8E+02			6.1E+01	
Mephosfolan	950-10-7					9.0E-05	H				1	0.1	1.4E+09							7.0E+00	2.5E+01			5.5E+00	
Mepiquat Chloride	24307-26-4					3.0E-02	I				1	0.1	1.4E+09							2.3E+03	8.4E+03			1.8E+03	
Mercury Compounds																									
Mercuric Chloride	7487-94-7					3.0E-04	I				0.07		1.4E+09							2.3E+01				2.3E+01	
Mercuric Sulfide	1344-48-5					3.0E-04	S				1		1.4E+09							2.3E+01				2.3E+01	
Mercury (elemental)	7439-97-6							3.0E-04	I	V	1		1.4E+09	2.1E+04	3.1E+00							6.7E+00		6.7E+00	
Mercury, Inorganic Salts	NA					3.0E-04	I				0.07		1.4E+09							2.3E+01				2.3E+01	
Methyl Mercury	22967-92-6					1.0E-04	I				1		1.4E+09							7.8E+00				7.8E+00	
Phenylmercuric Acetate	62-38-4					8.0E-05	I				1	0.1	1.4E+09							6.3E+00	2.2E+01			4.9E+00	
Merphos	150-50-5					3.0E-05	I				1	0.1	1.4E+09							2.3E+00	8.4E+00			1.8E+00	
Merphos Oxide	78-48-8					3.0E-05	I				1	0.1	1.4E+09							2.3E+00	8.4E+00			1.8E+00	
Metalaxyl	5																								

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Key: I = IRIS; P = PPRVT; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information											Carcinogenic Target Risk (TR) = 1E-06				Noncancer Hazard Index (HI) = 1								
		SFO	k _e	IUR	k _e	RfD _o	k _e	RfC _l	k _e	V	muta-	RAGS	RAGS	PEF	VF	Csat	Ingestion	Dermal	Inhalation	Total	Ingestion	Dermal	Inhalation	Total	
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y	o	gen	Part E	Part E	(m ³ /kg)	(m ³ /kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Octamethylpyrophosphoramide	152-16-9					2.0E-03	H				1	0.1	1.4E+09							1.6E+02	5.6E+02		1.2E+02		
Oryzalin	19044-88-3					5.0E-02	I				1	0.1	1.4E+09							3.9E+03	1.4E+04		3.1E+03		
Oxadiazon	19666-30-9					5.0E-03	I				1	0.1	1.4E+09							3.9E+02	1.4E+03		3.1E+02		
Oxamyl	23135-22-0					2.5E-02	I				1	0.1	1.4E+09							2.0E+03	7.0E+03		1.5E+03		
Paclobutrazol	76738-62-0					1.3E-02	I				1	0.1	1.4E+09							1.0E+03	3.6E+03		7.9E+02		
Polynuclear Aromatic Hydrocarbons (PAHs)																									
Acenaphthene	83-32-9					6.0E-02	I				V	1	0.13	1.4E+09	1.7E+05					4.7E+03	1.3E+04		3.4E+03		
Anthracene	120-12-7					3.0E-01	I				V	1	0.13	1.4E+09	6.3E+05					2.3E+04	6.4E+04		1.7E+04		
Benz[a]anthracene	56-55-3	7.3E-01	*	1.1E-04	C						M	1	0.13	1.4E+09					2.0E-01	5.3E-01	1.2E+04	1.5E-01			
Benzo[a]pyrene	50-32-8	7.3E+00	I	1.1E-03	C						M	1	0.13	1.4E+09					2.0E-02	5.3E-02	1.2E+03	1.5E-02			
Benzo[b]fluoranthene	205-99-2	7.3E-01	*	1.1E-04	C						M	1	0.13	1.4E+09					2.0E-01	5.3E-01	1.2E+04	1.5E-01			
Benzo[k]fluoranthene	207-08-9	7.3E-02	*	1.1E-04	C						M	1	0.13	1.4E+09					2.0E+00	5.3E+00	1.2E+04	1.5E+00			
Chrysene	218-01-9	7.3E-03	*	1.1E-05	C						M	1	0.13	1.4E+09					2.0E+01	5.3E+01	1.2E+05	1.5E+01			
Dibenz[a,h]anthracene	53-70-3	7.3E+00	*	1.2E-03	C						M	1	0.13	1.4E+09					2.0E-02	5.3E-02	1.1E+03	1.5E-02			
Fluoranthene	206-44-0					4.0E-02	I				V	1	0.13	1.4E+09						3.1E+03	8.6E+03		2.3E+03		
Fluorene	86-73-7					4.0E-02	I				V	1	0.13	1.4E+09	3.4E+05				3.1E+03	8.6E+03		2.3E+03			
Indeno[1,2,3-cd]pyrene	193-39-5	7.3E-01	*	1.1E-04	C						M	1	0.13	1.4E+09					2.0E-01	5.3E-01	1.2E+04	1.5E-01			
Methylnaphthalene, 1-	90-12-0	2.9E-02	P			7.0E-03	P				V	1	1.4E+09	6.9E+04	4.6E+02				2.2E+01				5.5E+02		
Methylnaphthalene, 2-	91-57-6					4.0E-03	I				V	1	1.4E+09	6.8E+04	4.4E+02				2.2E+01				3.1E+02		
Naphthalene	91-20-3					3.4E-05	C	2.0E-02	I	3.0E-03	I	V	1	0.13	1.4E+09	5.4E+04				3.9E+00	3.9E+00	1.6E+03	4.3E+03	1.7E+02	1.5E+02
Pyrene	129-00-0					3.0E-02	I				V	1	0.13	1.4E+09	2.9E+06					2.3E+03	6.4E+03		1.7E+03		
Paraquat Dichloride	1910-42-5					4.5E-03	I				V	1	0.1	1.4E+09						3.5E+02	1.3E+03		2.7E+02		
Parathion	56-38-2					6.0E-03	H				V	1	0.1	1.4E+09						4.7E+02	1.7E+03		3.7E+02		
Polychlorinated Biphenyls (PCBs)																									
Aroclor 1016	12674-11-2	7.0E-02	I	2.0E-05	I	7.0E-05	I				V	1	0.14	1.4E+09					9.1E+00	2.1E+01	1.7E+05	6.3E+00	5.5E+00	1.4E+01	3.9E+00
Aroclor 1221	11104-28-2	2.0E+00	I	5.7E-04	I						V	1	0.14	1.4E+09	1.8E+05	3.0E+02				3.2E-01	7.2E-01	7.8E-01	1.7E-01		
Aroclor 1232	11141-16-5	2.0E+00	I	5.7E-04	I						V	1	0.14	1.4E+09	1.8E+05	3.0E+02				3.2E-01	7.2E-01	7.8E-01	1.7E-01		
Aroclor 1242	53469-21-9	2.0E+00	I	5.7E-04	I						V	1	0.14	1.4E+09						3.2E-01	7.2E-01	5.8E+03	2.2E-01		
Aroclor 1248	12672-29-6	2.0E+00	I	5.7E-04	I						V	1	0.14	1.4E+09						3.2E-01	7.2E-01	5.8E+03	2.2E-01		
Aroclor 1254	11097-69-1	2.0E+00	I	5.7E-04	I	2.0E-05	I				V	1	0.14	1.4E+09						3.2E-01	7.2E-01	5.8E+03	2.2E-01		
Aroclor 1260	11096-82-5	2.0E+00	I	5.7E-04	I						V	1	0.14	1.4E+09						3.2E-01	7.2E-01	5.8E+03	2.2E-01		
Heptachlorobiphenyl, 2,2',3,3',4,4',5'- (PCB 170)	35065-30-6	1.5E+01	W	3.3E-03	W						V	1	0.14	1.4E+09					4.3E-02	9.6E-02	1.0E+03	3.0E-02			
Heptachlorobiphenyl, 2,2',3,4,4',5,5'- (PCB 180)	35065-29-3	1.5E+00	W	3.3E-04	W						V	1	0.14	1.4E+09					4.3E-01	9.6E-01	1.0E+04	3.0E-01			
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	4.5E+00	W	9.9E-04	W						V	1	0.14	1.4E+09					1.4E-01	3.2E-01	3.3E+03	9.8E-02			
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	4.5E+00	W	9.9E-04	W						V	1	0.14	1.4E+09					1.4E-01	3.2E-01	3.3E+03	9.8E-02			
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	4.5E+00	W	9.9E-04	W						V	1	0.14	1.4E+09					1.4E-01	3.2E-01	3.3E+03	9.8E-02			
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 156)	38380-08-4	4.5E+00	W	9.9E-04	W						V	1	0.14	1.4E+09					1.4E-01	3.2E-01	3.3E+03	9.8E-02			
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	4.5E+03	W	9.9E-01	W						V	1	0.14	1.4E+09					1.4E-04	3.2E-04	3.3E+00	9.8E-05			
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	4.5E+00	W	9.9E-04	W						V	1	0.14	1.4E+09					1.4E-01	3.2E-01	3.3E+03	9.8E-02			
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	4.5E+00	W	9.9E-04	W						V	1	0.14	1.4E+09					1.4E-01	3.2E-01	3.3E+03	9.8E-02			
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	4.5E+00	W	9.9E-04	W						V	1	0.14	1.4E+09					1.4E-01	3.2E-01	3.3E+03	9.8E-02			
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	4.5E+00	W	9.9E-04	W						V	1	0.14	1.4E+09					1.4E-01	3.2E-01	3.3E+03	9.8E-02			
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	1.5E+04	W	3.3E+00	W						V	1	0.14	1.4E+09					4.3E-05	9.6E-05	1.0E+00	3.0E-05			
Polychlorinated Biphenyls (high risk)	1336-36-3	2.0E+00	I	5.7E-04	C						V	1	0.1	1.4E+09					3.2E-01	1.0E+00	5.8E+03	2.4E-01			
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	1.5E+01	W	3.3E-03	W						V	1	0.14	1.4E+09					4.3E-02	9.6E-02	1.0E+03	3.0E-02			
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	4.5E+01	W	9.9E-03	W						V	1	0.14	1.4E+09					1.4E-02	3.2E-02	3.3E+02	9.8E-03			
Pebulate	1114-71-2					5.0E-02	H				V	1	0.1	1.4E+09						3.9E+03	1.4E+04		3.1E+03		
Pendimethalin	40487-42-1					4.0E-02	I				V	1	0.1	1.4E+09						3.1E+03	1.1E+04		2.4E+03		
Pentabromodiphenyl Ether	32534-81-9					2.0E-03	I				V	1	0.1	1.4E+09						1.6E+02	5.6E+02		1.2E+02		
Pentachlorobenzene	608-93-5					8.0E-04	I				V	1	0.1	1.4E+09						6.3E+01	2.2E+02		4.9E+01		
Pentachloronitrobenzene	82-68-8	2.6E-01	H			3.0E-03	I				V	1	0.1	1.4E+09					2.5E+00	7.8E+00	1.9E+00	2.3E+02	8.4E+02	1.8E+02	
Pentachlorophenol	87-86-5	1.2E-01	I			3.0E-02	I				V	1	0.25	1.4E+09					5.3E+00	6.7E+00	3.0E+00	2.3E+03	3.4E+03	1.4E+03	
Perchlorate and Perchlorate Salts	14797-73-0					7.0E-04	I				V	1	1.4E+09										5.5E+01		
Permethrin	52645-53-1					5.0E-02	I				V	1	0.1	1.4E+09						3.9E+03	1.4E+04		3.1E+03		
Phenmedipham	13684-63-4					2.5E-01	I				V	1	0.1	1.4E+09						2.0E+04	7.0E+04		1.5E+04		
Phenol	108-95-2					3.0E-01	I	2.0E-01	C		V	1	0.1	1.4E+09						2.3E+04	8.4E+04	2.8E+08	1.8E+04		
Phenylenediamine, m-	108-45-2					6.0E-03	I				V	1	0.1	1.4E+09						4.7E+02	1.7E+0				

Table A-1 -- Residential Soil RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information											Carcinogenic Target Risk (TR) = 1E-06				Noncancer Hazard Index (HI) = 1								
		SFO	k _e	IUR	k _e	RfDo	k _e	RfCd	k _e	V	muta-	RAGS	RAGS	PEF	VF	Csat	Ingestion	Dermal	Inhalation	Total	Ingestion	Dermal	Inhalation	Total	
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y		gen	Part E	Part E	(m ³ /kg)	(m ³ /kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Phosmet	732-11-6					2.0E-02	I				1	0.1	1.4E+09							1.6E+03	5.6E+03		1.2E+03		
Phosphine	7803-51-2					3.0E-04	I	3.0E-04	I		1		1.4E+09							2.3E+01		4.3E+05	2.3E+01		
Phosphoric Acid	7664-38-2							1.0E-02	I		1		1.4E+09									1.4E+07	1.4E+07		
Phosphorus, White	7723-14-0					2.0E-05	I				1		1.4E+09							1.6E+00			1.6E+00		
Phthalic Acid, P-	100-21-0					1.0E+00	H				1	0.1	1.4E+09							7.8E+04	2.8E+05		6.1E+04		
Phthalic Anhydride	85-44-9					2.0E+00	I	2.0E-02	C		1	0.1	1.4E+09							1.6E+05	5.6E+05	2.8E+07	1.2E+05		
Picloram	2/1/1918					7.0E-02	I				1	0.1	1.4E+09							5.5E+03	2.0E+04		4.3E+03		
Pirimiphos, Methyl	29232-93-7					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03		6.1E+02		
Polybrominated Biphenyls	59536-65-1	3.0E+01	C	8.6E-03	C	7.0E-06	H				1	0.1	1.4E+09						2.1E-02	6.7E-02	3.8E+02	1.6E-02	5.5E-01	2.0E+00	4.3E-01
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9							6.0E-04	I		1	0.1	1.4E+09									8.5E+05	8.5E+05		
Potassium Perchlorate	7778-74-7					7.0E-04	I				1		1.4E+09							5.5E+01			5.5E+01		
Prochloraz	67747-09-5	1.5E-01	I			9.0E-03	I				1	0.1	1.4E+09						4.3E+00	1.3E+01		3.2E+00	7.0E+02	2.5E+03	5.5E+02
Profuralin	26399-36-0					6.0E-03	H				1	0.1	1.4E+09							4.7E+02	1.7E+03		3.7E+02		
Prometon	1610-18-0					1.5E-02	I				1	0.1	1.4E+09							1.2E+03	4.2E+03		9.2E+02		
Prometryn	7287-19-6					4.0E-03	I				1	0.1	1.4E+09							3.1E+02	1.1E+03		2.4E+02		
Propachlor	1918-16-7					1.3E-02	I				1	0.1	1.4E+09							1.0E+03	3.6E+03		7.9E+02		
Propanil	709-98-8					5.0E-03	I				1	0.1	1.4E+09							3.9E+02	1.4E+03		3.1E+02		
Propargite	2312-35-8					2.0E-02	I				1	0.1	1.4E+09							1.6E+03	5.6E+03		1.2E+03		
Propargyl Alcohol	107-19-7					2.0E-03	I				1	0.1	1.4E+09							1.6E+02	5.6E+02		1.2E+02		
Propazine	139-40-2					2.0E-02	I				1	0.1	1.4E+09							1.6E+03	5.6E+03		1.2E+03		
Propham	122-42-9					2.0E-02	I				1	0.1	1.4E+09							1.6E+03	5.6E+03		1.2E+03		
Propiconazole	60207-90-1					1.3E-02	I				1	0.1	1.4E+09							1.0E+03	3.6E+03		7.9E+02		
Propylene Glycol	57-55-6					2.0E+01	P				1	0.1	1.4E+09							1.6E+06	5.6E+06		1.2E+06		
Propylene Glycol Dinitrate	6423-43-4							A	2.7E-04	A	V	1		1.4E+09	2.1E+05	1.4E+03						6.0E+01	6.0E+01		
Propylene Glycol Monoethyl Ether	1569-02-4					7.0E-01	H				1	0.1	1.4E+09							5.5E+04	2.0E+05		4.3E+04		
Propylene Glycol Monomethyl Ether	107-98-2					7.0E-01	H	2.0E+00	I		1	0.1	1.4E+09							5.5E+04	2.0E+05	2.8E+09	4.3E+04		
Propylene Oxide	75-56-9	2.4E-01	I	3.7E-06	I			3.0E-02	I	V	1		1.4E+09	9.6E+03	6.8E+04				2.7E+00		6.3E+00	1.9E+00	3.0E+02	3.0E+02	
Pursuit	81335-77-5					2.5E-01	I				1	0.1	1.4E+09							2.0E+04	7.0E+04		1.5E+04		
Pyridin	51630-58-1					2.5E-02	I				1	0.1	1.4E+09							2.0E+03	7.0E+03		1.5E+03		
Pyridine	110-86-1					1.0E-03	I				1		1.4E+09	4.5E+04	3.0E+05					7.8E+01			7.8E+01		
Quinalphos	13593-03-8					5.0E-04	I				1	0.1	1.4E+09							3.9E+01	1.4E+02		3.1E+01		
Quinoline	91-22-5	3.0E+00	I								1	0.1	1.4E+09						2.1E-01	6.7E-01		1.6E-01			
Refractory Ceramic Fibers	NA							3.0E-02	A		1		1.4E+09									4.3E+07	4.3E+07		
Resmethrin	10453-86-8					3.0E-02	I				1	0.1	1.4E+09							2.3E+03	8.4E+03		1.8E+03		
Ronnel	299-84-3					5.0E-02	H				1	0.1	1.4E+09							3.9E+03	1.4E+04		3.1E+03		
Rotenone	83-79-4					4.0E-03	I				1	0.1	1.4E+09							3.1E+02	1.1E+03		2.4E+02		
Savey	78587-05-0					2.5E-02	I				1	0.1	1.4E+09							2.0E+03	7.0E+03		1.5E+03		
Selenious Acid	7783-00-8					5.0E-03	I				1		1.4E+09							3.9E+02			3.9E+02		
Selenium	7782-49-2					5.0E-03	I				1		1.4E+09							3.9E+02			3.9E+02		
Selenourea	630-10-4					5.0E-03	H				1	0.1	1.4E+09							3.9E+02	1.4E+03		3.1E+02		
Sethoxydim	74051-80-2					9.0E-02	I				1	0.1	1.4E+09							7.0E+03	2.5E+04		5.5E+03		
Silver	7440-22-4					5.0E-03	I				0.04		1.4E+09							3.9E+02			3.9E+02		
Simazine	122-34-9	1.2E-01	H			5.0E-03	I				1	0.1	1.4E+09						5.3E+00	1.7E+01		4.0E+00	3.9E+02	1.4E+03	3.1E+02
Sodium Acifluorfen	62476-59-9					1.3E-02	I				1	0.1	1.4E+09							1.0E+03	3.6E+03		7.9E+02		
Sodium Azide	26628-22-8					4.0E-03	I				1		1.4E+09							3.1E+02			3.1E+02		
Sodium Diethyldithiocarbamate	148-18-5	2.7E-01	H			3.0E-02	I				1	0.1	1.4E+09						2.4E+00	7.5E+00		1.8E+00	2.3E+03	8.4E+03	1.8E+03
Sodium Fluoroacetate	62-74-8					2.0E-05	I				1	0.1	1.4E+09							1.6E+00	5.6E+00		1.2E+00		
Sodium Metavanadate	13718-26-8					1.0E-03	H				1		1.4E+09							7.8E+01			7.8E+01		
Sodium Perchlorate	7601-89-0					7.0E-04	I				1		1.4E+09							5.5E+01			5.5E+01		
Stirofos (Tetrachlorovinphos)	961-11-5	2.4E-02	H			3.0E-02	I				1	0.1	1.4E+09						2.7E+01	8.4E+01		2.0E+01	2.3E+03	8.4E+03	1.8E+03
Strontium, Stable	7440-24-6					6.0E-01	I				1		1.4E+09							4.7E+04			4.7E+04		
Strychnine	57-24-9					3.0E-04	I				1	0.1	1.4E+09							2.3E+01	8.4E+01		1.8E+01		
Styrene	100-42-5					2.0E-01	I	1.0E+00	I	V	1		1.4E+09	1.1E+04	1.0E+03					1.6E+04		1.1E+04	6.5E+03		
Systhane	88671-89-0					2.5E-02	I				1	0.1	1.4E+09							2.0E+03	7.0E+03		1.5E+03		
TCMTB	21564-17-0					3.0E-02	H				1	0.1	1.4E+09							2.3E+03	8.4E+03		1.8E+03		
Tebuthiuron	34014-18-1					7.0E-02	I				1	0.1	1.4E+09							5.5E+03	2.0E+04		4.3E+03		
Temephos	3383-96-8					2.0E-02	H				1	0.1	1.4E+09							1.6E+03	5.6E+03		1.2E+03		
Terbacil	5902-51-2					1.3E-02	I				1	0.1	1.4E+09							1.0E+03	3.6E+03		7.9E+02		
Terbufos	13071-79-9					2.5E-05	H				1	0.1	1.4E+09							2.0E+00	7.0E+00		1.5E+00		
Terbutryn	886-50-0					1.0E-03	I				1	0.1	1.4E+09							7.8E+01	2.8E+02		6.1E+01		
Tetrachlorobenzene, 1,2,4,5-	95-94-3					3.0E-04																			

Table A-1 -- Residential Soil RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information														Carcinogenic Target Risk (TR) = 1E-06				Noncancer Hazard Index (HI) = 1			
		SFO	k	IUR	k	RfDo	k	RfC	k	V	RAGS	RAGS	PEF	VF	Csat	Ingestion	Dermal	Inhalation	Total	Ingestion	Dermal	Inhalation	Total
		(mg/kg-day) ⁻¹	e	(ug/m ³ -1)	e	(mg/kg-day)	e	(mg/m ³)	e	o	Part E	Part E	(m ³ /kg)	(m ³ /kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Tetrachloroethane, 1,1,2,2-	79-34-5	2.0E-01	I	5.8E-05	I				V	1			1.4E+09	1.7E+04	2.1E+03	3.2E+00		7.2E-01	5.9E-01				
Tetrachloroethylene	127-18-4	5.4E-01	C	5.9E-06	C	1.0E-02	I	2.7E-01	A	V	1		1.4E+09	2.6E+03	1.8E+02	1.2E+00		1.1E+00	5.7E-01	7.8E+02		7.5E+02	3.8E+02
Tetrachlorophenol, 2,3,4,6-	58-90-2					3.0E-02	I				1	0.1	1.4E+09							2.3E+03	8.4E+03		1.8E+03
Tetrachlorotoluene, p- alpha, alpha, alpha-Tetraethyl Dithiopyrophosphate	5216-25-1 3689-24-5	2.0E+01	H			5.0E-04	I				1	0.1	1.4E+09			3.2E-02	1.0E-01	2.4E-02					
Tetrafluoroethane, 1,1,1,2-	811-97-2							8.0E+01	I	V	1		1.4E+09	1.4E+03	8.2E+02							1.1E+05	1.1E+05
Tetryl (Trinitrophenylmethyl nitramine)	479-45-8					4.0E-03	P				1	0.1	1.4E+09							3.1E+02	1.1E+03		2.4E+02
Thallium (I) Nitrate	10102-45-1					9.0E-05	I				1		1.4E+09							7.0E+00			7.0E+00
Thallium (Soluble Salts)	7440-28-0					6.5E-05	S				1		1.4E+09							5.1E+00			5.1E+00
Thallium Acetate	563-68-8					9.0E-05	I				1		1.4E+09							7.0E+00			7.0E+00
Thallium Carbonate	6533-73-9					8.0E-05	I				1		1.4E+09							6.3E+00			6.3E+00
Thallium Chloride	7791-12-0					8.0E-05	I				1		1.4E+09							6.3E+00			6.3E+00
Thallium Sulfate	7446-18-6					8.0E-05	I				1		1.4E+09							6.3E+00			6.3E+00
Thiobencarb	28249-77-6					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03		6.1E+02
Thiofanox	39196-18-4					3.0E-04	H				1	0.1	1.4E+09							2.3E+01	8.4E+01		1.8E+01
Thiophanate, Methyl	23564-05-8					8.0E-02	I				1	0.1	1.4E+09							6.3E+03	2.2E+04		4.9E+03
Thiram	137-26-8					5.0E-03	I				1	0.1	1.4E+09							3.9E+02	1.4E+03		3.1E+02
Tin	7440-31-5					6.0E-01	H				1		1.4E+09							4.7E+04			4.7E+04
Toluene	108-88-3					8.0E-02	I	5.0E+00	I	V	1		1.4E+09	4.9E+03	9.3E+02					6.3E+03		2.6E+04	5.0E+03
Toluene diisocyanate mixture (TDI)	26471-62-5							7.0E-05	I	V	1		1.4E+09	7.5E+05	2.1E+03							5.4E+01	5.4E+01
Toluene-2,4-diamine	95-80-7	3.8E+00	C	1.1E-03	C						1	0.1	1.4E+09			1.7E-01	5.3E-01	3.0E+03	1.3E-01				
Toluene-2,5-diamine	95-70-5					6.0E-01	H				1	0.1	1.4E+09							4.7E+04	1.7E+05		3.7E+04
Toluene-2,6-diamine	823-40-5					3.0E-02	P				1	0.1	1.4E+09							2.3E+03	8.4E+03		1.8E+03
Toluidine, o- (Methylaniline, 2-)	95-53-4	1.8E-01	C	5.1E-05	C						1	0.1	1.4E+09			3.5E+00	1.1E+01	6.5E+04	2.7E+00				
Toluidine, p-	106-49-0	1.9E-01	H								1	0.1	1.4E+09			3.4E+00	1.1E+01	2.6E+00					
Toxaphene	8001-35-2	1.1E+00	I	3.2E-04	I						1	0.1	1.4E+09			5.8E-01	1.8E+00	1.0E+04	4.4E-01				
Tralometrin	66841-25-6					7.5E-03	I				1	0.1	1.4E+09							5.9E+02	2.1E+03		4.6E+02
Triallate	2303-17-5					1.3E-02	I				1	0.1	1.4E+09							1.0E+03	3.6E+03		7.9E+02
Triasulfuron	82097-50-5					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03		6.1E+02
Tribromobenzene, 1,2,4-	615-54-3					5.0E-03	I				1	0.1	1.4E+09							3.9E+02	1.4E+03		3.1E+02
Tributyltin Compounds	NA					3.0E-04	P				1	0.1	1.4E+09							2.3E+01	8.4E+01		1.8E+01
Tributyltin Oxide	56-35-9					3.0E-04	I				1	0.1	1.4E+09							2.3E+01	8.4E+01		1.8E+01
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1					3.0E+01	I	3.0E+01	H	V	1		1.4E+09	1.4E+03	9.4E+02					2.3E+06		4.4E+04	4.3E+04
Trichloroaniline HCl, 2,4,6-	33663-50-2	2.9E-02	H								1	0.1	1.4E+09			2.2E+01	7.0E+01	1.7E+01					
Trichloroaniline, 2,4,6-	634-93-5	3.4E-02	H								1	0.1	1.4E+09			1.9E+01	6.0E+01	1.4E+01					
Trichlorobenzene, 1,2,4-	120-82-1	3.6E-03	C			1.0E-02	I			V	1		1.4E+09	2.4E+04	2.2E+02	1.8E+02			1.8E+02	7.8E+02			7.8E+02
Trichloroethane, 1,1,1-	71-55-6					2.0E+00	I	5.0E+00	I	V	1		1.4E+09	1.8E+03	6.8E+02					1.6E+05		9.5E+03	9.0E+03
Trichloroethane, 1,1,2-	79-00-5	5.7E-02	I	1.6E-05	I	4.0E-03	I			V	1		1.4E+09	8.1E+03	5.6E+02	1.1E+01		1.2E+00	1.1E+00	3.1E+02			3.1E+02
Trichloroethylene	79-01-6	1.3E-02	C	2.0E-06	C					V	1		1.4E+09	2.5E+03	7.5E+02	4.9E+01		3.0E+00	2.8E+00				
Trichlorofluoromethane	75-69-4					3.0E-01	I	7.0E-01	H	V	1		1.4E+09	1.1E+03	1.3E+03					2.3E+04		8.2E+02	8.0E+02
Trichlorophenol, 2,4,5-	95-95-4					1.0E-01	I				1	0.1	1.4E+09							7.8E+03	2.8E+04		6.1E+03
Trichlorophenol, 2,4,6-	88-06-2	1.1E-02	I	3.1E-06	I	1.0E-03	P				1	0.1	1.4E+09			5.8E+01	1.8E+02	1.1E+06	4.4E+01	7.8E+01	2.8E+02		6.1E+01
Trichlorophenoxy Propionic Acid, 2(2,4,5-	93-72-1					8.0E-03	I				1	0.1	1.4E+09							6.3E+02	2.2E+03		4.9E+02
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5					1.0E-02	I				1	0.1	1.4E+09							7.8E+02	2.8E+03		6.1E+02
Trichloropropane, 1,1,2-	598-77-6					5.0E-03	I			V	1		1.4E+09	1.7E+04	1.4E+03					3.9E+02			3.9E+02
Trichloropropane, 1,2,3-	96-18-4	7.0E+00	H			6.0E-03	I			V	1		1.4E+09	1.8E+04	1.6E+03	9.1E-02		9.1E-02	4.7E+02				4.7E+02
Tridiphane	58138-08-2					3.0E-03	I				1	0.1	1.4E+09							2.3E+02	8.4E+02		1.8E+02
Triethylamine	121-44-8							7.0E-03	I	V	1		1.4E+09	2.3E+04	5.5E+04							1.7E+02	1.7E+02
Trifluralin	1582-09-8	7.7E-03	I			7.5E-03	I				1	0.1	1.4E+09			8.3E+01	2.6E+02	6.3E+01	5.9E+02	2.1E+03			4.6E+02
Trimethyl Phosphate	512-56-1	3.7E-02	H					7.0E-03	P	V	1		1.4E+09	9.2E+03	2.5E+02	1.7E+01	5.5E+01	1.3E+01				6.7E+01	6.7E+01
Trimethylbenzene, 1,2,4-	95-63-6										1		1.4E+09									6.7E+01	6.7E+01
Trinitrobenzene, 1,3,5-	99-35-4					3.0E-02	I				1	0.1	1.4E+09							2.3E+03	8.4E+03		1.8E+03
Trinitrotoluene, 2,4,6-	118-96-7	3.0E-02	I			5.0E-04	I				1	0.1	1.4E+09			2.1E+01	6.7E+01	1.6E+01	3.9E+01	1.4E+02			3.1E+01
Tri-n-butyltin	688-73-3					3.0E-04	A				1	0.1	1.4E+09							2.3E+01	8.4E+01		1.8E+01
Uranium (Soluble Salts)	NA					3.0E-03	I				1		1.4E+09							2.3E+02			2.3E+02
Vanadium Pentoxide	1314-62-1					9.0E-03	I				0.026		1.4E+09							7.0E+02			7.0E+02
Vanadium Sulfate	36907-42-3					2.0E-02	H				0.026		1.4E+09							1.6E+03			1.6E+03
Vanadium and Compounds	NA					5.0E-03	S				1		1.4E+09							3.9E+02			3.9E+02
Vanadium, Metallic	7440-62-2					7.0E-03	H				0.026		1.4E+09							5.5E+02			5.5E+02
Vanadyl Sulfate	27774-13-6					2.0E-02	H																

Table A-1 -- Residential Soil RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information											Carcinogenic Target Risk (TR) = 1E-06				Noncancer Hazard Index (HI) = 1						
Analyte	CAS No.	SFO	k	IUR	k	RfDo	k	RfCI	k	V	RAGS	RAGS	PEF	VF	Csat	Ingestion	Dermal	Inhalation	Total	Ingestion	Dermal	Inhalation	Total
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y	o	muta-	Part E	Part E	(m ³ /kg)	(m ³ /kg)	(mg/kg)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Vinyl Acetate	108-05-4					1.0E+00	H	2.0E-01	I	V	1		1.4E+09	4.8E+03	2.8E+03					7.8E+04	1.0E+03	9.9E+02	
Vinyl Bromide	593-60-2							3.0E-03	I	V	1		1.4E+09	1.5E+03	1.7E+03							4.7E+00	4.7E+00
Vinyl Chloride	75-01-4	7.2E-01	I	4.4E-06	I	3.0E-03	I	1.0E-01	I	V	M	1	1.4E+09	1.0E+03	4.0E+03	9.3E-02		1.7E-01	6.0E-02	2.3E+02	8.4E+01	1.1E+02	7.4E+01
Warfarin	81-81-2					3.0E-04	I					1	0.1	1.4E+09						2.3E+01	8.4E+01	1.8E+01	
Xylene, Mixture	1330-20-7					2.0E-01	I	1.0E-01	I	V	1		1.4E+09	5.9E+03	3.0E+02					1.6E+04		6.2E+02	6.0E+02
Xylene, P-	106-42-3							7.0E-01	C	V	1		1.4E+09	6.4E+03	4.5E+02							4.7E+03	4.7E+03
Xylene, m-	108-38-3					2.0E+00	H	7.0E-01	C	V	1		1.4E+09	6.3E+03	4.4E+02					1.6E+05		4.6E+03	4.5E+03
Xylene, o-	95-47-6					2.0E+00	H	7.0E-01	C	V	1		1.4E+09	7.4E+03	3.0E+02					1.6E+05		5.4E+03	5.3E+03
Zinc (Metallic)	7440-66-6					3.0E-01	I				1		1.4E+09							2.3E+04		2.3E+04	
Zinc Phosphide	1314-84-7					3.0E-04	I				1		1.4E+09							2.3E+01		2.3E+01	
Zineb	12122-67-7					5.0E-02	I				1	0.1	1.4E+09							3.9E+03	1.4E+04	3.1E+03	

Table A-2 -- Residential Air RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Acephate	30560-19-1								
Acetaldehyde	75-07-0	2.2E-06	I	9.0E-03	I	V		1.1E+00	9.4E+00
Acetochlor	34256-82-1								
Acetone	67-64-1			3.1E+01	A	V			3.2E+04
Acetone Cyanohydrin	75-86-5			6.0E-02	P	V			6.3E+01
Acetonitrile	75-05-8			6.0E-02	I	V			6.3E+01
Acetophenone	98-86-2					V			
Acrolein	107-02-8			2.0E-05	I	V			2.1E-02
Acrylamide	79-06-1	1.3E-03	I					1.9E-03	
Acrylic Acid	79-10-7			1.0E-03	I				1.0E+00
Acrylonitrile	107-13-1	6.8E-05	I	2.0E-03	I	V		3.6E-02	2.1E+00
Adiponitrile	111-69-3			6.0E-03	P				6.3E+00
Alachlor	15972-60-8								
ALAR	1596-84-5								
Aldicarb	116-06-3								
Aldicarb Sulfone	1646-88-4								
Aldrin	309-00-2	4.9E-03	I					5.0E-04	
Ally	74223-64-6								
Allyl Alcohol	107-18-6			3.0E-04	P				3.1E-01
Allyl Chloride	107-05-1			1.0E-03	I	V			1.0E+00
Aluminum	7429-90-5			5.0E-03	P				5.2E+00
Aluminum Phosphide	20859-73-8								
Amdro	67485-29-4								
Ametryn	834-12-8								
Aminophenol, m-	591-27-5								
Aminophenol, p-	123-30-8								
Aminopyridine, 4-	504-24-5								
Amitraz	33089-61-1								
Ammonia	7664-41-7			1.0E-01	I				1.0E+02
Ammonium Perchlorate	7790-98-9								
Ammonium Sulfamate	7773-06-0								
Aniline	62-53-3			1.0E-03	I				1.0E+00
Antimony (metallic)	7440-36-0								
Antimony Pentoxide	1314-60-9								
Antimony Potassium Tartrate	304-61-0								
Antimony Tetroxide	1332-81-6								
Antimony Trioxide	1309-64-4			2.0E-04	I				2.1E-01
Apollo	74115-24-5								
Aramite	140-57-8	7.1E-06	I					3.4E-01	
Arsenic, Inorganic	7440-38-2	4.3E-03	I	3.0E-05	C			5.7E-04	3.1E-02
Arsine	7784-42-1			5.0E-05	I				5.2E-02
Assure	76578-14-8								
Asulam	3337-71-1								
Atrazine	1912-24-9								

Table A-2 -- Residential Air RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Avermectin B1	65195-55-3								
Azobenzene	103-33-3	3.1E-05	I			V		7.8E-02	
Barium	7440-39-3			5.0E-04		H			5.2E-01
Baygon	114-26-1								
Bayleton	43121-43-3								
Baythroid	68359-37-5								
Benefin	1861-40-1								
Benomyl	17804-35-2								
Bentazon	25057-89-0								
Benzaldehyde	100-52-7					V			
Benzene	71-43-2	7.8E-06	I	3.0E-02	I	V		3.1E-01	3.1E+01
Benzenethiol	108-98-5					V			
Benzidine	92-87-5	6.7E-02	I				M	1.4E-05	
Benzoic Acid	65-85-0								
Benzotrichloride	98-07-7					V			
Benzyl Alcohol	100-51-6								
Benzyl Chloride	100-44-7					V			
Beryllium and compounds	7440-41-7	2.4E-03	I	2.0E-05	I			1.0E-03	2.1E-02
Bidrin	141-66-2								
Bifenox	42576-02-3								
Biphenrin	82657-04-3								
Biphenyl, 1,1'-	92-52-4					V			
Bis(2-chloroethoxy)methane	111-91-1								
Bis(2-chloroethyl)ether	111-44-4	3.3E-04	I			V		7.4E-03	
Bis(2-chloro-1-methylethyl) ether	108-60-1	1.0E-05	H			V		2.4E-01	
Bis(2-ethylhexyl)phthalate	117-81-7								
Bis(chloromethyl)ether	542-88-1	6.2E-02	I			V		3.9E-05	
Bisphenol A	80-05-7								
Boron And Borates Only	7440-42-8			2.0E-02		H			2.1E+01
Boron Trifluoride	7/2/7637			7.0E-04		H			7.3E-01
Bromate	15541-45-4								
Bromodichloromethane	75-27-4					V			
Bromoform	75-25-2	1.1E-06	I					2.2E+00	
Bromomethane	74-83-9			5.0E-03	I	V			5.2E+00
Bromophos	2104-96-3								
Bromoxynil	1689-84-5								
Bromoxynil Octanoate	1689-99-2								
Butadiene, 1,3-	106-99-0	3.0E-05	I	2.0E-03	I	V		8.1E-02	2.1E+00
Butanol, N-	71-36-3								
Butyl Benzyl Phthlate	85-68-7								
Butylate	2008-41-5								
Butylphthalyl Butylglycolate	85-70-1								
Cacodylic Acid	75-60-5								

Table A-2 -- Residential Air RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Cadmium (Water)	7440-43-9	1.8E-03	I					1.4E-03	
Caprolactam	105-60-2								
Captadol	6/1/2425	4.3E-05	C					5.7E-02	
Captan	133-06-2	6.6E-07	C					3.7E+00	
Carbaryl	63-25-2								
Carbazole	86-74-8								
Carbofuran	1563-66-2								
Carbon Disulfide	75-15-0			7.0E-01	I	V			7.3E+02
Carbon Tetrachloride	56-23-5	1.5E-05	I	1.9E-01	A	V		1.6E-01	2.0E+02
Carbosulfan	55285-14-8								
Carboxin	5234-68-4								
Chloral Hydrate	302-17-0								
Chloramben	133-90-4								
Chloranil	118-75-2								
Chlordane	57-74-9	1.0E-04	I	7.0E-04	I			2.4E-02	7.3E-01
Chlordecone (Kepone)	143-50-0	4.6E-03	C					5.3E-04	
Chlorimuron, Ethyl-	90982-32-4								
Chlorine	7782-50-5			1.5E-04	A				1.5E-01
Chlorine Dioxide	10049-04-4			2.0E-04	I				2.1E-01
Chlorite (Sodium Salt)	7758-19-2								
Chloro-1,1-difluoroethane, 1-	75-68-3			5.0E+01	I	V			5.2E+04
Chloro-1,3-butadiene, 2-	126-99-8			7.0E-03	H	V			7.3E+00
Chloro-2-methylaniline HCl, 4-	3165-93-3								
Chloro-2-methylaniline, 4-	95-69-2	7.7E-05	C					3.2E-02	
Chloroacetic Acid	79-11-8								
Chloroacetophenone, 2-	532-27-4			3.0E-05	I				3.1E-02
Chloroaniline, p-	106-47-8								
Chlorobenzene	108-90-7			5.0E-02	P	V			5.2E+01
Chlorobenzilate	510-15-6	3.1E-11	C					7.8E+04	
Chlorobenzoic Acid, p-	74-11-3								
Chlorobenzotrifluoride, 4-	98-56-6			3.0E-01	P	V			3.1E+02
Chlorobutane, 1-	109-69-3					V			
Chlorodifluoromethane	75-45-6			5.0E+01	I	V			5.2E+04
Chloroform	67-66-3	2.3E-05	I	9.8E-02	A	V		1.1E-01	1.0E+02
Chloromethane	74-87-3	1.8E-06	H	9.0E-02	I	V		1.4E+00	9.4E+01
Chloronaphthalene, Beta-	91-58-7					V			
Chlorophenol, 2-	95-57-8					V			
Chloropropane, 2-	75-29-6			1.0E-01	H	V			1.0E+02
Chlorothalonil	1897-45-6	8.9E-07	C					2.7E+00	
Chlorotoluene, o-	95-49-8					V			
Chlorpropham	101-21-3								
Chlorpyrifos	2921-88-2								
Chlorpyrifos Methyl	5598-13-0								

Table A-2 -- Residential Air RSLs

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Chlorsulfuron	64902-72-3								
Chlorthiophos	60238-56-4								
Chromium (III) (Insoluble Salts)	16065-83-1								
Chromium VI (chromic acid mists)	18540-29-9	1.2E-02	I	8.0E-06	I			2.0E-04	8.3E-03
Chromium VI (particulates)	18540-29-9	1.2E-02	I	1.0E-04	I			2.0E-04	1.0E-01
Coke Oven Emissions	8007-45-2	6.2E-04	I				M	1.5E-03	
Copper	7440-50-8								
Cresol, m-	108-39-4								
Cresol, o-	95-48-7								
Cresol, p-	106-44-5								
Crotonaldehyde, trans-	123-73-9						V		
Cumene	98-82-8			4.0E-01	I		V		4.2E+02
Cyanazine	21725-46-2								
Cyanides									
Calcium Cyanide	592-01-8								
Copper Cyanide	544-92-3								
Cyanide (CN-)	57-12-5								
Cyanogen	460-19-5						V		
Cyanogen Bromide	506-68-3						V		
Cyanogen Chloride	506-77-4						V		
Hydrogen Cyanide	74-90-8			3.0E-03	I		V		3.1E+00
Potassium Cyanide	151-50-8								
Potassium Silver Cyanide	506-61-6								
Silver Cyanide	506-64-9								
Sodium Cyanide	143-33-9								
Thiocyanate	463-56-9						V		
Zinc Cyanide	557-21-1								
Cyclohexane	110-82-7			6.0E+00	I		V		6.3E+03
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3								
Cyclohexanone	108-94-1								
Cyclohexylamine	108-91-8								
Cyhalothrin/karate	68085-85-8								
Cypermethrin	52315-07-8								
Cyromazine	66215-27-8								
Dacthal	1861-32-1								
Dalapon	75-99-0								
DDD	72-54-8								
DDE, p,p'-	72-55-9								
DDT	50-29-3	9.7E-05	I					2.5E-02	
Decabromodiphenyl Ether	1163-19-5								
Demeton	8065-48-3								
Di(2-ethylhexyl)adipate	103-23-1								
Diallylate	2303-16-4								

Table A-2 -- Residential Air RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Diazinon	333-41-5								
Dibromo-3-chloropropane, 1,2-	96-12-8	6.0E-03	P	2.0E-04	I	V	M	1.6E-04	2.1E-01
Dibromobenzene, 1,4-	106-37-6								
Dibromochloromethane	124-48-1					V			
Dibromoethane, 1,2-	106-93-4	6.0E-04	I	9.0E-03	I	V		4.1E-03	9.4E+00
Dibromomethane (Methylene Bromide)	74-95-3					V			
Dibutyl Phthalate	84-74-2								
Dibutyltin Compounds	NA								
Dicamba	1918-00-9								
Dichloro-2-butene, 1,4-	764-41-0	2.6E-03	H			V		9.4E-04	
Dichloroacetic Acid	79-43-6								
Dichlorobenzene, 1,2-	95-50-1			2.0E-01	H	V			2.1E+02
Dichlorobenzene, 1,4-	106-46-7	1.1E-05	C	8.0E-01	I	V		2.2E-01	8.3E+02
Dichlorobenzidine, 3,3'-	91-94-1								
Dichlorodifluoromethane	75-71-8			2.0E-01	H	V			2.1E+02
Dichloroethane, 1,1-	75-34-3	1.6E-06	C	5.0E-01	H	V		1.5E+00	5.2E+02
Dichloroethane, 1,2-	107-06-2	2.6E-05	I	2.4E+00	A	V		9.4E-02	2.5E+03
Dichloroethylene, 1,1-	75-35-4			2.0E-01	I	V			2.1E+02
Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0					V			
Dichloroethylene, 1,2-cis-	156-59-2					V			
Dichloroethylene, 1,2-trans-	156-60-5			6.0E-02	P	V			6.3E+01
Dichlorophenol, 2,4-	120-83-2								
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7								
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6								
Dichloropropane, 1,2-	78-87-5	1.0E-05	C	4.0E-03	I	V		2.4E-01	4.2E+00
Dichloropropane, 1,3-	142-28-9					V			
Dichloropropanol, 2,3-	616-23-9								
Dichloropropene, 1,3-	542-75-6	4.0E-06	I	2.0E-02	I	V		6.1E-01	2.1E+01
Dichlorvos	62-73-7			5.0E-04	I				5.2E-01
Dicyclopentadiene	77-73-6			7.0E-03	P	V			7.3E+00
Dieldrin	60-57-1	4.6E-03	I					5.3E-04	
Diesel Engine Exhaust	NA			5.0E-03	I				5.2E+00
Diethyl Phthalate	84-66-2								
Diethylformamide	617-84-5								
Diethylstilbestrol	56-53-1	1.0E-01	C					2.4E-05	
Difenzoquat	43222-48-6								
Diflubenzuron	35367-38-5								
Difluoroethane, 1,1-	75-37-6			4.0E+01	I	V			4.2E+04
Diisopropyl Methylphosphonate	1445-75-6					V			
Dimethipin	55290-64-7								
Dimethoate	60-51-5								
Dimethoxybenzidine, 3,3'-	119-90-4								
Dimethyl methylphosphonate	756-79-6								

Table A-2 -- Residential Air RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Dimethylaniline HCl, 2,4-	21436-96-4								
Dimethylaniline, 2,4-	95-68-1								
Dimethylaniline, N,N-	121-69-7					V			
Dimethylformamide	68-12-2			3.0E-02	I				3.1E+01
Dimethylphenol, 2,4-	105-67-9								
Dimethylphenol, 2,6-	576-26-1								
Dimethylphenol, 3,4-	95-65-8								
Dimethylterephthalate	120-61-6					V			
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5								
Dinitrobenzene, 1,2-	528-29-0								
Dinitrobenzene, 1,3-	99-65-0								
Dinitrobenzene, 1,4-	100-25-4								
Dinitrophenol, 2,4-	51-28-5								
Dinitrotoluene Mixture, 2,4/2,6-	25321-14-6								
Dinitrotoluene, 2,4-	121-14-2								
Dinitrotoluene, 2,6-	606-20-2								
Dinitrotoluene, 2-Amino-4,6-	35572-78-2								
Dinitrotoluene, 4-Amino-2,6-	19406-51-0								
Dinoseb	88-85-7								
Dioxane, 1,4-	123-91-1			3.6E+00	A				3.8E+03
Dioxins									
Hexachlorodibenzo-p-dioxin	34465-46-8	3.3E+00	W					7.4E-07	
Hexachlorodibenzo-p-dioxin, Mixture	NA	1.3E+00	I					1.9E-06	
HpCDD, 2,3,7,8-	37871-00-4	3.3E-01	W					7.4E-06	
OCDD	3268-87-9	9.9E-03	W					2.5E-04	
PeCDD, 2,3,7,8-	36088-22-9	3.3E+01	W					7.4E-08	
TCDD, 2,3,7,8-	1746-01-6	3.8E+01	C					6.4E-08	
Diphenamid	957-51-7								
Diphenylamine	122-39-4								
Diphenylhydrazine, 1,2-	122-66-7	2.2E-04	I					1.1E-02	
Diquat	85-00-7								
Direct Black 38	1937-37-7	2.1E-03	C					1.2E-03	
Direct Blue 6	2602-46-2	2.1E-03	C					1.2E-03	
Direct Brown 95	16071-86-6	1.9E-03	C					1.3E-03	
Disulfoton	298-04-4								
Dithiane, 1,4-	505-29-3								
Diuron	330-54-1								
Dodine	10/3/2439								
Endosulfan	115-29-7								
Endothall	145-73-3								
Endrin	72-20-8								
Epichlorohydrin	106-89-8	1.2E-06	I	1.0E-03	I	V		2.0E+00	1.0E+00
Epoxybutane, 1,2-	106-88-7			2.0E-02	I	V			2.1E+01

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³ -1)		(mg/m ³)				ug/m ³	ug/m ³
EPTC	759-94-4						V		
Ethephon	16672-87-0								
Ethion	563-12-2								
Ethoxyethanol Acetate, 2-	111-15-9								
Ethoxyethanol, 2-	110-80-5			2.0E-01	I				2.1E+02
Ethyl Acetate	141-78-6						V		
Ethyl Acrylate	140-88-5						V		
Ethyl Chloride	75-00-3			1.0E+01	I		V		1.0E+04
Ethyl Ether	60-29-7						V		
Ethyl Methacrylate	97-63-2						V		
Ethyl-p-nitrophenyl Phosphonate	2104-64-5								
Ethylbenzene	100-41-4	2.5E-06	C	1.0E+00	I		V	9.7E-01	1.0E+03
Ethylene Cyanohydrin	109-78-4								
Ethylene Diamine	107-15-3								
Ethylene Glycol	107-21-1			4.0E-01			C		4.2E+02
Ethylene Glycol Monobutyl Ether	111-76-2			1.3E+01	I				1.4E+04
Ethylene Oxide	75-21-8	8.8E-05	C				V	2.8E-02	
Ethylene Thiourea	96-45-7	1.3E-05	C					1.9E-01	
Ethylphthalyl Ethyl Glycolate Express	84-72-0 101200-48-0								
Fenamiphos	22224-92-6								
Fenpropathrin	39515-41-8								
Fluometuron	2164-17-2								
Fluorine (Soluble Fluoride)	7782-41-4								
Fluridone	59756-60-4								
Flurprimidol	56425-91-3								
Flutolanil	66332-96-5								
Fluvalinate	69409-94-5								
Folpet	133-07-3								
Fomesafen	72178-02-0								
Fonofos	944-22-9								
Formaldehyde	50-00-0	1.3E-05	I	9.8E-03	A			1.9E-01	1.0E+01
Formic Acid	64-18-6								
Fosetyl-AL	39148-24-8								
Furans									
Furan	110-00-9						V		
HpCDF, 2,3,7,8-	38998-75-3	3.3E-01	W					7.4E-06	
HxCDF, 2,3,7,8-	55684-94-1	3.3E+00	W					7.4E-07	
OCDF	39001-02-0	9.9E-03	W					2.5E-04	
PeCDF, 1,2,3,7,8-	57117-41-6	9.9E-01	W					2.5E-06	
PeCDF, 2,3,4,7,8-	57117-31-4	9.9E+00	W					2.5E-07	
TCDF, 2,3,7,8-	51207-31-9	3.3E+00	W					7.4E-07	
Furazolidone	67-45-8								

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Contaminant		Toxicity and Chemical-specific Information					Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1	
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Furfural	98-01-1			5.0E-02					5.2E+01
Furium	531-82-8	4.3E-04	C					5.7E-03	
Furmecycloz	60568-05-0								
Glufosinate, Ammonium	77182-82-2								
Glycidyl	765-34-4			1.0E-03		H			1.0E+00
Glyphosate	1071-83-6								
Goal	42874-03-3								
Haloxypop, Methyl	69806-40-2								
Harmony	79277-27-3								
Heptachlor	76-44-8	1.3E-03	I					1.9E-03	
Heptachlor Epoxide	1024-57-3	2.6E-03	I					9.4E-04	
Hexabromobenzene	87-82-1								
Hexachlorobenzene	118-74-1	4.6E-04	I					5.3E-03	
Hexachlorobutadiene	87-68-3	2.2E-05	I					1.1E-01	
Hexachlorocyclohexane, Alpha-	319-84-6	1.8E-03	I					1.4E-03	
Hexachlorocyclohexane, Beta-	319-85-7	5.3E-04	I					4.6E-03	
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	3.1E-04	C					7.8E-03	
Hexachlorocyclohexane, Technical	608-73-1	5.1E-04	I					4.8E-03	
Hexachlorocyclopentadiene	77-47-4			2.0E-04		I			2.1E-01
Hexachloroethane	67-72-1	4.0E-06	I					6.1E-01	
Hexachlorophene	70-30-4								
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4								
Hexamethylene Diisocyanate, 1,6-	822-06-0			1.0E-05		I V			1.0E-02
Hexane, N-	110-54-3			7.0E-01		I V			7.3E+02
Hexanedioic Acid	124-04-9								
Hexazinone	51235-04-2								
Hydrazine	302-01-2	4.9E-03	I	2.0E-04		C		5.0E-04	2.1E-01
Hydrazine Sulfate	10034-93-2	4.9E-03	I					5.0E-04	
Hydrogen Chloride	7647-01-0			2.0E-02		I			2.1E+01
Hydrogen Sulfide	64/7783			2.0E-03		I			2.1E+00
Imazalil	35554-44-0								
Imazaquin	81335-37-7								
Iprodione	36734-19-7								
Iron	7439-89-6								
Isobutyl Alcohol	78-83-1								
Isophorone	78-59-1			2.0E+00		C			2.1E+03
Isopropalin	33820-53-0								
Isopropyl Methyl Phosphonic Acid	1832-54-8								
Isoxaben	82558-50-7								
Kerb	23950-58-5								
Lactofen	77501-63-4								
Lead Compounds									
Lead and Compounds	7439-92-1								

Table A-2 -- Residential Air RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³ -1)		(mg/m ³)				ug/m ³	ug/m ³
Tetraethyl Lead	78-00-2								
Linuron	330-55-2								
Lithium Perchlorate	3/9/7791								
Londax	83055-99-6								
Malathion	121-75-5								
Maleic Anhydride	108-31-6			7.0E-04	C				7.3E-01
Maleic Hydrazide	123-33-1								
Malononitrile	109-77-3								
Mancozeb	1/7/8018								
Maneb	12427-38-2								
Manganese (Water)	7439-96-5			5.0E-05	I				5.2E-02
MCPA	94-74-6								
MCPB	94-81-5								
MCPP	93-65-2								
Mephosfolan	950-10-7								
Mepiquat Chloride	24307-26-4								
Mercury Compounds									
Mercuric Chloride	7487-94-7								
Mercuric Sulfide	1344-48-5								
Mercury (elemental)	7439-97-6			3.0E-04	I	V			3.1E-01
Mercury, Inorganic Salts	NA								
Methyl Mercury	22967-92-6								
Phenylmercuric Acetate	62-38-4								
Merphos	150-50-5								
Merphos Oxide	78-48-8								
Metalaxyl	57837-19-1								
Methacrylonitrile	126-98-7			7.0E-04	H	V			7.3E-01
Methamidophos	10265-92-6								
Methanol	67-56-1			4.0E+00	C				4.2E+03
Methidathion	950-37-8								
Methomyl	16752-77-5								
Methoxy-5-nitroaniline, 2-	99-59-2	1.4E-05	C				1.7E-01		
Methoxychlor	72-43-5								
Methoxyethanol Acetate, 2-	110-49-6								
Methoxyethanol, 2-	109-86-4			2.0E-02	I				2.1E+01
Methyl Acetate	79-20-9					V			
Methyl Acrylate	96-33-3					V			
Methyl Ethyl Ketone (2-Butanone)	78-93-3			5.0E+00	I	V			5.2E+03
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1			3.0E+00	I	V			3.1E+03
Methyl Methacrylate	80-62-6			7.0E-01	I	V			7.3E+02
Methyl Parathion	298-00-0								
Methyl Styrene (Mixed Isomers)	25013-15-4			4.0E-02	H	V			4.2E+01
Methyl tert-Butyl Ether (MTBE)	1634-04-4	2.6E-07	C	3.0E+00	I	V	9.4E+00		3.1E+03

Table A-2 -- Residential Air RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Methyl-5-Nitroaniline, 2-	99-55-8								
Methylaniline Hydrochloride, 2-	636-21-5	3.7E-05	C					6.6E-02	
Methylarsonic acid	124-58-3					A			
Methylcyclohexane	108-87-2			3.0E+00		H V			3.1E+03
Methylene Chloride	75-09-2	4.7E-07	I	1.1E+00		A V		5.2E+00	1.1E+03
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	4.3E-10	C				M	2.2E+03	
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1								
Methylenebisbenzenamine, 4,4'-	101-77-9	4.6E-04	C					5.3E-03	
Methylenediphenyl Diisocyanate	101-68-8			6.0E-04		I			6.3E-01
Methylstyrene, Alpha-	98-83-9					V			
Metolachlor	51218-45-2								
Metribuzin	21087-64-9								
Mirex	2385-85-5	5.1E-03	C					4.8E-04	
Molinate	2212-67-1								
Molybdenum	7439-98-7								
Monochloramine	10599-90-3								
Monochlorobutanes	25154-42-1								
Monomethylaniline	100-61-8								
N,N'-Diphenyl-1,4-benzenediamine	74-31-7								
Naled	300-76-5								
Napropamide	15299-99-7								
Nickel Refinery Dust	NA	2.4E-04	I					1.0E-02	
Nickel Soluble Salts	7440-02-0								
Nickel Sub sulfide	12035-72-2	4.8E-04	I					5.1E-03	
Nitrate	14797-55-8								
Nitrite	14797-65-0								
Nitrobenzene	98-95-3			2.0E-03		H V			2.1E+00
Nitrofurantoin	67-20-9								
Nitrofurazone	59-87-0	3.7E-04	C					6.6E-03	
Nitroglycerin	55-63-0								
Nitroguanidine	556-88-7								
Nitromethane	75-52-5	9.0E-06	P	2.0E-02		P V		2.7E-01	2.1E+01
Nitropropane, 2-	79-46-9	2.7E-03	H	2.0E-02		I V		9.0E-04	2.1E+01
Nitroso-di-N-butylamine, N-	924-16-3	1.6E-03	I			V		1.5E-03	
Nitroso-di-N-propylamine, N-	621-64-7								
Nitroso-N-ethylurea, N-	759-73-9	7.7E-03	C				M	1.2E-04	
Nitrosodiethanolamine, N-	1116-54-7								
Nitrosodiethylamine, N-	55-18-5	4.3E-02	I				M	2.2E-05	
Nitrosodimethylamine, N-	62-75-9	1.4E-02	I				M	6.9E-05	
Nitrosodiphenylamine, N-	86-30-6								
Nitrosomethylethylamine, N-	10595-95-6								
Nitrosopyrrolidine, N-	930-55-2	6.1E-04	I					4.0E-03	
Nitrotoluene, o-	88-72-2					V			

Table A-2 -- Residential Air RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³ -1)		(mg/m ³)				ug/m ³	ug/m ³
Nitrotoluene, p-	99-99-0								
Norflurazon	27314-13-2								
Nustar	85509-19-9								
Octabromodiphenyl Ether	32536-52-0								
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	2691-41-0								
Octamethylpyrophosphoramidate	152-16-9								
Oryzalin	19044-88-3								
Oxadiazon	19666-30-9								
Oxamyl	23135-22-0								
Paclobutrazol	76738-62-0								
Polynuclear Aromatic Hydrocarbons (PAHs)									
Acenaphthene	83-32-9					V			
Anthracene	120-12-7					V			
Benz[a]anthracene	56-55-3	1.1E-04	C				M	8.7E-03	
Benzo[a]pyrene	50-32-8	1.1E-03	C				M	8.7E-04	
Benzo[b]fluoranthene	205-99-2	1.1E-04	C				M	8.7E-03	
Benzo[k]fluoranthene	207-08-9	1.1E-04	C				M	8.7E-03	
Chrysene	218-01-9	1.1E-05	C				M	8.7E-02	
Dibenz[a,h]anthracene	53-70-3	1.2E-03	C				M	8.0E-04	
Fluoranthene	206-44-0								
Fluorene	86-73-7					V			
Indeno[1,2,3-cd]pyrene	193-39-5	1.1E-04	C				M	8.7E-03	
Methylnaphthalene, 1-	90-12-0						V		
Methylnaphthalene, 2-	91-57-6						V		
Naphthalene	91-20-3	3.4E-05	C	3.0E-03	I	V		7.2E-02	3.1E+00
Pyrene	129-00-0						V		
Paraquat Dichloride	1910-42-5								
Parathion	56-38-2								
Polychlorinated Biphenyls (PCBs)									
Aroclor 1016	12674-11-2	2.0E-05	I					1.2E-01	
Aroclor 1221	11104-28-2	5.7E-04	I				V	4.3E-03	
Aroclor 1232	11141-16-5	5.7E-04	I				V	4.3E-03	
Aroclor 1242	53469-21-9	5.7E-04	I					4.3E-03	
Aroclor 1248	12672-29-6	5.7E-04	I					4.3E-03	
Aroclor 1254	11097-69-1	5.7E-04	I					4.3E-03	
Aroclor 1260	11096-82-5	5.7E-04	I					4.3E-03	
Heptachlorobiphenyl, 2,2',3,3',4,4',5-	35065-30-6	3.3E-03	W					7.4E-04	
Heptachlorobiphenyl, 2,2',3,4,4',5,5'-	35065-29-3	3.3E-04	W					7.4E-03	
Heptachlorobiphenyl, 2,3,3',4,4',5,5'-	39635-31-9	9.9E-04	W					2.5E-03	
Hexachlorobiphenyl, 2,3',4,4',5,5'-	52663-72-6	9.9E-04	W					2.5E-03	
Hexachlorobiphenyl, 2,3,3',4,4',5'-	69782-90-7	9.9E-04	W					2.5E-03	
Hexachlorobiphenyl, 2,3,3',4,4',5'-	38380-08-4	9.9E-04	W					2.5E-03	
Hexachlorobiphenyl, 3,3',4,4',5,5'-	32774-16-6	9.9E-01	W					2.5E-06	

Table A-2 -- Residential Air RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V = volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information					Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1	
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	9.9E-04	W					2.5E-03	
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	9.9E-04	W					2.5E-03	
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	9.9E-04	W					2.5E-03	
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	9.9E-04	W					2.5E-03	
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	3.3E+00	W					7.4E-07	
Polychlorinated Biphenyls (high risk)	1336-36-3	5.7E-04	C					4.3E-03	
Polychlorinated Biphenyls (low risk)	1336-36-3	1.0E-04	I					2.4E-02	
Polychlorinated Biphenyls (lowest risk)	1336-36-3								
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	3.3E-03	W					7.4E-04	
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	9.9E-03	W					2.5E-04	
Pebulate	1114-71-2								
Pendimethalin	40487-42-1								
Pentabromodiphenyl Ether	32534-81-9								
Pentachlorobenzene	608-93-5								
Pentachloronitrobenzene	82-68-8								
Pentachlorophenol	87-86-5								
Perchlorate and Perchlorate Salts	14797-73-0								
Permethrin	52645-53-1								
Phenmedipham	13684-63-4								
Phenol	108-95-2			2.0E-01	C				2.1E+02
Phenylenediamine, m-	108-45-2								
Phenylenediamine, o-	95-54-5								
Phenylenediamine, p-	106-50-3								
Phenylphenol, 2-	90-43-7								
Phorate	298-02-2								
Phosgene	75-44-5			3.0E-04	I	V			3.1E-01
Phosmet	732-11-6								
Phosphine	7803-51-2			3.0E-04	I				3.1E-01
Phosphoric Acid	7664-38-2			1.0E-02	I				1.0E+01
Phosphorus, White	7723-14-0								
Phthalic Acid, P-	100-21-0								
Phthalic Anhydride	85-44-9			2.0E-02	C				2.1E+01
Picloram	2/1/1918								
Pirimiphos, Methyl	29232-93-7								
Polybrominated Biphenyls	59536-65-1	8.6E-03	C					2.8E-04	
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9			6.0E-04	I				6.3E-01
Potassium Perchlorate	7778-74-7								
Prochloraz	67747-09-5								
Profluralin	26399-36-0								
Prometon	1610-18-0								
Prometryn	7287-19-6								
Propachlor	1918-16-7								
Propanil	709-98-8								

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Propargite	2312-35-8								
Propargyl Alcohol	107-19-7								
Propazine	139-40-2								
Propham	122-42-9								
Propiconazole	60207-90-1								
Propylene Glycol	57-55-6								
Propylene Glycol Dinitrate	6423-43-4			2.7E-04	A	V			2.8E-01
Propylene Glycol Monoethyl Ether	1569-02-4								
Propylene Glycol Monomethyl Ether	107-98-2			2.0E+00	I				2.1E+03
Propylene Oxide	75-56-9	3.7E-06	I	3.0E-02	I	V	6.6E-01		3.1E+01
Pursuit	81335-77-5								
Pydrin	51630-58-1								
Pyridine	110-86-1					V			
Quinalphos	13593-03-8								
Quinoline	91-22-5								
Refractory Ceramic Fibers	NA			3.0E-02	A				3.1E+01
Resmethrin	10453-86-8								
Ronnel	299-84-3								
Rotenone	83-79-4								
Savey	78587-05-0								
Selenious Acid	7783-00-8								
Selenium	7782-49-2								
Selenourea	630-10-4								
Sethoxydim	74051-80-2								
Silver	7440-22-4								
Simazine	122-34-9								
Sodium Acifluorfen	62476-59-9								
Sodium Azide	26628-22-8								
Sodium Diethyldithiocarbamate	148-18-5								
Sodium Fluoroacetate	62-74-8								
Sodium Metavanadate	13718-26-8								
Sodium Perchlorate	7601-89-0								
Stirofos (Tetrachlorovinphos)	961-11-5								
Strontium, Stable	7440-24-6								
Strychnine	57-24-9								
Styrene	100-42-5			1.0E+00	I	V			1.0E+03
Systhane	88671-89-0								
TCMTB	21564-17-0								
Tebuthiuron	34014-18-1								
Temephos	3383-96-8								
Terbacil	5902-51-2								
Terbufos	13071-79-9								
Terbutryn	886-50-0								

Table A-2 -- Residential Air RSLs

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Tetrachlorobenzene, 1,2,4,5-	95-94-3								
Tetrachloroethane, 1,1,1,2-	630-20-6	7.4E-06	I			V		3.3E-01	
Tetrachloroethane, 1,1,2,2-	79-34-5	5.8E-05	I			V		4.2E-02	
Tetrachloroethylene	127-18-4	5.9E-06	C	2.7E-01	A	V		4.1E-01	2.8E+02
Tetrachlorophenol, 2,3,4,6-	58-90-2								
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1								
Tetraethyl Dithiopyrophosphate	3689-24-5								
Tetrafluoroethane, 1,1,1,2-	811-97-2			8.0E+01	I	V			8.3E+04
Tetryl (TrinitrophenylmethylNitramine)	479-45-8								
Thallium (I) Nitrate	10102-45-1								
Thallium (Soluble Salts)	7440-28-0								
Thallium Acetate	563-68-8								
Thallium Carbonate	6533-73-9								
Thallium Chloride	7791-12-0								
Thallium Sulfate	7446-18-6								
Thiobencarb	28249-77-6								
Thiofanox	39196-18-4								
Thiophanate, Methyl	23564-05-8								
Thiram	137-26-8								
Tin	7440-31-5								
Toluene	108-88-3			5.0E+00	I	V			5.2E+03
Toluene diisocyanate mixture (TDI)	26471-62-5			7.0E-05	I	V			7.3E-02
Toluene-2,4-diamine	95-80-7	1.1E-03	C					2.2E-03	
Toluene-2,5-diamine	95-70-5								
Toluene-2,6-diamine	823-40-5								
Toluidine, o- (Methylaniline, 2-)	95-53-4	5.1E-05	C					4.8E-02	
Toluidine, p-	106-49-0								
Toxaphene	8001-35-2	3.2E-04	I					7.6E-03	
Tralometrin	66841-25-6								
Triallate	2303-17-5								
Triasulfuron	82097-50-5								
Tribromobenzene, 1,2,4-	615-54-3								
Tributyltin Compounds	NA								
Tributyltin Oxide	56-35-9								
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1			3.0E+01	H	V			3.1E+04
Trichloroaniline HCl, 2,4,6-	33663-50-2								
Trichloroaniline, 2,4,6-	634-93-5								
Trichlorobenzene, 1,2,4-	120-82-1					V			
Trichloroethane, 1,1,1-	71-55-6			5.0E+00	I	V			5.2E+03
Trichloroethane, 1,1,2-	79-00-5	1.6E-05	I			V		1.5E-01	
Trichloroethylene	79-01-6	2.0E-06	C			V		1.2E+00	
Trichlorofluoromethane	75-69-4			7.0E-01	H	V			7.3E+02
Trichlorophenol, 2,4,5-	95-95-4								

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Contaminant		Toxicity and Chemical-specific Information						Carcinogenic Target Risk (TR) = 1E-06	Noncancer Hazard Index (HI) = 1
Analyte	CAS No.	IUR	key	RfCi	key	voc	mutagen	Inhalation	Inhalation
		(ug/m ³) ⁻¹		(mg/m ³)				ug/m ³	ug/m ³
Trichlorophenol, 2,4,6-Trichlorophenoxy) Propionic Acid, 2(2,4,5-Trichlorophenoxyacetic Acid, 2,4,5-	88-06-2 93-72-1 93-76-5	3.1E-06	I					7.8E-01	
Trichloropropane, 1,1,2-Trichloropropane, 1,2,3-Tridiphane	598-77-6 96-18-4 58138-08-2					V V			
Triethylamine Trifluralin Trimethyl Phosphate	121-44-8 1582-09-8 512-56-1			7.0E-03	I	V			7.3E+00
Trimethylbenzene, 1,2,4-Trinitrobenzene, 1,3,5-Trinitrotoluene, 2,4,6-	95-63-6 99-35-4 118-96-7			7.0E-03	P	V			7.3E+00
Tri-n-butyltin Uranium (Soluble Salts) Vanadium Pentoxide	688-73-3 NA 1314-62-1								
Vanadium Sulfate Vanadium and Compounds Vanadium, Metallic	36907-42-3 NA 7440-62-2								
Vanadyl Sulfate Vernolate Vinclozolin	27774-13-6 1929-77-7 50471-44-8								
Vinyl Acetate Vinyl Bromide Vinyl Chloride	108-05-4 593-60-2 75-01-4			2.0E-01 3.0E-03 1.0E-01	I I I	V V V	M	1.6E-01	2.1E+02 3.1E+00 1.0E+02
Warfarin Xylene, Mixture Xylene, P-	81-81-2 1330-20-7 106-42-3			1.0E-01 7.0E-01	I C	V V			1.0E+02 7.3E+02
Xylene, m- Xylene, o- Zinc (Metallic)	108-38-3 95-47-6 7440-66-6			7.0E-01 7.0E-01	C C	V V			7.3E+02 7.3E+02
Zinc Phosphide Zineb	1314-84-7 12122-67-7								

Table A-3 -- Residential Tap Water RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL		
Analyte	CAS No.	SFO	k	IUR	k	RfDo	k	RfCi	k	v	o	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	ug/L	
		(mg/kg-day) ⁻¹	e	(ug/m ³) ⁻¹	e	(mg/kg-day)	e	(mg/m ³)	e	y	c		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
Acephate	30560-19-1	8.7E-03	I			4.0E-03	I						7.7E+00		7.7E+00	1.5E+02		1.5E+02		
Acetaldehyde	75-07-0			2.2E-06	I			9.0E-03	I	V				2.2E+00	2.2E+00		1.9E+01	1.9E+01		
Acetochlor	34256-82-1					2.0E-02	I									7.3E+02		7.3E+02		
Acetone	67-64-1					9.0E-01	I	3.1E+01	A	V						3.3E+04	6.4E+04	2.2E+04		
Acetone Cyanohydrin	75-86-5					3.0E-03	P	6.0E-02	P	V						1.1E+02	1.3E+02	5.8E+01		
Acetonitrile	75-05-8					6.0E-02	I	6.0E-02	I	V						1.3E+02		1.3E+02		
Acetophenone	98-86-2					1.0E-01	I			V						3.7E+03		3.7E+03		
Acrolein	107-02-8					5.0E-04	I	2.0E-05	I	V						1.8E+01	4.2E-02	4.2E-02		
Acrylamide	79-06-1	4.5E+00	I	1.3E-03	I	2.0E-04	I						1.5E-02		1.5E-02	7.3E+00		7.3E+00		
Acrylic Acid	79-10-7					5.0E-01	I	1.0E-03	I							1.8E+04		1.8E+04		
Acrylonitrile	107-13-1	5.4E-01	I	6.8E-05	I	1.0E-03	H	2.0E-03	I	V			1.2E-01	7.2E-02	4.5E-02	3.7E+01	4.2E+00	3.7E+00		
Adiponitrile	111-69-3					6.0E-03	P									6.0E+03		6.0E+03		
Alachlor	15972-60-8	5.6E-02	C			1.0E-02	I						1.2E+00		1.2E+00	3.7E+02		3.7E+02	2.0E+00	
ALAR	1596-84-5					1.5E-01	I									5.5E+03		5.5E+03		
Aldicarb	116-06-3					1.0E-03	I									3.7E+01		3.7E+01		
Aldicarb Sulfone	1646-88-4					1.0E-03	I									3.7E+01		3.7E+01		
Aldrin	309-00-2	1.7E+01	I	4.9E-03	I	3.0E-05	I						4.0E-03		4.0E-03	1.1E+00		1.1E+00		
Allyl	74223-64-6					2.5E-01	I									9.1E+03		9.1E+03		
Allyl Alcohol	107-18-6					5.0E-03	I	3.0E-04	P							1.8E+02		1.8E+02		
Allyl Chloride	107-05-1					1.0E-03	I	1.0E-03	I	V						2.1E+00		2.1E+00		
Aluminum	7429-90-5					1.0E+00	P	5.0E-03	P							3.7E+04		3.7E+04		
Aluminum Phosphide	20859-73-8					4.0E-04	I									1.5E+01		1.5E+01		
Amdro	67485-29-4					3.0E-04	I									1.1E+01		1.1E+01		
Ametryn	834-12-8					9.0E-03	I									3.3E+02		3.3E+02		
Aminophenol, m-	591-27-5					8.0E-02	P									2.9E+03		2.9E+03		
Aminophenol, p-	123-30-8					2.0E-02	P									7.3E+02		7.3E+02		
Aminopyridine, 4-	504-24-5					2.0E-05	H									7.3E-01		7.3E-01		
Amitraz	33089-61-1					2.5E-03	I									9.1E+01		9.1E+01		
Ammonia	7664-41-7						H	1.0E-01	I											
Ammonium Perchlorate	7790-98-9					7.0E-04	I									2.6E+01		2.6E+01		
Ammonium Sulfamate	7773-06-0					2.0E-01	I									7.3E+03		7.3E+03		
Aniline	62-53-3	5.7E-03	I			7.0E-03	P	1.0E-03	I				1.2E+01		1.2E+01	2.6E+02		2.6E+02		
Antimony (metallic)	7440-36-0					4.0E-04	I									1.5E+01		1.5E+01	6.0E+00	
Antimony Pentoxide	1314-60-9					5.0E-04	H									1.8E+01		1.8E+01		
Antimony Potassium Tartrate	304-61-0					9.0E-04	H									3.3E+01		3.3E+01		
Antimony Tetroxide	1332-81-6					4.0E-04	H									1.5E+01		1.5E+01		
Antimony Trioxide	1309-64-4					4.0E-04	H	2.0E-04	I							1.5E+01		1.5E+01		
Apollo	74115-24-5					1.3E-02	I									4.7E+02		4.7E+02		
Aramite	140-57-8	2.5E-02	I	7.1E-06	I	5.0E-02	H						2.7E+00		2.7E+00	1.8E+03		1.8E+03		
Arsenic, Inorganic	7440-38-2	1.5E+00	I	4.3E-03	I	3.0E-04	I	3.0E-05	C				4.5E-02		4.5E-02	1.1E+01		1.1E+01	1.0E+01	
Arsine	7784-42-1							5.0E-05	I							3.3E+02		3.3E+02		
Assure	76578-14-8					9.0E-03	I									3.3E+02		3.3E+02		
Asulam	3337-71-1					5.0E-02	I									1.8E+03		1.8E+03		
Atrazine	1912-24-9	2.3E-01	C			3.5E-02	I						2.9E-01		2.9E-01	1.3E+03		1.3E+03	3.0E+00	
Avermectin B1	65195-55-3					4.0E-04	I									1.5E+01		1.5E+01		
Azobenzene	103-33-3	1.1E-01	I	3.1E-05	I					V			6.1E-01	1.6E-01	1.2E-01					
Barium	7440-39-3					2.0E-01	I	5.0E-04	H							7.3E+03		7.3E+03	2.0E+03	
Baygon	114-26-1					4.0E-03	I									1.5E+02		1.5E+02		
Bayleton	43121-43-3					3.0E-02	I									1.1E+03		1.1E+03		
Baythroid	68359-37-5					2.5E-02	I									9.1E+02		9.1E+02		

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Contaminant	CAS No.	Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL	
		SFO	k _e	IUR	k _e	RfDo	k _e	RfCi	k _e	v	o	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation		Total
Analyte	CAS No.	(mg/kg-day) ⁻¹	(ug/m ³) ⁻¹	(mg/kg-day)	(mg/m ³)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Benefin	1861-40-1				3.0E-01	I											1.1E+04	1.1E+04	
Benomyl	17804-35-2				5.0E-02	I											1.8E+03	1.8E+03	
Bentazon	25057-89-0				3.0E-02	I											1.1E+03	1.1E+03	
Benzaldehyde	100-52-7				1.0E-01	I					V						3.7E+03	3.7E+03	
Benzene	71-43-2	5.5E-02	I	7.8E-06	I	4.0E-03	I	3.0E-02	I	V		1.2E+00	6.2E-01	4.1E-01	1.5E+02	6.3E+01	4.4E+01	5.0E+00	
Benzenethiol	108-98-5				1.0E-05	H				V							3.7E-01	3.7E-01	
Benzydine	92-87-5	2.3E+02	I	6.7E-02	I	3.0E-03	I				M	9.4E-05		9.4E-05	1.1E+02		1.1E+02		
Benzoic Acid	65-85-0				4.0E+00	I											1.5E+05	1.5E+05	
Benzoic Acid	98-07-7	1.3E+01	I							V		5.2E-03		5.2E-03					
Benzyl Alcohol	100-51-6				5.0E-01	P											1.8E+04	1.8E+04	
Benzyl Chloride	100-44-7	1.7E-01	I							V		4.0E-01		4.0E-01					
Beryllium and compounds	7440-41-7		2.4E-03	I	2.0E-03	I	2.0E-05	I									7.3E+01	7.3E+01	
Bidrin	141-66-2				1.0E-04	I											3.7E+00	3.7E+00	
Bifenox	42576-02-3				9.0E-03	P											3.3E+02	3.3E+02	
Biphenthrin	82657-04-3				1.5E-02	I											5.5E+02	5.5E+02	
Biphenyl, 1,1'	92-52-4				5.0E-02	I				V							1.8E+03	1.8E+03	
Bis(2-chloroethoxy)methane	111-91-1				3.0E-03	P											1.1E+02	1.1E+02	
Bis(2-chloroethyl)ether	111-44-4	1.1E+00	I	3.3E-04	I					V		6.1E-02	1.5E-02	1.2E-02					
Bis(2-chloro-1-methylethyl) ether	108-60-1	7.0E-02	H	1.0E-05	H	4.0E-02	I			V		9.6E-01	4.9E-01	3.2E-01	1.5E+03		1.5E+03		
Bis(2-ethylhexyl)phthalate	117-81-7	1.4E-02	I		2.0E-02	I						4.8E+00		4.8E+00	7.3E+02		7.3E+02	6.0E+00	
Bis(chloromethyl)ether	542-88-1	2.2E+02	I	6.2E-02	I					V		3.1E-04	7.8E-05	6.2E-05					
Bisphenol A	80-05-7				5.0E-02	I											1.8E+03	1.8E+03	
Boron And Borates Only	7440-42-8				2.0E-01	I	2.0E-02	H									7.3E+03	7.3E+03	
Boron Trifluoride	7/2/7637						7.0E-04	H											
Bromate	15541-45-4	7.0E-01	I		4.0E-03	I						9.6E-02		9.6E-02	1.5E+02		1.5E+02	1.0E+01	
Bromodichloromethane	75-27-4	6.2E-02	I		2.0E-02	I				V		1.1E+00		1.1E+00	7.3E+02		7.3E+02		
Bromoform	75-25-2	7.9E-03	I	1.1E-06	I	2.0E-02	I					8.5E+00		8.5E+00	7.3E+02		7.3E+02		
Bromomethane	74-83-9				1.4E-03	I	5.0E-03	I	V								5.1E+01	1.0E+01	8.7E+00
Bromophos	2104-96-3				5.0E-03	H											1.8E+02	1.8E+02	
Bromoxynil	1689-84-5				2.0E-02	I											7.3E+02	7.3E+02	
Bromoxynil Octanoate	1689-99-2				2.0E-02	I											7.3E+02	7.3E+02	
Butadiene, 1,3-	106-99-0		3.0E-05	I			2.0E-03	I	V				1.6E-01	1.6E-01		4.2E+00	4.2E+00		
Butanol, N-	71-36-3				1.0E-01	I											3.7E+03	3.7E+03	
Butyl Benzyl Phthlate	85-68-7				2.0E-01	I											7.3E+03	7.3E+03	
Butylate	2008-41-5				5.0E-02	I											1.8E+03	1.8E+03	
Butylphthalyl Butylglycolate	85-70-1				1.0E+00	I											3.7E+04	3.7E+04	
Cacodylic Acid	75-60-5				2.0E-02	A											7.3E+02	7.3E+02	
Cadmium (Water)	7440-43-9		1.8E-03	I	5.0E-04	I											1.8E+01	1.8E+01	5.0E+00
Caprolactam	105-60-2				5.0E-01	I											1.8E+04	1.8E+04	
Captafol	6/1/2425	1.5E-01	C	4.3E-05	C	2.0E-03	I					4.5E-01		4.5E-01	7.3E+01		7.3E+01		
Captan	133-06-2	2.3E-03	C	6.6E-07	C	1.3E-01	I					2.9E+01		2.9E+01	4.7E+03		4.7E+03		
Carbaryl	63-25-2				1.0E-01	I											3.7E+03	3.7E+03	
Carbazole	86-74-8	2.0E-02	H									3.4E+00		3.4E+00					
Carbofuran	1563-66-2				5.0E-03	I											1.8E+02	1.8E+02	4.0E+01
Carbon Disulfide	75-15-0				1.0E-01	I	7.0E-01	I	V								3.7E+03	1.50E+03	1.00E+03
Carbon Tetrachloride	56-23-5	1.3E-01	I	1.5E-05	I	7.0E-04	I	1.9E-01	A	V		5.2E-01	3.2E-01	2.0E-01	2.6E+01	3.9E+02	2.4E+01	5.0E+00	
Carbosulfan	55285-14-8				1.0E-02	I											3.7E+02	3.7E+02	
Carboxin	5234-68-4				1.0E-01	I											3.7E+03	3.7E+03	
Chloral Hydrate	302-17-0				1.0E-01	I											3.7E+03	3.7E+03	
Chloramben	133-90-4				1.5E-02	I											5.5E+02	5.5E+02	

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Contaminant		Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL	
Analyte	CAS No.	SFO	k	IUR	k	RfDo	k	RfCl	k	v	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	ug/L	
		(mg/kg-day) ⁻¹	e	y	(ug/m ³) ⁻¹	e	y	(mg/kg-day)	e	y		(mg/m ³)	e	y	o	c	ug/L		ug/L
Chloranil	118-75-2	4.0E-01		H								1.7E-01		1.7E-01					
Chlordane	57-74-9	3.5E-01	I	1.0E-04	I	5.0E-04	I	7.0E-04	I			1.9E-01		1.9E-01	1.8E+01		1.8E+01		2.0E+00
Chlordecone (Kepone)	143-50-0	1.6E+01	C	4.6E-03	C							4.2E-03		4.2E-03					
Chlorimuron, Ethyl-Chlorine	90982-32-4 7782-50-5					2.0E-02	I	1.5E-04	A						7.3E+02		7.3E+02		
Chlorine Dioxide	10049-04-4					3.0E-02	I	2.0E-04	I						1.1E+03		1.1E+03		
Chlorite (Sodium Salt)	7758-19-2					3.0E-02	I								1.1E+03		1.1E+03		
Chloro-1,1-difluoroethane, 1-Chloro-1,3-butadiene, 2-Chloro-2-methylaniline HCl, 4-Chloro-2-methylaniline, 4-Chloroacetic Acid	75-68-3 126-99-8 3165-93-3 95-69-2 79-11-8					2.0E-02	H	7.0E-03	H V						7.3E+02	1.0E+05	1.4E+01		
Chloroacetophenone, 2-Chloroaniline, p-Chlorobenzene	532-27-4 106-47-8 108-90-7					4.0E-03	I	3.0E-05	I						1.5E+02		1.5E+02		
Chlorobenzilate	510-15-6	1.1E-01	C	3.1E-11	C	2.0E-02	I	5.0E-02	P V			6.1E-01		6.1E-01	7.3E+02	1.0E+02	9.1E+01		1.0E+02
Chlorobenzoic Acid, p-Chlorobenzotrifluoride, 4-Chlorobutane, 1-Chlorodifluoromethane	74-11-3 98-56-6 109-69-3 75-45-6					2.0E-01	H	3.0E-01	P V						7.3E+03	6.3E+02	9.3E+01		
Chloroform	67-66-3	3.1E-02	C	2.3E-05	I	1.0E-02	I	9.8E-02	A V			2.2E+00	2.1E-01	1.9E-01	3.7E+02	2.0E+02	1.3E+02		
Chloromethane	74-87-3	1.3E-02	H	1.8E-06	H			9.0E-02	I V			5.2E+00	2.7E+00	1.8E+00		1.9E+02	1.9E+02		
Chloronaphthalene, Beta-Chlorophenol, 2-Chloropropane, 2-Chloroethanol	91-58-7 95-57-8 75-29-6 1897-45-6					8.0E-02	I		V						2.9E+03	1.8E+02	2.1E+02		1.80E+02
Chloroethanol	1897-45-6	3.1E-03	C	8.9E-07	C	1.5E-02	I	1.0E-01	H V			2.2E+01		2.2E+01	5.5E+02	2.1E+02	5.5E+02		
Chlorotoluene, o-Chlorotoluene, p-Chloroprotham	95-49-8 106-43-4 101-21-3					2.0E-02	I		V						7.3E+02		7.3E+02		
Chlorpyrifos	2921-88-2					7.0E-02	P		V						2.6E+03		2.6E+03		
Chlorpyrifos Methyl	5598-13-0					2.0E-01	I								7.3E+03		7.3E+03		
Chlorsulfuron	64902-72-3					3.0E-03	I								1.1E+02		1.1E+02		
Chlorthiophos	60238-56-4					1.0E-02	H								3.7E+02		3.7E+02		
Chromium (III) (Insoluble Salts)	16065-83-1					8.0E-04	H								1.8E+03		1.8E+03		
Chromium VI (chromic acid mists)	18540-29-9					5.0E-02	I	8.0E-06	I						1.8E+03		1.8E+03		
Copper	7440-50-8					1.1E+02	H								1.1E+02		1.1E+02		
Cresol, m-Cresol, o-Cresol, p-Crotonaldehyde, trans-Cumene	108-39-4 95-48-7 106-44-5 123-73-9 98-82-8					4.0E-02	H								1.5E+03		1.5E+03		1.3E+03
Cyanazine	21725-46-2	8.4E-01	H			5.0E-02	I	4.0E-01	I V			8.0E-02		8.0E-02	3.7E+03	8.3E+02	6.8E+02		
Cyanides																			
Calcium Cyanide	592-01-8					4.0E-02	I								1.5E+03		1.5E+03		
Copper Cyanide	544-92-3					5.0E-03	I								1.8E+02		1.8E+02		
Cyanide (CN-)	57-12-5					2.0E-02	I								7.3E+02		7.3E+02		2.0E+02
Cyanogen	460-19-5					4.0E-02	I		V						1.5E+03		1.5E+03		
Cyanogen Bromide	506-68-3					9.0E-02	I		V						3.3E+03		3.3E+03		
Cyanogen Chloride	506-77-4					5.0E-02	I		V						1.8E+03		1.8E+03		
Hydrogen Cyanide	74-90-8					2.0E-02	I	3.0E-03	I V						7.3E+02	6.3E+00	6.2E+00		

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Contaminant		Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL	
Analyte	CAS No.	SFO	k	IUR	k	RfDo	k	RfCl	k	v	o	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	ug/L
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y	c	ug/L		ug/L	ug/L	ug/L	ug/L	ug/L		
Potassium Cyanide	151-50-8					5.0E-02	I									1.8E+03		1.8E+03	
Potassium Silver Cyanide	506-61-6					2.0E-01	I									7.3E+03		7.3E+03	
Silver Cyanide	506-64-9					1.0E-01	I									3.7E+03		3.7E+03	
Sodium Cyanide	143-33-9					4.0E-02	I									1.5E+03		1.5E+03	
Thiocyanate	463-56-9					2.0E-04	P				V					7.3E+00		7.3E+00	
Zinc Cyanide	557-21-1					5.0E-02	I									1.8E+03		1.8E+03	
Cyclohexane	110-82-7							6.0E+00	I	V							1.3E+04	1.3E+04	
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	2.3E-02	H										2.9E+00		2.9E+00				
Cyclohexanone	108-94-1					5.0E+00	I									1.8E+05		1.8E+05	
Cyclohexylamine	108-91-8					2.0E-01	I									7.3E+03		7.3E+03	
Cyhalothrin/karate	68085-85-8					5.0E-03	I									1.8E+02		1.8E+02	
Cypermethrin	52315-07-8					1.0E-02	I									3.7E+02		3.7E+02	
Cyromazine	66215-27-8					7.5E-03	I									2.7E+02		2.7E+02	
Dacthal	1861-32-1					1.0E-02	I									3.7E+02		3.7E+02	
Dalapon	75-99-0					3.0E-02	I									1.1E+03		1.1E+03	2.0E+02
DDD	72-54-8	2.4E-01	I										2.8E-01		2.8E-01				
DDE, p,p'-	72-55-9	3.4E-01	I										2.0E-01		2.0E-01				
DDT	50-29-3	3.4E-01	I	9.7E-05	I	5.0E-04	I						2.0E-01		2.0E-01	1.8E+01		1.8E+01	
Decabromodiphenyl Ether	1163-19-5					1.0E-02	I									3.7E+02		3.7E+02	
Demeton	8065-48-3					4.0E-05	I									1.5E+00		1.5E+00	
Di(2-ethylhexyl)adipate	103-23-1	1.2E-03	I			6.0E-01	I						5.6E+01		5.6E+01	2.2E+04		2.2E+04	4.0E+02
Diallate	2303-16-4	6.1E-02	H										1.1E+00		1.1E+00				
Diazinon	333-41-5					9.0E-04	H									3.3E+01		3.3E+01	
Dibromo-3-chloropropane, 1,2-	96-12-8	8.0E-01	P	6.0E-03	P	2.0E-04	P	2.0E-04	I	V	M		2.7E-02	3.2E-04	3.2E-04	7.3E+00	4.2E-01	3.9E-01	2.0E-01
Dibromobenzene, 1,4-	106-37-6					1.0E-02	I									3.7E+02		3.7E+02	
Dibromochloromethane	124-48-1	8.4E-02	I			2.0E-02	I				V		8.0E-01		8.0E-01	7.3E+02		7.3E+02	
Dibromoethane, 1,2-	106-93-4	2.0E+00	I	6.0E-04	I	9.0E-03	I	9.0E-03	I	V			3.4E-02	8.1E-03	6.5E-03	3.3E+02	1.9E+01	1.8E+01	5.0E-02
Dibromomethane (Methylene Bromide)	74-95-3					1.0E-02	H				V					3.7E+02		3.7E+02	
Dibutyl Phthalate	84-74-2					1.0E-01	I									3.7E+03		3.7E+03	
Dibutyltin Compounds	NA					3.0E-04	P									1.1E+01		1.1E+01	
Dicamba	1918-00-9					3.0E-02	I									1.1E+03		1.1E+03	
Dichloro-2-butene, 1,4-	764-41-0			2.6E-03	H						V					1.9E-03		1.9E-03	
Dichloroacetic Acid	79-43-6	5.0E-02	I			4.0E-03	I						1.3E+00		1.3E+00	1.5E+02		1.5E+02	
Dichlorobenzene, 1,2-	95-50-1					9.0E-02	I	2.0E-01	H	V						3.3E+03	4.2E+02	3.7E+02	6.0E+02
Dichlorobenzene, 1,4-	106-46-7	5.4E-03	C	1.1E-05	C			8.0E-01	I	V			1.2E+01	4.4E-01	4.3E-01		1.7E+03	1.7E+03	7.5E+01
Dichlorobenzidine, 3,3'-	91-94-1	4.5E-01	I										1.5E-01		1.5E-01				
Dichlorodifluoromethane	75-71-8					2.0E-01	I	2.0E-01	H	V						7.3E+03	4.2E+02	3.9E+02	
Dichloroethane, 1,1-	75-34-3	5.7E-03	C	1.6E-06	C	2.0E-01	P	5.0E-01	H	V			1.2E+01	3.0E+00	2.4E+00	7.3E+03	1.0E+03	9.1E+02	
Dichloroethane, 1,2-	107-06-2	9.1E-02	I	2.6E-05	I			2.4E+00	A	V			7.4E-01	1.9E-01	1.5E-01	5.1E+03	5.1E+03	5.1E+03	5.0E+00
Dichloroethylene, 1,1-	75-35-4					5.0E-02	I	2.0E-01	I	V						1.8E+03	4.2E+02	3.4E+02	7.0E+00
Dichloroethylene, 1,2- (Mixed Isomers)	540-59-0					9.0E-03	H			V						3.3E+02		3.3E+02	
Dichloroethylene, 1,2-cis-	156-59-2					1.0E-02	P			V						3.7E+02		3.7E+02	7.0E+01
Dichloroethylene, 1,2-trans-	156-60-5					2.0E-02	I	6.0E-02	P	V						7.3E+02	1.3E+02	1.1E+02	1.0E+02
Dichlorophenol, 2,4-	120-83-2					3.0E-03	I									1.1E+02		1.1E+02	
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7					1.0E-02	I									3.7E+02		3.7E+02	7.0E+01
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6					8.0E-03	I									2.9E+02		2.9E+02	
Dichloropropane, 1,2-	78-87-5	3.6E-02	C	1.0E-05	C			4.0E-03	I	V			1.9E+00	4.9E-01	3.9E-01		8.3E+00	8.3E+00	5.0E+00
Dichloropropane, 1,3-	142-28-9					2.0E-02	P			V						7.3E+02		7.3E+02	
Dichloropropanol, 2,3-	616-23-9					3.0E-03	I									1.1E+02		1.1E+02	
Dichloropropene, 1,3-	542-75-6	1.0E-01	I	4.0E-06	I	3.0E-02	I	2.0E-02	I	V			6.7E-01	1.2E+00	4.3E-01	1.1E+03	4.2E+01	4.0E+01	

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Contaminant		Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL
Analyte	CAS No.	SFO	k	IUR	k	RfDo	k	RfCl	k	v	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	ug/L
		(mg/kg-day) ⁻¹	e	(ug/m ³) ⁻¹	e	(mg/kg-day)	e	(mg/m ³)	e	o		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Dichlorvos	62-73-7	2.9E-01	I			5.0E-04	I	5.0E-04	I			2.3E-01		2.3E-01	1.8E+01		1.8E+01	
Dicyclopentadiene	77-73-6					8.0E-03	P	7.0E-03	P	V					2.9E+02	1.5E+01	1.4E+01	
Dieldrin	60-57-1	1.6E+01	I	4.6E-03	I			5.0E-05	I			4.2E-03		4.2E-03	1.8E+00		1.8E+00	
Diethyl Phthalate	84-66-2					8.0E-01	I								2.9E+04		2.9E+04	
Diethylformamide	617-84-5					1.0E-03	P								3.7E+01		3.7E+01	
Diethylstilbestrol	56-53-1	3.5E+02	C	1.0E-01	C							1.9E-04		1.9E-04				
Difenzoquat	43222-48-6					8.0E-02	I								2.9E+03		2.9E+03	
Diflubenzuron	35367-38-5					2.0E-02	I								7.3E+02		7.3E+02	
Diffluoroethane, 1,1-	75-37-6							4.0E+01	I	V						8.3E+04	8.3E+04	
Diisopropyl Methylphosphonate	1445-75-6					8.0E-02	I								2.9E+03		2.9E+03	
Dimethipin	55290-64-7					2.0E-02	I								7.3E+02		7.3E+02	
Dimethoate	60-51-5					2.0E-04	I								7.3E+00		7.3E+00	
Dimethoxybenzidine, 3,3'-	119-90-4	1.4E-02	H									4.8E+00		4.8E+00				
Dimethyl methylphosphonate	756-79-6	1.7E-03	P			6.0E-02	P					4.0E+01		4.0E+01	2.2E+03		2.2E+03	
Dimethylaniline HCl, 2,4-	21436-96-4	5.8E-01	H									1.2E-01		1.2E-01				
Dimethylaniline, 2,4-	95-68-1	7.5E-01	H									9.0E-02		9.0E-02				
Dimethylaniline, N,N-	121-69-7					2.0E-03	I				V				7.3E+01		7.3E+01	
Dimethylformamide	68-12-2					1.0E-01	P	3.0E-02	I						3.7E+03		3.7E+03	
Dimethylphenol, 2,4-	105-67-9					2.0E-02	I								7.3E+02		7.3E+02	
Dimethylphenol, 2,6-	576-26-1					6.0E-04	I								2.2E+01		2.2E+01	
Dimethylphenol, 3,4-	95-65-8					1.0E-03	I								3.7E+01		3.7E+01	
Dimethylterephthalate	120-61-6					1.0E-01	I				V				3.7E+03		3.7E+03	
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5					2.0E-03	I								7.3E+01		7.3E+01	
Dinitrobenzene, 1,2-	528-29-0					1.0E-04	P								3.7E+00		3.7E+00	
Dinitrobenzene, 1,3-	99-65-0					1.0E-04	I								3.7E+00		3.7E+00	
Dinitrobenzene, 1,4-	100-25-4					1.0E-04	P								3.7E+00		3.7E+00	
Dinitrophenol, 2,4-	51-28-5					2.0E-03	I								7.3E+01		7.3E+01	
Dinitrotoluene Mixture, 2,4/2,6-	25321-14-6	6.8E-01	I			2.0E-03	H					9.9E-02		9.9E-02	7.3E+01		7.3E+01	
Dinitrotoluene, 2,4-	121-14-2					2.0E-03	I								7.3E+01		7.3E+01	
Dinitrotoluene, 2,6-	606-20-2					1.0E-03	P								3.7E+01		3.7E+01	
Dinitrotoluene, 2-Amino-4,6-	35572-78-2					2.0E-03	S								7.3E+01		7.3E+01	
Dinitrotoluene, 4-Amino-2,6-	19406-51-0					2.0E-03	S								7.3E+01		7.3E+01	
Dinoseb	88-85-7					1.0E-03	I								3.7E+01		3.7E+01	
Dioxane, 1,4-	123-91-1	1.1E-02	I					3.6E+00	A			6.1E+00		6.1E+00				7.0E+00
Dioxins																		
Hexachlorodibenzo-p-dioxin	34465-46-8	1.5E+04	W	3.3E+00	W							4.5E-06		4.5E-06				
Hexachlorodibenzo-p-dioxin, Mixture	NA	6.2E+03	I	1.3E+00	I							1.1E-05		1.1E-05				
HpCDD, 2,3,7,8-	37871-00-4	1.5E+03	W	3.3E-01	W							4.5E-05		4.5E-05				
OCDD	3268-87-9	4.5E+01	W	9.9E-03	W							1.5E-03		1.5E-03				
PeCDD, 2,3,7,8-	36088-22-9	1.5E+05	W	3.3E+01	W							4.5E-07		4.5E-07				
TCDD, 2,3,7,8-	1746-01-6	1.3E+05	C	3.8E+01	C	1.0E-09	A					5.2E-07		5.2E-07	3.7E-05		3.7E-05	3.0E-05
Diphenamid	957-51-7					3.0E-02	I								1.1E+03		1.1E+03	
Diphenylamine	122-39-4					2.5E-02	I								9.1E+02		9.1E+02	
Diphenylhydrazine, 1,2-	122-66-7	8.0E-01	I	2.2E-04	I							8.4E-02		8.4E-02				
Diquat	85-00-7					2.2E-03	I								8.0E+01		8.0E+01	2.0E+01
Direct Black 38	1937-37-7	7.4E+00	C	2.1E-03	C							9.1E-03		9.1E-03				
Direct Blue 6	2602-46-2	7.4E+00	C	2.1E-03	C							9.1E-03		9.1E-03				
Direct Brown 95	16071-86-6	6.7E+00	C	1.9E-03	C							1.0E-02		1.0E-02				
Disulfoton	298-04-4					4.0E-05	I								1.5E+00		1.5E+00	
Dithiane, 1,4-	505-29-3					1.0E-02	I								3.7E+02		3.7E+02	

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Contaminant	CAS No.	Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL
		SFO	k e y	IUR	k e y	RfDo	k e y	RfCi	k e y	v o c	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	
Diuron	330-54-1					2.0E-03	I							7.3E+01		7.3E+01		
Dodine	10/3/2439					4.0E-03	I							1.5E+02		1.5E+02		
Endosulfan	115-29-7					6.0E-03	I							2.2E+02		2.2E+02		
Endothall	145-73-3					2.0E-02	I							7.3E+02		7.3E+02	1.0E+02	
Endrin	72-20-8					3.0E-04	I							1.1E+01		1.1E+01	2.0E+00	
Epichlorohydrin	106-89-8	9.9E-03	I	1.2E-06	I	6.0E-03	P	1.0E-03	I	V	6.8E+00	4.1E+00	2.5E+00	2.2E+02	2.1E+00	2.1E+00		
Epoxybutane, 1,2-	106-88-7							2.0E-02	I	V				4.2E+01	4.2E+01	4.2E+01		
EPTC	759-94-4					2.5E-02	I			V				9.1E+02	9.1E+02	9.1E+02		
Ethephon	16672-87-0					5.0E-03	I							1.8E+02	1.8E+02	1.8E+02		
Ethion	563-12-2					5.0E-04	I							1.8E+01	1.8E+01	1.8E+01		
Ethoxyethanol Acetate, 2-	111-15-9					3.0E-01	H							1.1E+04	1.1E+04	1.1E+04		
Ethoxyethanol, 2-	110-80-5					4.0E-01	H	2.0E-01	I					1.5E+04	1.5E+04	1.5E+04		
Ethyl Acetate	141-78-6					9.0E-01	I			V				3.3E+04	3.3E+04	3.3E+04		
Ethyl Acrylate	140-88-5	4.8E-02	H							V	1.4E+00		1.4E+00					
Ethyl Chloride	75-00-3							1.0E+01	I	V				2.1E+04	2.1E+04	2.1E+04		
Ethyl Ether	60-29-7					2.0E-01	I			V				7.3E+03	7.3E+03	7.3E+03		
Ethyl Methacrylate	97-63-2					9.0E-02	H			V				3.3E+03	3.3E+03	3.3E+03		
Ethyl-p-nitrophenyl Phosphonate	2104-64-5					1.0E-05	I							3.7E-01	3.7E-01	3.7E-01		
Ethylbenzene	100-41-4	1.1E-02	C	2.5E-06	C	1.0E-01	I	1.0E+00	I	V	6.1E+00	1.9E+00	1.5E+00	3.7E+03	2.1E+03	1.3E+03	7.0E+02	
Ethylene Cyanohydrin	109-78-4					3.0E-02	P							1.1E+03	1.1E+03	1.1E+03		
Ethylene Diamine	107-15-3					9.0E-02	P							3.3E+03	3.3E+03	3.3E+03		
Ethylene Glycol	107-21-1					2.0E+00	I	4.0E-01	C					7.3E+04	7.3E+04	7.3E+04		
Ethylene Glycol Monobutyl Ether	111-76-2					5.0E-01	I	1.3E+01	I					1.8E+04	1.8E+04	1.8E+04		
Ethylene Oxide	75-21-8	3.1E-01	C	8.8E-05	C					V	2.2E-01	5.5E-02	4.4E-02					
Ethylene Thiourea	96-45-7	4.5E-02	C	1.3E-05	C	8.0E-05	I				1.5E+00		1.5E+00	2.9E+00	2.9E+00	2.9E+00		
Ethylphthalyl Ethyl Glycolate	84-72-0					3.0E+00	I							1.1E+05	1.1E+05	1.1E+05		
Express	101200-48-0					8.0E-03	I							2.9E+02	2.9E+02	2.9E+02		
Fenamiphos	22224-92-6					2.5E-04	I							9.1E+00	9.1E+00	9.1E+00		
Fenpropathrin	39515-41-8					2.5E-02	I							9.1E+02	9.1E+02	9.1E+02		
Fluometuron	2164-17-2					1.3E-02	I							4.7E+02	4.7E+02	4.7E+02		
Fluorine (Soluble Fluoride)	7782-41-4					6.0E-02	I							2.2E+03	2.2E+03	2.2E+03	4.0E+03	
Fluridone	59756-60-4					8.0E-02	I							2.9E+03	2.9E+03	2.9E+03		
Flurprimidol	56425-91-3					2.0E-02	I							7.3E+02	7.3E+02	7.3E+02		
Flutolanil	66332-96-5					6.0E-02	I							2.2E+03	2.2E+03	2.2E+03		
Fluvalinate	69409-94-5					1.0E-02	I							3.7E+02	3.7E+02	3.7E+02		
Folpet	133-07-3	3.5E-03	I			1.0E-01	I				1.9E+01		1.9E+01	3.7E+03	3.7E+03	3.7E+03		
Fomesafen	72178-02-0	1.9E-01	I								3.5E-01		3.5E-01					
Fonofos	944-22-9					2.0E-03	I							7.3E+01	7.3E+01	7.3E+01		
Formaldehyde	50-00-0			1.3E-05	I	2.0E-01	I	9.8E-03	A					7.3E+03	7.3E+03	7.3E+03		
Formic Acid	64-18-6					2.0E+00	H							7.3E+04	7.3E+04	7.3E+04		
Fosetyl-AL	39148-24-8					3.0E+00	I							1.1E+05	1.1E+05	1.1E+05		
Furans																		
Furan	110-00-9					1.0E-03	I			V				3.7E+01	3.7E+01	3.7E+01		
HpCDF, 2,3,7,8-	38998-75-3	1.5E+03	W	3.3E-01	W						4.5E-05		4.5E-05					
HxCDF, 2,3,7,8-	55684-94-1	1.5E+04	W	3.3E+00	W						4.5E-06		4.5E-06					
OCDF	39001-02-0	4.5E+01	W	9.9E-03	W						1.5E-03		1.5E-03					
PeCDF, 1,2,3,7,8-	57117-41-6	4.5E+03	W	9.9E-01	W						1.5E-05		1.5E-05					
PeCDF, 2,3,4,7,8-	57117-31-4	4.5E+04	W	9.9E+00	W						1.5E-06		1.5E-06					
TCDF, 2,3,7,8-	51207-31-9	1.5E+04	W	3.3E+00	W						4.5E-06		4.5E-06					
Furazolidone	67-45-8	3.8E+00	H								1.8E-02		1.8E-02					

Table A-3 -- Residential Tap Water RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL		
		SFO	k	IUR	k	RfDo	k	RfCi	k	v	o	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	ug/L	
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y	c	g		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
Furfural	98-01-1					3.0E-03	I	5.0E-02		H					1.1E+02		1.1E+02			
Furium	531-82-8	1.5E+00	C	4.3E-04	C							4.5E-02		4.5E-02						
Furmecyclo	60568-05-0	3.0E-02	I									2.2E+00		2.2E+00						
Glufosinate, Ammonium	77182-82-2					4.0E-04	I								1.5E+01		1.5E+01			
Glycidyl	765-34-4					4.0E-04	I	1.0E-03		H					1.5E+01		1.5E+01			
Glyphosate	1071-83-6					1.0E-01	I								3.7E+03		3.7E+03		7.0E+02	
Goal	42874-03-3					3.0E-03	I								1.1E+02		1.1E+02			
Haloxypol, Methyl	69806-40-2					5.0E-05	I								1.8E+00		1.8E+00			
Harmony	79277-27-3					1.3E-02	I								4.7E+02		4.7E+02			
Heptachlor	76-44-8	4.5E+00	I	1.3E-03	I	5.0E-04	I					1.5E-02		1.5E-02	1.8E+01		1.8E+01		4.0E-01	
Heptachlor Epoxide	1024-57-3	9.1E+00	I	2.6E-03	I	1.3E-05	I					7.4E-03		7.4E-03	4.7E-01		4.7E-01		2.0E-01	
Hexabromobenzene	87-82-1					2.0E-03	I								7.3E+01		7.3E+01			
Hexachlorobenzene	118-74-1	1.6E+00	I	4.6E-04	I	8.0E-04	I					4.2E-02		4.2E-02	2.9E+01		2.9E+01		1.0E+00	
Hexachlorobutadiene	87-68-3	7.8E-02	I	2.2E-05	I	1.0E-03	P					8.6E-01		8.6E-01	3.7E+01		3.7E+01			
Hexachlorocyclohexane, Alpha-	319-84-6	6.3E+00	I	1.8E-03	I							1.1E-02								
Hexachlorocyclohexane, Beta-	319-85-7	1.8E+00	I	5.3E-04	I							3.7E-02		3.7E-02						
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	1.1E+00	C	3.1E-04	C	3.0E-04	I					6.1E-02		6.1E-02	1.1E+01		1.1E+01		2.0E-01	
Hexachlorocyclohexane, Technical	608-73-1	1.8E+00	I	5.1E-04	I							3.7E-02		3.7E-02						
Hexachlorocyclopentadiene	77-47-4					6.0E-03	I	2.0E-04		I					2.2E+02		2.2E+02		5.0E+01	
Hexachloroethane	67-72-1	1.4E-02	I	4.0E-06	I	1.0E-03	I					4.8E+00		4.8E+00	3.7E+01		3.7E+01			
Hexachlorophene	70-30-4					3.0E-04	I								1.1E+01		1.1E+01			
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	1.1E-01	I			3.0E-03	I					6.1E-01		6.1E-01	1.1E+02		1.1E+02			
Hexamethylene Diisocyanate, 1,6-	822-06-0							1.0E-05		I V						2.1E-02		2.1E-02		
Hexane, N-	110-54-3					6.0E-02	H	7.0E-01		I V					2.2E+03		1.5E+03		8.8E+02	
Hexanedioic Acid	124-04-9					2.0E+00	P								7.3E+04		7.3E+04			
Hexazinone	51235-04-2					3.3E-02	I								1.2E+03		1.2E+03			
Hydrazine	302-01-2	3.0E+00	I	4.9E-03	I			2.0E-04		C		2.2E-02		2.2E-02						
Hydrazine Sulfate	10034-93-2	3.0E+00	I	4.9E-03	I							2.2E-02		2.2E-02						
Hydrogen Chloride	7647-01-0							2.0E-02		I										
Hydrogen Sulfide	6/4/7783					3.0E-03	I	2.0E-03		I					1.1E+02		1.1E+02			
Imazalil	35554-44-0					1.3E-02	I								4.7E+02		4.7E+02			
Imazaquin	81335-37-7					2.5E-01	I								9.1E+03		9.1E+03			
Iprodione	36734-19-7					4.0E-02	I								1.5E+03		1.5E+03			
Iron	7439-89-6					7.0E-01	P								2.6E+04		2.6E+04			
Isobutyl Alcohol	78-83-1					3.0E-01	I								1.1E+04		1.10E+04			
Isophorone	78-59-1	9.5E-04	I			2.0E-01	I	2.0E+00		C		7.1E+01		7.1E+01	7.3E+03		7.3E+03			
Isopropalin	33820-53-0					1.5E-02	I								5.5E+02		5.5E+02			
Isopropyl Methyl Phosphonic Acid	1832-54-8					1.0E-01	I								3.7E+03		3.7E+03			
Isoxaben	82558-50-7					5.0E-02	I								1.8E+03		1.8E+03			
Kerb	23950-58-5					7.5E-02	I								2.7E+03		2.7E+03			
Lactofen	77501-63-4					2.0E-03	I								7.3E+01		7.3E+01			
Lead Compounds																				
Lead and Compounds	7439-92-1																		1.5E+01	
Tetraethyl Lead	78-00-2					1.0E-07	I								3.7E-03		3.7E-03			
Linuron	330-55-2					2.0E-03	I								7.3E+01		7.3E+01			
Lithium Perchlorate	3/9/7791					7.0E-04	I								2.6E+01		2.6E+01			
Londax	83055-99-6					2.0E-01	I								7.3E+03		7.3E+03			
Malathion	121-75-5					2.0E-02	I								7.3E+02		7.3E+02			
Maleic Anhydride	108-31-6					1.0E-01	I	7.0E-04		C					3.7E+03		3.7E+03			
Maleic Hydrazide	123-33-1					5.0E-01	I								1.8E+04		1.8E+04			

Table A-3 -- Residential Tap Water RSLs

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Contaminant	CAS No.	Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL	
		SFO	k IUR	k RfDo	k RfCi	k v o	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total						
		(mg/kg-day) ⁻¹	(ug/m ³) ⁻¹	(mg/kg-day)	(mg/m ³)	e y								ug/L	ug/L	ug/L	ug/L		ug/L
Malononitrile	109-77-3			1.0E-04	P								3.7E+00		3.7E+00				
Mancozeb	1/7/8018			3.0E-02	H								1.1E+03		1.1E+03				
Maneb	12427-38-2			5.0E-03	I								1.8E+02		1.8E+02				
Manganese (Water)	7439-96-5			2.4E-02	I	5.0E-05	I						8.8E+02		8.8E+02				
MCPA	94-74-6			5.0E-04	I								1.8E+01		1.8E+01				
MCPB	94-81-5			1.0E-02	I								3.7E+02		3.7E+02				
MCPP	93-65-2			1.0E-03	I								3.7E+01		3.7E+01				
Mephosfolan	950-10-7			9.0E-05	H								3.3E+00		3.3E+00				
Mepiquat Chloride	24307-26-4			3.0E-02	I								1.1E+03		1.1E+03				
Mercury Compounds																			
Mercuric Chloride	7487-94-7			3.0E-04	I								1.1E+01		1.1E+01				
Mercuric Sulfide	1344-48-5			3.0E-04	S								1.1E+01		1.1E+01				
Mercury (elemental)	7439-97-6					3.0E-04	I V							6.3E-01	6.3E-01	2.0E+00			
Mercury, Inorganic Salts	NA			3.0E-04	I								1.1E+01		1.10E+01				
Methyl Mercury	22967-92-6			1.0E-04	I								3.7E+00		3.7E+00				
Phenylmercuric Acetate	62-38-4			8.0E-05	I								2.9E+00		2.9E+00				
Merphos	150-50-5			3.0E-05	I								1.1E+00		1.1E+00				
Merphos Oxide	78-48-8			3.0E-05	I								1.1E+00		1.1E+00				
Metalaxyl	57837-19-1			6.0E-02	I								2.2E+03		2.2E+03				
Methacrylonitrile	126-98-7			1.0E-04	I	7.0E-04	H V						3.7E+00	1.5E+00	1.0E+00				
Methamidophos	10265-92-6			5.0E-05	I								1.8E+00		1.8E+00				
Methanol	67-56-1			5.0E-01	I	4.0E+00	C						1.8E+04		1.8E+04				
Methidathion	950-37-8			1.0E-03	I								3.7E+01		3.7E+01				
Methomyl	16752-77-5			2.5E-02	I								9.1E+02		9.1E+02				
Methoxy-5-nitroaniline, 2-	99-59-2	4.9E-02	C	1.4E-05	C								1.4E+00		1.4E+00				
Methoxychlor	72-43-5			5.0E-03	I								1.8E+02		1.8E+02	4.0E+01			
Methoxyethanol Acetate, 2-	110-49-6			2.0E-03	H								7.3E+01		7.3E+01				
Methoxyethanol, 2-	109-86-4					2.0E-02	I												
Methyl Acetate	79-20-9			1.0E+00	H								3.7E+04		3.7E+04				
Methyl Acrylate	96-33-3			3.0E-02	H								1.1E+03		1.1E+03				
Methyl Ethyl Ketone (2-Butanone)	78-93-3			6.0E-01	I	5.0E+00	I V						2.2E+04	1.0E+04	7.1E+03				
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1			8.0E-02	H	3.0E+00	I V						2.9E+03	6.3E+03	2.0E+03				
Methyl Methacrylate	80-62-6			1.4E+00	I	7.0E-01	I V						5.1E+04	1.5E+03	1.4E+03				
Methyl Parathion	298-00-0			2.5E-04	I								9.1E+00		9.1E+00				
Methyl Styrene (Mixed Isomers)	25013-15-4			6.0E-03	H	4.0E-02	H V						2.2E+02	8.3E+01	6.0E+01				
Methyl tert-Butyl Ether (MTBE)	1634-04-4	1.8E-03	C	2.6E-07	C			3.0E+00	I V				3.7E+01	1.9E+01	1.2E+01				
Methyl-5-Nitroaniline, 2-	99-55-8	3.3E-02	H										2.0E+00		2.0E+00				
Methylaniline Hydrochloride, 2-	636-21-5	1.3E-01	C	3.7E-05	C								5.2E-01		5.2E-01				
Methylarsonic acid	124-58-3			1.0E-02	A								3.7E+02		3.7E+02				
Methylcyclohexane	108-87-2					3.0E+00	H V							6.3E+03	6.3E+03				
Methylene Chloride	75-09-2	7.5E-03	I	4.7E-07	I	6.0E-02	I	1.1E+00	A V				9.0E+00	1.0E+01	4.8E+00	2.2E+03	2.2E+03	1.1E+03	5.0E+00
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	1.0E-01	P	4.3E-10	C	2.0E-03	P						2.2E-01		2.2E-01	7.3E+01	7.3E+01		
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	4.6E-02	I										1.5E+00		1.5E+00				
Methylenebisbenzidine, 4,4'-	101-77-9	1.6E+00	C	4.6E-04	C								4.2E-02		4.2E-02				
Methylenediphenyl Diisocyanate	101-68-8					6.0E-04	I												
Methylstyrene, Alpha-	98-83-9			7.0E-02	H										2.6E+03	2.6E+03			
Metolachlor	51218-45-2			1.5E-01	I										5.5E+03	5.5E+03			
Metribuzin	21087-64-9			2.5E-02	I										9.1E+02	9.1E+02			
Mirex	2385-85-5	1.8E+01	C	5.1E-03	C	2.0E-04	I						3.7E-03		3.7E-03	7.3E+00	7.3E+00		
Molinate	2212-67-1			2.0E-03	I										7.3E+01	7.3E+01			

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Contaminant		Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL	
Analyte	CAS No.	SFO	k	IUR	k	RfDo	k	RfCl	k	v	o	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	ug/L
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y	c	mutagen		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Molybdenum	7439-98-7					5.0E-03	I									1.8E+02		1.8E+02	
Monochloramine	10599-90-3					1.0E-01	I									3.7E+03		3.7E+03	
Monochlorobutanes	25154-42-1					4.0E-01	H									1.5E+04		1.5E+04	
Monomethylaniline	100-61-8			P		2.0E-03	P									7.3E+01		7.3E+01	
N,N'-Diphenyl-1,4-benzenediamine	74-31-7					3.0E-04	P									1.1E+01		1.1E+01	
Naled	300-76-5					2.0E-03	I									7.3E+01		7.3E+01	
Napropamide	15299-99-7					1.0E-01	I									3.7E+03		3.7E+03	
Nickel Refinery Dust	NA			2.4E-04	I														
Nickel Soluble Salts	7440-02-0					2.0E-02	I									7.3E+02		7.3E+02	
Nickel Subsulfide	12035-72-2			4.8E-04	I														
Nitrate	14797-55-8					1.6E+00	I									5.8E+04		5.8E+04	1.0E+04
Nitrite	14797-65-0					1.0E-01	I									3.7E+03		3.7E+03	1.0E+03
Nitrobenzene	98-95-3					5.0E-04	I	2.0E-03	H	V						1.8E+01	4.2E+00	3.4E+00	
Nitrofurantoin	67-20-9					7.0E-02	H									2.6E+03		2.6E+03	
Nitrofurazone	59-87-0	1.3E+00	C	3.7E-04	C								5.2E-02		5.2E-02				
Nitroglycerin	55-63-0	1.7E-02	P			1.0E-04	P						4.0E+00		4.0E+00	3.7E+00		3.7E+00	
Nitroguanidine	556-88-7					1.0E-01	I									3.7E+03		3.7E+03	
Nitromethane	75-52-5			9.0E-06	P			2.0E-02	P	V				5.4E-01	5.4E-01		4.2E+01	4.2E+01	
Nitropropane, 2-	79-46-9			2.7E-03	H			2.0E-02	I	V				1.8E-03	1.8E-03		4.2E+01	4.2E+01	
Nitroso-di-N-butylamine, N-	924-16-3	5.4E+00	I	1.6E-03	I					V			1.2E-02	3.0E-03	2.4E-03				
Nitroso-di-N-propylamine, N-	621-64-7	7.0E+00	I										9.6E-03		9.6E-03				
Nitroso-N-ethylurea, N-	759-73-9	2.7E+01	C	7.7E-03	C						M		8.0E-04		8.0E-04				
Nitrosodiethanolamine, N-	1116-54-7	2.8E+00	I										2.4E-02		2.4E-02				
Nitrosodiethylamine, N-	55-18-5	1.5E+02	I	4.3E-02	I						M		1.4E-04		1.4E-04				
Nitrosodimethylamine, N-	62-75-9	5.1E+01	I	1.4E-02	I	8.0E-06	P				M		4.2E-04		4.2E-04	2.9E-01		2.9E-01	
Nitrosodiphenylamine, N-	86-30-6	4.9E-03	I										1.4E+01		1.4E+01				
Nitrosomethylethylamine, N-	10595-95-6	2.2E+01	I										3.1E-03		3.1E-03				
Nitrosopyrrolidine, N-	930-55-2	2.1E+00	I	6.1E-04	I								3.2E-02		3.2E-02				
Nitrotoluene, o-	88-72-2					1.0E-02	H			V						3.7E+02		3.7E+02	
Nitrotoluene, p-	99-99-0	1.6E-02	P			4.0E-03	P						4.2E+00		4.2E+00	1.5E+02		1.5E+02	
Norflurazon	27314-13-2					4.0E-02	I									1.5E+03		1.5E+03	
Nustar	85509-19-9					7.0E-04	I									2.6E+01		2.6E+01	
Octabromodiphenyl Ether	32536-52-0					3.0E-03	I									1.1E+02		1.1E+02	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX)	2691-41-0					5.0E-02	I									1.8E+03		1.8E+03	
Octamethylpyrophosphoramide	152-16-9					2.0E-03	H									7.3E+01		7.3E+01	
Oryzalin	19044-88-3					5.0E-02	I									1.8E+03		1.8E+03	
Oxadiazon	19666-30-9					5.0E-03	I									1.8E+02		1.8E+02	
Oxamyl	23135-22-0					2.5E-02	I									9.1E+02		9.1E+02	2.0E+02
Paclobutrazol	76738-62-0					1.3E-02	I									4.7E+02		4.7E+02	
Polynuclear Aromatic Hydrocarbons (PAHs)																			
Acenaphthene	83-32-9					6.0E-02	I			V						2.2E+03		2.2E+03	
Anthracene	120-12-7					3.0E-01	I			V						1.1E+04		1.1E+04	
Benz[a]anthracene	56-55-3	7.3E-01	*	1.1E-04	C						M		2.9E-02		2.9E-02				
Benzo[a]pyrene	50-32-8	7.3E+00	I	1.1E-03	C						M		2.9E-03		2.9E-03				2.0E-01
Benzo[b]fluoranthene	205-99-2	7.3E-01	*	1.1E-04	C						M		2.9E-02		2.9E-02				
Benzo[k]fluoranthene	207-08-9	7.3E-02	*	1.1E-04	C						M		2.9E-01		2.9E-01				
Chrysene	218-01-9	7.3E-03	*	1.1E-05	C						M		2.9E+00		2.9E+00				
Dibenz[a,h]anthracene	53-70-3	7.3E+00	*	1.2E-03	C						M		2.9E-03		2.9E-03				
Fluoranthene	206-44-0					4.0E-02	I									1.5E+03		1.5E+03	
Fluorene	86-73-7					4.0E-02	I			V						1.5E+03		1.5E+03	

Table A-3 -- Residential Tap Water RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL	
		SFO	k	IUR	k	RfDo	k	RfCi	k	v	o	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation		Total
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y	c									
Analyte	CAS No.	(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y	c	mutagen	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Indeno[1,2,3-cd]pyrene	193-39-5	7.3E-01	*	1.1E-04	C						M	2.9E-02		2.9E-02					
Methylnaphthalene, 1-	90-12-0	2.9E-02	P			7.0E-03	P				V	2.3E+00		2.3E+00	2.6E+02		2.6E+02		
Methylnaphthalene, 2-	91-57-6					4.0E-03	I				V				1.5E+02		1.5E+02		
Naphthalene	91-20-3			3.4E-05	C	2.0E-02	I	3.0E-03	I	V		1.4E-01	1.4E-01	1.4E-01	7.3E+02	6.3E+00	6.2E+00		
Pyrene	129-00-0					3.0E-02	I				V				1.1E+03		1.10E+03		
Paraquat Dichloride	1910-42-5					4.5E-03	I								1.6E+02		1.6E+02		
Parathion	56-38-2					6.0E-03	H								2.2E+02		2.2E+02		
Polychlorinated Biphenyls (PCBs)																			
Aroclor 1016	12674-11-2	7.0E-02	I	2.0E-05	I	7.0E-05	I					9.6E-01		9.6E-01	2.6E+00		2.6E+00		
Aroclor 1221	11104-28-2	2.0E+00	I	5.7E-04	I						V	3.4E-02	8.5E-03	6.8E-03					
Aroclor 1232	11141-16-5	2.0E+00	I	5.7E-04	I						V	3.4E-02	8.5E-03	6.8E-03					
Aroclor 1242	53469-21-9	2.0E+00	I	5.7E-04	I							3.4E-02		3.4E-02					
Aroclor 1248	12672-29-6	2.0E+00	I	5.7E-04	I							3.4E-02		3.4E-02					
Aroclor 1254	11097-69-1	2.0E+00	I	5.7E-04	I	2.0E-05	I					3.4E-02		3.4E-02	7.3E-01		7.3E-01		
Aroclor 1260	11096-82-5	2.0E+00	I	5.7E-04	I							3.4E-02		3.4E-02					
Heptachlorobiphenyl, 2,2',3,3',4,4',5'- (PCB 170)	35065-30-6	1.5E+01	W	3.3E-03	W							4.5E-03		4.5E-03					
Heptachlorobiphenyl, 2,2',3,4,4',5,5'- (PCB 180)	35065-29-3	1.5E+00	W	3.3E-04	W							4.5E-02		4.5E-02					
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	4.5E+00	W	9.9E-04	W							1.5E-02		1.5E-02					
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	4.5E+00	W	9.9E-04	W							1.5E-02		1.5E-02					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	4.5E+00	W	9.9E-04	W							1.5E-02		1.5E-02					
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 156)	38380-08-4	4.5E+00	W	9.9E-04	W							1.5E-02		1.5E-02					
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	4.5E+03	W	9.9E-01	W							1.5E-05		1.5E-05					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	4.5E+00	W	9.9E-04	W							1.5E-02		1.5E-02					
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	4.5E+00	W	9.9E-04	W							1.5E-02		1.5E-02					
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	4.5E+00	W	9.9E-04	W							1.5E-02		1.5E-02					
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	4.5E+00	W	9.9E-04	W							1.5E-02		1.5E-02					
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	1.5E+04	W	3.3E+00	W							4.5E-06		4.5E-06					
Polychlorinated Biphenyls (low risk)	1336-36-3	4.0E-01	I	1.0E-04	I							1.7E-01		1.7E-01			5.0E-01		
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	1.5E+01	W	3.3E-03	W							4.5E-03		4.5E-03					
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	4.5E+01	W	9.9E-03	W							1.5E-03		1.5E-03					
Pebulate	1114-71-2					5.0E-02	H								1.8E+03		1.8E+03		
Pendimethalin	40487-42-1					4.0E-02	I								1.5E+03		1.5E+03		
Pentabromodiphenyl Ether	32534-81-9					2.0E-03	I								7.3E+01		7.3E+01		
Pentachlorobenzene	608-93-5					8.0E-04	I								2.9E+01		2.90E+01		
Pentachloronitrobenzene	82-68-8	2.6E-01	H			3.0E-03	I					2.6E-01		2.6E-01	1.1E+02		1.1E+02		
Pentachlorophenol	87-86-5	1.2E-01	I			3.0E-02	I					5.6E-01		5.6E-01	1.1E+03		1.1E+03		
Perchlorate and Perchlorate Salts	14797-73-0					7.0E-04	I								2.6E+01		2.6E+01		
Permethrin	52645-53-1					5.0E-02	I								1.8E+03		1.8E+03		
Phenmedipham	13684-63-4					2.5E-01	I								9.1E+03		9.1E+03		
Phenol	108-95-2					3.0E-01	I	2.0E-01	C						1.1E+04		1.1E+04		
Phenylenediamine, m-	108-45-2					6.0E-03	I								2.2E+02		2.2E+02		
Phenylenediamine, o-	95-54-5	4.7E-02	H									1.4E+00		1.4E+00					
Phenylenediamine, p-	106-50-3					1.9E-01	H								6.9E+03		6.9E+03		
Phenylphenol, 2-	90-43-7	1.9E-03	H									3.5E+01		3.5E+01					
Phorate	298-02-2					2.0E-04	H								7.3E+00		7.3E+00		
Phosmet	732-11-6					2.0E-02	I								7.3E+02		7.3E+02		
Phosphine	7803-51-2					3.0E-04	I	3.0E-04	I						1.1E+01		1.1E+01		
Phosphoric Acid	7664-38-2							1.0E-02	I										
Phosphorus, White	7723-14-0					2.0E-05	I								7.3E-01		7.3E-01		
Phthalic Acid, P-	100-21-0					1.0E+00	H								3.7E+04		3.7E+04		

Table A-3 -- Residential Tap Water RSLs

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Contaminant		Toxicity and Chemical-specific Information							Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL			
Analyte	CAS No.	SFO	k	IUR	k	RfDo	k	RfCi	k	v	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	ug/L
		(mg/kg-day) ⁻¹	y	(ug/m ³) ⁻¹	y	(mg/kg-day)	y	(mg/m ³)	y	o		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Phthalic Anhydride	85-44-9					2.0E+00	I	2.0E-02	C						7.3E+04		7.3E+04	
Picloram	2/1/1918					7.0E-02	I								2.6E+03		2.6E+03	5.0E+02
Pirimiphos, Methyl	29232-93-7					1.0E-02	I								3.7E+02		3.7E+02	
Polybrominated Biphenyls	59536-65-1	3.0E+01	C	8.6E-03	C	7.0E-06	H					2.2E-03		2.2E-03	2.6E-01		2.6E-01	
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9							6.0E-04	I									
Potassium Perchlorate	7778-74-7					7.0E-04	I								2.6E+01		2.6E+01	
Prochloraz	67747-09-5	1.5E-01	I			9.0E-03	I					4.5E-01		4.5E-01	3.3E+02		3.3E+02	
Profluralin	26399-36-0					6.0E-03	H								2.2E+02		2.2E+02	
Prometon	1610-18-0					1.5E-02	I								5.5E+02		5.5E+02	
Prometryn	7287-19-6					4.0E-03	I								1.5E+02		1.5E+02	
Propachlor	1918-16-7					1.3E-02	I								4.7E+02		4.7E+02	
Propanil	709-98-8					5.0E-03	I								1.8E+02		1.8E+02	
Propargite	2312-35-8					2.0E-02	I								7.3E+02		7.3E+02	
Propargyl Alcohol	107-19-7					2.0E-03	I								7.3E+01		7.3E+01	
Propazine	139-40-2					2.0E-02	I								7.3E+02		7.3E+02	
Propham	122-42-9					2.0E-02	I								7.3E+02		7.3E+02	
Propiconazole	60207-90-1					1.3E-02	I								4.7E+02		4.7E+02	
Propylene Glycol	57-55-6					2.0E+01	P								7.3E+05		7.3E+05	
Propylene Glycol Dinitrate	6423-43-4						A	2.7E-04	A V							5.7E-01	5.7E-01	
Propylene Glycol Monoethyl Ether	1569-02-4					7.0E-01	H								2.6E+04		2.6E+04	
Propylene Glycol Monomethyl Ether	107-98-2					7.0E-01	H	2.0E+00	I						2.6E+04		2.6E+04	
Propylene Oxide	75-56-9	2.4E-01	I	3.7E-06	I			3.0E-02	I V			2.8E-01	1.3E+00	2.3E-01		6.3E+01	6.3E+01	
Pursuit	81335-77-5					2.5E-01	I								9.1E+03		9.1E+03	
Pydrin	51630-58-1					2.5E-02	I								9.1E+02		9.1E+02	
Pyridine	110-86-1					1.0E-03	I			V					3.7E+01		3.7E+01	
Quinalphos	13593-03-8					5.0E-04	I								1.8E+01		1.8E+01	
Quinoline	91-22-5	3.0E+00	I									2.2E-02		2.2E-02				
Refractory Ceramic Fibers	NA							3.0E-02	A									
Resmethrin	10453-86-8					3.0E-02	I								1.1E+03		1.1E+03	
Ronnel	299-84-3					5.0E-02	H								1.8E+03		1.8E+03	
Rotenone	83-79-4					4.0E-03	I								1.5E+02		1.5E+02	
Savey	78587-05-0					2.5E-02	I								9.1E+02		9.1E+02	
Selenious Acid	7783-00-8					5.0E-03	I								1.8E+02		1.8E+02	
Selenium	7782-49-2					5.0E-03	I								1.8E+02		1.8E+02	5.0E+01
Selenourea	630-10-4					5.0E-03	H								1.8E+02		1.8E+02	
Sethoxydim	74051-80-2					9.0E-02	I								3.3E+03		3.3E+03	
Silver	7440-22-4					5.0E-03	I								1.8E+02		1.8E+02	
Simazine	122-34-9	1.2E-01	H			5.0E-03	I					5.6E-01		5.6E-01	1.8E+02		1.8E+02	4.0E+00
Sodium Acifluorfen	62476-59-9					1.3E-02	I								4.7E+02		4.7E+02	
Sodium Azide	26628-22-8					4.0E-03	I								1.5E+02		1.5E+02	
Sodium Diethyldithiocarbamate	148-18-5	2.7E-01	H			3.0E-02	I					2.5E-01		2.5E-01	1.1E+03		1.1E+03	
Sodium Fluoroacetate	62-74-8					2.0E-05	I								7.3E-01		7.3E-01	
Sodium Metavanadate	13718-26-8					1.0E-03	H								3.7E+01		3.7E+01	
Sodium Perchlorate	7601-89-0					7.0E-04	I								2.6E+01		2.6E+01	
Stirofos (Tetrachlorovinphos)	961-11-5	2.4E-02	H			3.0E-02	I					2.8E+00		2.8E+00	1.1E+03		1.1E+03	
Strontium, Stable	7440-24-6					6.0E-01	I								2.2E+04		2.2E+04	
Strychnine	57-24-9					3.0E-04	I								1.1E+01		1.1E+01	
Styrene	100-42-5					2.0E-01	I	1.0E+00	I V						7.3E+03	2.1E+03	1.6E+03	1.0E+02
Systhane	88671-89-0					2.5E-02	I								9.1E+02		9.1E+02	
TCMTB	21564-17-0					3.0E-02	H								1.1E+03		1.1E+03	

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Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant	CAS No.	Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL	
		SFO	k	IUR	k	RfDo	k	RfCi	k	v	o	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation		Total
Tebuthiuron	34014-18-1					7.0E-02	I										2.6E+03	2.6E+03	
Temephos	3383-96-8					2.0E-02	H										7.3E+02	7.3E+02	
Terbacil	5902-51-2					1.3E-02	I										4.7E+02	4.7E+02	
Terbufos	13071-79-9					2.5E-05	H										9.1E-01	9.1E-01	
Terbutryn	886-50-0					1.0E-03	I										3.7E+01	3.7E+01	
Tetrachlorobenzene, 1,2,4,5-	95-94-3					3.0E-04	I										1.1E+01	1.1E+01	
Tetrachloroethane, 1,1,1,2-	630-20-6	2.6E-02	I	7.4E-06	I	3.0E-02	I					V	2.6E+00	6.6E-01	5.2E-01	1.1E+03	1.1E+03		
Tetrachloroethane, 1,1,1,2,2-	79-34-5	2.0E-01	I	5.8E-05	I							V	3.4E-01	8.4E-02	6.7E-02				
Tetrachloroethylene	127-18-4	5.4E-01	C	5.9E-06	C	1.0E-02	I	2.7E-01	A	V		1.2E-01	8.2E-01	1.1E-01	3.7E+02	5.7E+02	2.2E+02	5.0E+00	
Tetrachlorophenol, 2,3,4,6-	58-90-2					3.0E-02	I									1.1E+03	1.1E+03		
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	2.0E+01	H										3.4E-03		3.4E-03				
Tetraethyl Dithiopyrophosphate	3689-24-5					5.0E-04	I									1.8E+01	1.8E+01		
Tetrafluoroethane, 1,1,1,2-	811-97-2							8.0E+01	I	V						1.7E+05	1.7E+05		
Tetryl (Trinitrophenylmethylnitramine)	479-45-8					4.0E-03	P									1.5E+02	1.5E+02		
Thallium (I) Nitrate	10102-45-1					9.0E-05	I									3.3E+00	3.3E+00		
Thallium (Soluble Salts)	7440-28-0					6.5E-05	S									2.4E+00	2.4E+00	2.0E+00	
Thallium Acetate	563-68-8					9.0E-05	I									3.3E+00	3.3E+00		
Thallium Carbonate	6533-73-9					8.0E-05	I									2.9E+00	2.9E+00		
Thallium Chloride	7791-12-0					8.0E-05	I									2.9E+00	2.9E+00		
Thallium Sulfate	7446-18-6					8.0E-05	I									2.9E+00	2.9E+00		
Thiobencarb	28249-77-6					1.0E-02	I									3.7E+02	3.7E+02		
Thiofanox	39196-18-4					3.0E-04	H									1.1E+01	1.1E+01		
Thiophanate, Methyl	23564-05-8					8.0E-02	I									2.9E+03	2.9E+03		
Thiram	137-26-8					5.0E-03	I									1.8E+02	1.8E+02		
Tin	7440-31-5					6.0E-01	H									2.2E+04	2.20E+04		
Toluene	108-88-3					8.0E-02	I	5.0E+00	I	V						2.9E+03	1.0E+04	2.3E+03	1.0E+03
Toluene diisocyanate mixture (TDI)	26471-62-5							7.0E-05	I	V							1.5E-01	1.5E-01	
Toluene-2,4-diamine	95-80-7	3.8E+00	C	1.1E-03	C								1.8E-02		1.8E-02				
Toluene-2,5-diamine	95-70-5					6.0E-01	H									2.2E+04	2.2E+04		
Toluene-2,6-diamine	823-40-5					3.0E-02	P									1.1E+03	1.1E+03		
Toluidine, o- (Methylaniline, 2-)	95-53-4	1.8E-01	C	5.1E-05	C								3.7E-01		3.7E-01				
Toluidine, p-	106-49-0	1.9E-01	H										3.5E-01		3.5E-01				
Toxaphene	8001-35-2	1.1E+00	I	3.2E-04	I								6.1E-02		6.1E-02				3.0E+00
Tralomeprin	66841-25-6					7.5E-03	I									2.7E+02	2.7E+02		
Triallate	2303-17-5					1.3E-02	I									4.7E+02	4.7E+02		
Triasulfuron	82097-50-5					1.0E-02	I									3.7E+02	3.7E+02		
Tribromobenzene, 1,2,4-	615-54-3					5.0E-03	I									1.8E+02	1.8E+02		
Tributyltin Compounds	NA					3.0E-04	P									1.1E+01	1.1E+01		
Tributyltin Oxide	56-35-9					3.0E-04	I									1.1E+01	1.1E+01		
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1					3.0E+01	I	3.0E+01	H	V						1.1E+06	6.3E+04	5.9E+04	
Trichloroaniline HCl, 2,4,6-	33663-50-2	2.9E-02	H										2.3E+00		2.3E+00				
Trichloroaniline, 2,4,6-	634-93-5	3.4E-02	H										2.0E+00		2.0E+00				
Trichlorobenzene, 1,2,4-	120-82-1	3.6E-03	C			1.0E-02	I					V	1.9E+01		1.9E+01	3.7E+02	3.7E+02	7.0E+01	
Trichloroethane, 1,1,1-	71-55-6					2.0E+00	I	5.0E+00	I	V						7.3E+04	1.0E+04	9.1E+03	2.0E+02
Trichloroethane, 1,1,2-	79-00-5	5.7E-02	I	1.6E-05	I	4.0E-03	I					V	1.2E+00	3.0E-01	2.4E-01	1.5E+02	1.5E+02	5.0E+00	
Trichloroethylene	79-01-6	1.3E-02	C	2.0E-06	C							V	5.2E+00	2.4E+00	1.7E+00			5.0E+00	
Trichlorofluoromethane	75-69-4					3.0E-01	I	7.0E-01	H	V						1.1E+04	1.5E+03	1.3E+03	
Trichlorophenol, 2,4,5-	95-95-4					1.0E-01	I									3.7E+03	3.7E+03		
Trichlorophenol, 2,4,6-	88-06-2	1.1E-02	I	3.1E-06	I	1.0E-03	P						6.1E+00		6.1E+00	3.7E+01	3.7E+01		
Trichlorophenoxy Propionic Acid, 2(2,4,5-	93-72-1					8.0E-03	I									2.9E+02	2.9E+02	5.0E+01	

Table A-3 -- Residential Tap Water RSLs

Key: I = IRIS; P = PPRTV; A = ATSDR; C = Cal EPA; H = HEAST; W = WHO; S = see user guide Section 5; L = see user guide on lead; M = mutagen; V= volatile; ca = cancer; ca* = where: nc SL < 100X ca SL; ca** = where nc SL < 10X ca SL; nc = noncancer; max=Concentration may exceed ceiling limit (See User's Guide); sat=Concentration may exceed Csat (See User's Guide); SSL values are based on DAF=1

Contaminant		Toxicity and Chemical-specific Information										Carcinogenic Target Risk (TR) = 1E-06			Noncancer Hazard Index (HI) = 1			MCL	
Analyte	CAS No.	SFO	k	IUR	k	RfDo	k	RfCi	k	v	o	mutagen	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	ug/L
		(mg/kg-day) ⁻¹	e	(ug/m ³) ⁻¹	e	(mg/kg-day)	e	(mg/m ³)	e	y	c		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5					1.0E-02	I									3.7E+02		3.7E+02	
Trichloropropane, 1,1,2-	598-77-6					5.0E-03	I					V				1.8E+02		1.8E+02	
Trichloropropane, 1,2,3-	96-18-4	7.0E+00	H			6.0E-03	I					V	9.6E-03		9.6E-03	2.2E+02		2.2E+02	
Tridiphane	58138-08-2					3.0E-03	I									1.1E+02		1.10E+02	
Triethylamine	121-44-8							7.0E-03	I	V						1.5E+01		1.5E+01	
Trifluralin	1582-09-8	7.7E-03	I			7.5E-03	I						8.7E+00		8.7E+00	2.7E+02		2.7E+02	
Trimethyl Phosphate	512-56-1	3.7E-02	H										1.8E+00		1.8E+00				
Trimethylbenzene, 1,2,4-	95-63-6							7.0E-03	P	V						1.5E+01		1.5E+01	
Trinitrobenzene, 1,3,5-	99-35-4					3.0E-02	I									1.1E+03		1.1E+03	
Trinitrotoluene, 2,4,6-	118-96-7	3.0E-02	I			5.0E-04	I						2.2E+00		2.2E+00	1.8E+01		1.8E+01	
Tri-n-butyltin	688-73-3					3.0E-04	A									1.1E+01		1.1E+01	
Uranium (Soluble Salts)	NA					3.0E-03	I									1.1E+02		1.1E+02	
Vanadium Pentoxide	1314-62-1					9.0E-03	I									3.3E+02		3.3E+02	
Vanadium Sulfate	36907-42-3					2.0E-02	H									7.3E+02		7.3E+02	
Vanadium and Compounds	NA					5.0E-03	S									1.8E+02		1.8E+02	
Vanadium, Metallic	7440-62-2					7.0E-03	H									2.6E+02		2.6E+02	
Vanadyl Sulfate	27774-13-6					2.0E-02	H									7.3E+02		7.3E+02	
Vernolate	1929-77-7					1.0E-03	I									3.7E+01		3.7E+01	
Vinclozolin	50471-44-8					2.5E-02	I									9.1E+02		9.1E+02	
Vinyl Acetate	108-05-4					1.0E+00	H	2.0E-01	I	V						3.7E+04	4.2E+02	4.1E+02	
Vinyl Bromide	593-60-2							3.0E-03	I	V						6.3E+00	6.3E+00	6.3E+00	
Vinyl Chloride	75-01-4	7.2E-01	I	4.4E-06	I	3.0E-03	I	1.0E-01	I	V	M		1.7E-02	3.2E-01	1.6E-02	1.1E+02	2.1E+02	7.2E+01	2.0E+00
Warfarin	81-81-2					3.0E-04	I									1.1E+01		1.1E+01	
Xylene, Mixture	1330-20-7					2.0E-01	I	1.0E-01	I	V						7.3E+03	2.1E+02	2.0E+02	1.0E+04
Xylene, P-	106-42-3							7.0E-01	C	V							1.5E+03	1.5E+03	
Xylene, m-	108-38-3					2.0E+00	H	7.0E-01	C	V						7.3E+04	1.5E+03	1.4E+03	
Xylene, o-	95-47-6					2.0E+00	H	7.0E-01	C	V						7.3E+04	1.5E+03	1.4E+03	
Zinc (Metallic)	7440-66-6					3.0E-01	I									1.1E+04		1.1E+04	
Zinc Phosphide	1314-84-7					3.0E-04	I									1.1E+01		1.1E+01	
Zineb	12122-67-7					5.0E-02	I									1.8E+03		1.8E+03	

ATTACHMENT A-1

USEPA RESIDENTIAL SOIL REGIONAL SCREENING LEVELS USERS GUIDE



Mid-Atlantic Risk Assessment

You are here: [EPA Home](#) | [Mid-Atlantic Risk Assessment](#) | Risk-Based Concentration Table

User's Guide Disclaimer

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This guidance sets forth a recommended, but not mandatory, approach based upon currently available information with respect to risk assessment for response actions at CERCLA sites. This document does not establish binding rules. Alternative approaches for risk assessment may be found to be more appropriate at specific sites (e.g., where site circumstances do not match the underlying assumptions, conditions and models of the guidance). The decision whether to use an alternative approach and a description of any such approach should be documented for such sites. Accordingly, when comments are received at individual CERCLA sites questioning the use of the approaches recommended in this guidance, the comments should be considered and an explanation provided for the selected approach.

It should also be noted that the screening levels (SLs) in these tables are based upon human health risk and do not address potential ecological risk. Some sites in sensitive ecological settings may also need to be evaluated for potential ecological risk. EPA's guidance "Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessment" <http://www.epa.gov/oswer/riskassessment/ecorisk/ecorisk.htm> contains an eight step process for using benchmarks for ecological effects in the remedy selection process.

1. Introduction

The purpose of this website is to provide default screening tables and a calculator to assist Remedial Project Managers (RPMs), On Scene Coordinators (OSC's), risk assessors and others involved in decision-making concerning CERCLA hazardous waste sites and to determine whether levels of contamination found at the site may warrant further investigation or site cleanup, or whether no further investigation or action may be required.

Users within and outside the CERCLA program should use the tables or calculator results at their own discretion and they should take care to understand the assumptions incorporated in these results and to apply the SLs appropriately.

The SLs presented in the Generic Tables are chemical-specific concentrations for individual contaminants in air, drinking water and soil that may warrant further investigation or site cleanup. The SLs generated from the calculator may be site-specific concentrations for individual chemicals in soil, air, water and fish. **It should be emphasized that SLs are not cleanup standards.** SLs should not be used as cleanup levels for a CERCLA site until the other remedy selections identified in the relevant portions of the National Contingency Plan (NCP), 40 CFR Part 300, have been evaluated and considered. PRGs is a term used to describe a project team's early and evolving identification of possible remedial goals. PRGs may be initially identified early in the Remedial Investigation/ Feasibility Study (RI/FS) process (e.g., at RI scoping) to select appropriate detection limits for RI sampling. Typically, it is necessary for PRGs to be more generic early in the process and to become more refined and site-specific as data collection and assessment progress. The SLs identified on this website are likely to serve as PRGs early in the process--e.g., at RI scoping and at screening of chemicals of potential concern (COPCs) for the baseline risk assessment. However, once the baseline risk assessment has been performed, PRGs can be derived from the calculator using site-specific risks, and the SLs in the Generic Tables are less likely to apply. PRGs developed in the FS will usually be based on site-specific risks and Applicable or Relevant and Appropriate Requirements (ARARs) and not on generic SLs.

2. Understanding the Screening Tables

2.1 General Considerations

Risk-based SLs are derived from equations combining exposure assumptions with chemical-specific toxicity values.

2.2 Exposure Assumptions

Generic SLs are based on default exposure parameters and factors that represent Reasonable Maximum Exposure (RME) conditions for long-term/chronic exposures and are based on the methods outlined in EPA's [Risk Assessment Guidance for Superfund, Part B Manual \(1991\)](#) and Soil Screening Guidance documents (1996 and 2002).

Site-specific information may warrant modifying the default parameters in the equations and calculating site-specific SLs, which may differ from the values in these tables. In completing such calculations, the user should answer some fundamental questions about the site. For example, information is needed on the contaminants detected at the site, the land use, impacted media and the likely pathways for human exposure.

Whether these generic SLs or site-specific screening levels are used, it is important to clearly demonstrate the equations and exposure parameters used in deriving SLs at a site. A discussion of the assumptions used in the SL calculations should be included in the documentation for a CERCLA site.

2.3 Toxicity Values

In 2003, EPA's Superfund program revised its hierarchy of human health toxicity values, providing three tiers of toxicity values (<http://www.epa.gov/oswer/riskassessment/pdf/hhmemo.pdf>). Three tier 3 sources were identified in that guidance, but it was acknowledged that additional tier 3 sources may exist. The 2003 guidance did not attempt to rank or put the identified tier 3 sources into a hierarchy of their own. However, when developing the screening tables and calculator presented on this website, EPA needed to establish a hierarchy among the tier 3 sources. The toxicity values used as "defaults" in these tables and calculator are consistent with the 2003 guidance. Toxicity values from the following sources in the order in which they are presented below are used as the defaults in these tables and calculator.

1. EPA's Integrated Risk Information System (IRIS)
2. The Provisional Peer Reviewed Toxicity Values (PPRTVs) derived by EPA's Superfund Health Risk Technical Support Center (STSC) for the EPA Superfund program. (Note that the PPRTV website is not open to users outside of EPA, but assessments can be obtained for use on Superfund sites by contacting Dave Crawford at Crawford.Dave@epa.gov).
3. The Agency for Toxic Substances and Disease Registry (ATSDR) minimal risk levels (MRLs)

- The California Environmental Protection Agency/Office of Environmental Health Hazard Assessment's toxicity values (<http://www.oehha.ca.gov/risk/ChemicalDB/index.asp>)
- The EPA Superfund program's Health Effects Assessment Summary. (Note that the [HEAST](#) website of toxicity values for chemical contaminants is not open to users outside of EPA, but values can be obtained for use on Superfund sites by contacting Dave Crawford at Crawford.Dave@epa.gov).

Users of these screening tables and calculator wishing to consider using other toxicity values, including toxicity values from additional sources, may find the discussions and seven preferences on selecting toxicity values in the attached Environmental Council of States paper useful for this purpose ([ECOS website](#), ECOS paper).

When using toxicity values, users are encouraged to carefully review the basis for the value and to document the basis of toxicity values used on a CERCLA site.

2.3.1 Reference Doses

The current, or recently completed, EPA toxicity assessments used in these screening tables (IRIS and PPRTVs) define a reference dose, or RfD, as an estimate (with uncertainty spanning perhaps an order of magnitude) of a daily oral exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime. It can be derived from a NOAEL, LOAEL, or benchmark dose, or using categorical regression, with uncertainty factors generally applied to reflect limitations of the data used. RfDs are generally the toxicity value used most often in evaluating noncancer health effects at Superfund sites. Various types of RfDs are available depending on the critical effect (developmental or other) and the length of exposure being evaluated (chronic or subchronic). Some of the SLs in these tables also use Agency for Toxic Substances and Disease Registry (ATSDR) chronic oral minimal risk levels (MRLs) as an oral chronic RfD. The HEAST RfDs used in these SLs were based upon then current EPA toxicity methodologies, but did not use the more recent benchmark dose or categorical regression methodologies. Chronic oral reference doses and ATSDR chronic oral MRLs are expressed in units of (mg/kg-day).

Chronic oral RfDs are specifically developed to be protective for long-term exposure to a compound. As a guideline for Superfund program risk assessments, chronic oral RfDs generally should be used to evaluate the potential noncarcinogenic effects associated with exposure periods greater than 7 years (approximately 10 percent of a human lifetime). However, this is not a bright line. Note, that ATSDR defines chronic exposure as greater than 1 year for use of their values.

2.3.2 Reference Concentrations

The current, or recently completed, EPA toxicity assessments used in these screening tables (IRIS and PPRTV assessments) define a reference concentration (RfC) as an estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime. It can be derived from a NOAEL, LOAEL, or benchmark concentration, or using categorical regression with uncertainty factors generally applied to reflect limitations of the data used. Various types of RfCs are available depending on the critical effect (developmental or other) and the length of exposure being evaluated (chronic or subchronic). These screening tables also use ATSDR chronic inhalation MRLs as a chronic RfC, intermediate inhalation MRLs as a subchronic RfC and California Environmental Protection Agency (chronic) Reference Exposure Levels (RELs) as chronic RfCs. These screening tables may also use some RfCs from EPA's HEAST tables.

The chronic inhalation reference concentration is generally used for continuous or near continuous inhalation exposures that occur for 7 years or more. However, this is not a bright line, and ATSDR chronic MRLs are based on exposures longer than 1 year. EPA chronic inhalation reference concentrations are expressed in units of (mg/m³). Cal EPA RELs are presented in µg/m³ and have been converted to mg/m³ for use in these screening tables. Some ATSDR inhalation MRLs are derived in parts per million (ppm) and some in mg/m³. For use in this table all were converted into mg/m³.

2.3.3 Slope Factors

A slope factor and the accompanying weight-of-evidence determination are the toxicity data most commonly used to evaluate potential human carcinogenic risks. Generally, the slope factor is a plausible upper-bound estimate of the probability of a response per unit intake of a chemical over a lifetime. The slope factor is used in risk assessments to estimate an upper-bound lifetime probability of an individual developing cancer as a result of exposure to a particular level of a potential carcinogen. Slope factors should always be accompanied by the weight-of-evidence classification to indicate the strength of the evidence that the agent is a human carcinogen.

Oral slope factors are toxicity values for evaluating the probability of an individual developing cancer from oral exposure to contaminant levels over a lifetime. Oral slope factors are expressed in units of (mg/kg-day)⁻¹. When available, oral slope factors from EPA's IRIS or PPRTV assessments are used. The ATSDR does not derive cancer toxicity values (e.g. slope factors or inhalation unit risks). Some oral slope factors used in these screening tables were derived by the California Environmental Protection Agency, whose methodologies are quite similar to those used by EPA's IRIS and PPRTV assessments. When oral slope factors are not available in IRIS, PPRTV or Cal EPA assessments, values from HEAST are used.

2.3.4 Inhalation Unit Risk

The IUR is defined as the upper-bound excess lifetime cancer risk estimated to result from continuous exposure to an agent at a concentration of 1 µg/m³ in air. Inhalation unit risk toxicity values are expressed in units of (mg/m³)⁻¹.

When available, inhalation unit risk values from EPA's IRIS or PPRTV assessments are used. The ATSDR does not derive cancer toxicity values (e.g. slope factors or inhalation unit risks). Some inhalation unit risk values used in these screening tables were derived by the California Environmental Protection Agency, whose methodologies are quite similar to those used by EPA's IRIS and PPRTV assessments. When inhalation unit risk values are not available in IRIS, PPRTV or Cal EPA assessments, values from HEAST are used.

2.3.5 Toxicity Equivalence Factors

Some chemicals are members of the same family and exhibit similar toxicological properties; however, they differ in the degree of toxicity. Therefore, a toxicity equivalence factor (TEF) must first be applied to adjust the measured concentrations to a toxicity equivalent concentration.

The following table contains the various dioxin-like toxicity equivalency factors for Dioxins, Furans and PCBs (Van den Berg et al. (2006)), which are the World Health Organization 2005 values.

Dioxin Toxicity Equivalence Factors

	Dioxins and Furans	TEF
Chlorinated dibenzo-p-dioxins		
	2,3,7,8-TCDD	1

	1,2,3,7,8-PeCDD	1	
	1,2,3,4,7,8-HxCDD	0.1	
	1,2,3,6,7,8-HxCDD	0.1	
	1,2,3,7,8,9-HxCDD	0.1	
	1,2,3,4,6,7,8-HpCDD	0.01	
	OCDD	0.0003	
Chlorinated dibenzofurans			
	2,3,7,8-TCDF	0.1	
	1,2,3,7,8-PeCDF	0.03	
	2,3,4,7,8-PeCDF	0.3	
	1,2,3,4,7,8-HxCDF	0.1	
	1,2,3,6,7,8-HxCDF	0.1	
	1,2,3,7,8,9-HxCDF	0.1	
	2,3,4,6,7,8-HxCDF	0.1	
	1,2,3,4,6,7,8-HpCDF	0.01	
	1,2,3,4,7,8,9-HpCDF	0.01	
	OCDF	0.0003	
PCBs			
	IUPAC No.	Structure	
Non-ortho	77	3,3',4,4'-TetraCB	0.0001
	81	3,4,4',5'-TetraCB	0.0003
	126	3,3',4,4',5'-PeCB	0.1
	169	3,3',4,4',5,5'-HxCB	0.03
Mono-ortho	105	2,3,3',4,4'-PeCB	0.00003
	114	2,3,4,4',5'-PeCB	0.00003
	118	2,3',4,4',5'-PeCB	0.00003
	123	2',3,4,4',5'-PeCB	0.00003
	156	2,3,3',4,4',5'-HxCB	0.00003
	157	2,3,3',4,4',5'-HxCB	0.00003
	167	2,3',4,4',5,5'-HxCB	0.00003
	189	2,3,3',4,4',5,5'-HpCB	0.00003
Di-ortho*	170	2,2',3,3',4,4',5'-HpCB	0.0001
	180	2,2',3,4,4',5,5'-HpCB	0.00001

* Di-ortho values come from Ahlborg, U.G., et al. (1994), which are the WHO 1994 values from Toxic equivalency factors for dioxin-like PCBs: Report on WHO-ECEH and IPCS consultation, December 1993 Chemosphere, Volume 28, Issue 6, March 1994, Pages 1049-1067.

Carcinogenic polycyclic aromatic hydrocarbons

Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons (EPA/600/R-93/089, July 1993), recommends that a toxicity equivalency factor (TEF) be used to convert concentrations of carcinogenic polycyclic aromatic hydrocarbons (cPAHs) to an equivalent concentration of benzo(a)pyrene when assessing the risks posed by these substances. These TEFs are based on the potency of each compound relative to that of benzo(a)pyrene. For the toxicity value database, these TEFs have been applied to the toxicity values. Although this is not in complete agreement with the direction in the aforementioned documents, this approach was used so that toxicity values could be generated for each cPAH. Additionally, it should be noted that computationally it makes little difference whether the TEFs are applied to the concentrations of cPAHs found in environmental samples or to the toxicity values as long as the TEFs are not applied to both. However, if the adjusted toxicity values are used, the user will need to sum the risks from all cPAHs as part of the risk assessment to derive a total risk from all cPAHs. A total risk from all cPAHs is what is derived when the TEFs are applied to the environmental concentrations of cPAHs and not to the toxicity values.

The following table presents the TEFs for cPAHs recommended in *Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons*.

Toxicity Equivalency Factors for Carcinogenic Polycyclic Aromatic Hydrocarbons

Compound	TEF
Benzo(a)pyrene	1.0
Benz(a)anthracene	0.1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Chrysene	0.001
Dibenz(a,h)anthracene	1.0
Indeno(1,2,3-c,d)pyrene	0.1

2.4 Chemical-specific Parameters

Several chemical specific parameters are needed for development of the SLs. Different hierarchies are used for organic and inorganic compounds.

2.4.1 Organic Compounds

- Values were taken from <http://www.epa.gov/opptintr/exposure/pubs/episuite.htm>. These programs estimate various chemical-specific properties. The calculations for these SL tables use the experimental values for a property over the estimated values.
- EPA Soil Screening Level (SSL) Exhibit C-1.
- WATER8, which has been replaced with WATER9.
- Syracuse Research Corporation (SRC). 2005. CHEMFATE Database. SRC. Syracuse, NY. Accessed July 2005.

- Syracuse Research Corporation (SRC). 2005. PHYSPROP Database. SRC. Syracuse, NY. Accessed July 2005.

2.4.2 Inorganic Compounds

For unitless Henry's Law (ammonia, chlorine, cyanogen, cyanogen chloride, hydrogen cyanide only):

- Syracuse Research Corporation (SRC). 2005. PHYSPROP Database. SRC. Syracuse, NY. (<http://www.syrres.com/esc/physdemo.htm>).
- Yaws' Handbook of Thermodynamic and Physical Properties of Chemical Compounds. Knovel, 2003. (<http://www.knovel.com>).

For Kd (soil-water partition coefficient):

- EPA Soil Screening Level (SSL) Table C.4 (<http://www.epa.gov/superfund/health/conmedia/soil/index.htm>).
- Baes, C.F. 1984. Oak Ridge National Laboratory. A Review and Analysis of Parameters for Assessing Transport of Environmentally Released Radionuclides through Agriculture. <http://homer.ornl.gov/baes/documents/ornl5786.html>. Values are also found in Superfund Chemical Data Matrix (SCDM) (<http://www.epa.gov/superfund/sites/npl/hrsres/tools/scdm.htm>).

For molecular weights:

- EPI (<http://www.epa.gov/oppt/exposure/pubs/episuite.htm>)
- Syracuse Research Corporation (SRC). 2005. PHYSPROP Database. SRC. Syracuse, NY. (<http://www.syrres.com/esc/physdemo.htm>).

For Vapor Pressure:

- NIOSH Pocket Guide to Chemical Hazards (NPG), NIOSH Publication No. 97-140, February 2004. (<http://www.cdc.gov/niosh/npg/npg.html>).
- 2) Syracuse Research Corporation (SRC). 2005. CHEMFATE Database. SRC. Syracuse, NY. (<http://www.syrres.com/esc/chemfate.htm>).
- Syracuse Research Corporation (SRC). 2005. PHYSPROP Database. SRC. Syracuse, NY. (<http://www.syrres.com/esc/physdemo.htm>).

For diffusivity in air and water, if desired at all, for the gasses and mercuric compounds:

- WATER 9, (EPA 2001). See section 4.9.2.

3. Using the SL Tables

The "[Generic Tables](#)" page provides generic concentrations in the absence of site-specific exposure assessments. These concentrations can be used for:

- Prioritizing multiple sites or operable units or areas of concern within a facility or exposure units
- Setting risk-based detection limits for contaminants of potential concern (COPCs)
- Focusing future site investigation and risk assessment efforts (e.g., selecting COPCs for the baseline risk assessment)
- Identifying contamination which may warrant cleanup
- Identifying sites, or portions of sites, which warrant no further action or investigation
- Initial cleanup goals when site-specific data are lacking

Generic SLs are provided for multiple exposure pathways and for chemicals with both carcinogenic and noncarcinogenic effects. A Summary Table is provided that contains SLs corresponding to either a 10^{-6} risk level for carcinogens or a Hazard Quotient (HQ) of 1 for non-carcinogens. The summary table identifies whether the SL is based on cancer or noncancer effects by including a "c" or "n" after the SL. The Supporting Tables provide SLs corresponding to a 10^{-6} risk level for carcinogens and an HQ of 1 for noncarcinogens. Site specific SLs corresponding to an HQ of less than 1 may be appropriate for those sites where multiple chemicals are present that have RfDs or RfCs based on the same toxic endpoint. Site specific SLs based upon a cancer risk greater than 10^{-6} can be calculated and may be appropriate based upon site specific considerations. However, caution is recommended to ensure that cumulative cancer risk for all actual and potential carcinogenic contaminants found at the site does not have a residual (after site cleanup, or when it has been determined that no site cleanup is required) cancer risk exceeding 10^{-4} . Also, changing the target risk or HI may change the balance between the cancer and noncancer endpoints. At some concentrations, the cancer-risk concerns predominate; at other concentrations, noncancer-HI concerns predominate. The user must take care to consider both when adjusting target risks and hazards.

Tables are provided in either MS Excel or in PDF format. The following lists the tables provided and a description of what is contained in each:

- Summary Table - provides a list of contaminants, toxicity vales, MCLs and the lesser (more protective) of the cancer and noncancer SLs for resident soil, industrial soil, resident air, industrial air and tapwater.
- Residential Soil Supporting Table - provides a list of contaminants, toxicity vales and the cancer and noncancer SLs for resident soil.
- Industrial Soil Supporting Table - provides a list of contaminants, toxicity vales and the cancer and noncancer SLs for industrial soil.
- Residential Air Supporting Table - provides a list of contaminants, toxicity vales and the cancer and noncancer SLs for resident air.
- Industrial Air Supporting Table - provides a list of contaminants, toxicity vales and the cancer and noncancer SLs for industrial air.
- Residential Tapwater Supporting Table - provides a list of contaminants, toxicity vales, MCLs and the cancer and noncancer SLs for tapwater.

3.1 Developing a Conceptual Site Model

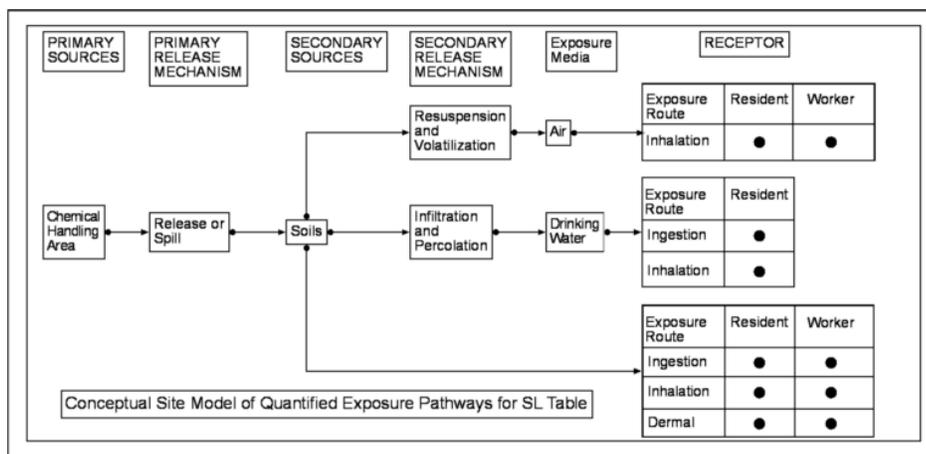
When using generic SLs at a site, the exposure pathways of concern and site conditions should match those used in developing the SLs presented here. (Note, however, that future uses may not match current uses. Future uses are potential site uses that may occur in the future. At Superfund sites, future uses should be considered as well as current uses. RAGS Part A, Chapter 6, provides guidance on selecting future-use receptors.) Thus, it is necessary to develop a conceptual site model (CSM) to identify likely contaminant source areas, exposure pathways, and potential receptors. This information can be used to determine the applicability of SLs at the site and the need for additional information. The final CSM diagram represents linkages among contaminant sources, release mechanisms, exposure pathways, and routes and receptors based on historical information. It summarizes the understanding of the contamination problem. A separate CSM for ecological receptors can be useful. Part 2 and Attachment A of the Soil Screening Guidance for Superfund: Users Guide (EPA 1996) contains the steps for developing a CSM.

As a final check, the CSM should address the following questions:

- Are there potential ecological concerns?
- Is there potential for land use other than those used in the SL calculations (i.e., residential and commercial/industrial)?
- Are there other likely human exposure pathways that were not considered in development of the SLs?
- Are there unusual site conditions (e.g. large areas of contamination, high fugitive dust levels, potential for indoor air contamination)?

The SLs and later PRGs may need to be adjusted to reflect the answers to these questions.

Below is a potential CSM of the quantified pathways addressed in the SL Tables.



3.2 Background

EPA may be concerned with two types of background at sites: naturally occurring and anthropogenic. Natural background is usually limited to metals whereas anthropogenic (i.e. human-made) "background" includes both organic and inorganic contaminants.

Please note that the SL tables, which are purely risk-based, may yield SLs lower than naturally occurring background concentrations of some chemicals in some areas. However, background considerations may be incorporated into the assessment and investigation of sites, as acknowledged in existing EPA guidance. Background levels should be addressed as they are for other contaminants at CERCLA sites. For further information see EPA's guidance [Role of Background in the CERCLA Cleanup Program \(PDF\)](#) (13 pp, 147K, [About PDF](#)), April 2002, (OSWER 9285.6-07P) and [Guidance for Comparing Background and Chemical Concentration in Soil for CERCLA Sites \(PDF\)](#) (89 pp, 126MB, [About PDF](#)), September 2002, (OSWER 9285.7-41).

Generally EPA does not clean up below natural background. In some cases, the predictive risk-based models generate SL concentrations that lie within or even below typical background concentrations for the same element or compound. Arsenic, aluminum, iron and manganese are common elements in soils that have background levels that may exceed risk-based SLs. This does not mean that these metals cannot be site-related, or that these metals should automatically be attributed to background. Attribution of chemicals to background is a site-specific decision; consult your regional risk assessor.

Where anthropogenic "background" levels exceed SLs and EPA has determined that a response action is necessary and feasible, EPA's goal will be to develop a comprehensive response to the widespread contamination. This will often require coordination with different authorities that have jurisdiction over the sources of contamination in the area.

3.3 Potential Problems

As with any risk based screening table or tool, the potential exists for misapplication. In most cases, this results from not understanding the intended use of the SLs or PRGs. In order to prevent misuse of the SLs, the following should be avoided:

- Applying SLs to a site without adequately developing a conceptual site model that identifies relevant exposure pathways and exposure scenarios.
- Not considering the effects from the presence of multiple contaminants, where appropriate.
- Use of the SLs as cleanup levels without adequate consideration of the other NCP remedy selection criteria on CERCLA sites.
- Use of SL as cleanup levels without verifying numbers with a toxicologist or regional risk assessor.
- Use of outdated SLs when tables have been superseded by more recent values.
- Not considering the effects of additivity when screening multiple chemicals.

- Applying inappropriate target risks or changing a cancer target risk without considering its effect on noncancer, or vice versa.
- Not performing additional screening for pathways not included in these SLs (e.g., vapor intrusion, fish consumption).
- Adjusting SLs upward by factors of 10 or 100 without consulting a toxicologist or regional risk assessor.

4. Technical Support Documentation

The SLs consider human exposure to individual contaminants in air, drinking water and soil. The equations and technical discussion are aimed at developing risk-based SLs or PRGs. The following text presents the land use equations and their exposure routes. Table 1 presents the definitions of the variables and their default values. Any alternative values or assumptions used in developing SLs on a site should be presented with supporting rationale in the decision document on CERCLA sites.

4.1 Residential Soil

4.1.1 Noncancer

The residential soil land use equation, presented here, contains the following exposure routes:

- incidental ingestion of soil,

$$SL_{\text{res-sol-nc-ing}} \text{ (mg/kg)} = \frac{THQ \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times ED_c \text{ (6 years)} \right) \times BW_c \text{ (15 Kg)}}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ED_c \text{ (6 year)} \times \frac{1}{RfD_o \left(\frac{\text{mg}}{\text{Kg-day}} \right)} \times IRS_c \left(\frac{200 \text{ mg}}{\text{day}} \right) \times \frac{10^{-6} \text{ Kg}}{1 \text{ mg}}}$$

- inhalation of particulates emitted from soil,

$$SL_{\text{res-sol-nc-inh}} \text{ (mg/kg)} = \frac{THQ \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times ED_c \text{ (6 years)} \right)}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ED_c \text{ (6 year)} \times ET_{rs} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \frac{1}{RfC \left(\frac{\text{mg}}{\text{m}^3} \right)} \times \left(\frac{1}{Vf_s \left(\frac{\text{m}^3}{\text{Kg}} \right)} + \frac{1}{PEF_w \left(\frac{\text{m}^3}{\text{Kg}} \right)} \right)}$$

- dermal contact with soil,

$$SL_{\text{res-sol-nc-der}} \text{ (mg/kg)} = \frac{THQ \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times ED_c \text{ (6 years)} \right) \times BW_c \text{ (15 Kg)}}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ED_c \text{ (6 year)} \times \frac{1}{\left(RfD_o \left(\frac{\text{mg}}{\text{Kg-day}} \right) \times GIABS \right)} \times SA_c \left(\frac{2800 \text{ cm}^2}{\text{day}} \right) \times AF_c \left(\frac{0.2 \text{ mg}}{\text{cm}^2} \right) \times ABS_d \times \frac{10^{-6} \text{ Kg}}{1 \text{ mg}}}$$

- Total.

$$SL_{\text{res-sol-nc-tot}} \text{ (mg/kg)} = \frac{1}{\frac{1}{SL_{\text{res-sol-nc-ing}}} + \frac{1}{SL_{\text{res-sol-nc-der}}} + \frac{1}{SL_{\text{res-sol-nc-inh}}}}$$

4.1.1 Carcinogenic

The residential soil land use equation, presented here, contains the following exposure routes:

- incidental ingestion of soil,

$$SL_{\text{res-sol-ca-ing}} \text{ (mg/kg)} = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right)}{CSF_o \left(\frac{\text{mg}}{\text{Kg-day}} \right)^{-1} \times EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times IFS_{\text{adj}} \left(\frac{114 \text{ mg-Year}}{\text{Kg-day}} \right) \times \left(\frac{10^{-6} \text{ Kg}}{\text{mg}} \right)}$$

where:

$$IFS_{\text{adj}} \left(\frac{114 \text{ mg-Year}}{\text{Kg-day}} \right) = \frac{ED_c \text{ (6 years)} \times IRS_c \left(\frac{200 \text{ mg}}{\text{day}} \right)}{BW_c \text{ (15 Kg)}} + \frac{ED_r - ED_c \text{ (24 years)} \times IRS_a \left(\frac{100 \text{ mg}}{\text{day}} \right)}{BW_a \text{ (70 Kg)}}$$

- inhalation of particulates emitted from soil,

$$SL_{\text{res-sol-ca-inh}} \text{ (mg/kg)} = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right)}{IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right) \times EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times \left(\frac{1}{Vf_s \left(\frac{\text{m}^3}{\text{Kg}} \right)} + \frac{1}{PEF_w \left(\frac{\text{m}^3}{\text{Kg}} \right)} \right) \times ED_r \text{ (30 years)} \times ET_{rs} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right)}$$

- dermal contact with soil,

$$SL_{\text{res-sol-ca-der}} \text{ (mg/kg)} = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right)}{\left(\frac{CSF_o \left(\frac{\text{mg}}{\text{Kg-day}} \right)^{-1}}{GIABS} \right) \times EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times DFS_{\text{adj}} \left(\frac{361 \text{ mg-Year}}{\text{Kg-day}} \right) \times ABS_d \times \left(\frac{10^{-6} \text{ Kg}}{\text{mg}} \right)}$$

where:

$$DFS_{\text{adj}} \left(\frac{361 \text{ mg-Year}}{\text{Kg-day}} \right) = \frac{ED_c \text{ (6 years)} \times SA_c \left(\frac{2800 \text{ cm}^2}{\text{day}} \right) \times AF_c \left(\frac{0.2 \text{ mg}}{\text{cm}^2} \right)}{BW_c \text{ (15 Kg)}} + \frac{ED_r - ED_c \text{ (24 years)} \times SA_a \left(\frac{5700 \text{ cm}^2}{\text{day}} \right) \times AF_a \left(\frac{0.07 \text{ mg}}{\text{cm}^2} \right)}{BW_a \text{ (70 Kg)}}$$

- Total.

$$SL_{\text{res-sol-ca-tot}} \text{ (mg/kg)} = \frac{1}{\frac{1}{SL_{\text{res-sol-ca-ing}}} + \frac{1}{SL_{\text{res-sol-ca-der}}} + \frac{1}{SL_{\text{res-sol-ca-inh}}}}$$

4.2.3 Mutagenic

The residential soil land use equation, presented here, contains the following exposure routes:

- incidental ingestion of soil,

$$SL_{\text{res-sol-mu-ing}} \text{ (mg/kg)} = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right)}{CSF_o \left(\frac{\text{mg}}{\text{Kg-day}} \right)^{-1} \times EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times IFSM_{\text{adj}} \left(\frac{489.5 \text{ mg-Year}}{\text{Kg-day}} \right) \times \left(\frac{10^{-6} \text{ Kg}}{\text{mg}} \right)}$$

where:

$$IFSM_{\text{adj}} \left(\frac{489.5 \text{ mg-Year}}{\text{Kg-day}} \right) = \frac{ED_{0-2} \text{ (yr)} \times IRS_c \left(\frac{200 \text{ mg}}{\text{day}} \right) \times 10}{BW_c \text{ (15 Kg)}} + \frac{ED_{2-6} \text{ (yr)} \times IRS_c \left(\frac{200 \text{ mg}}{\text{day}} \right) \times 3}{BW_c \text{ (15 Kg)}} + \frac{ED_{6-16} \text{ (yr)} \times IRS_a \left(\frac{100 \text{ mg}}{\text{day}} \right) \times 3}{BW_a \text{ (70 Kg)}} + \frac{ED_{16-30} \text{ (yr)} \times IRS_a \left(\frac{100 \text{ mg}}{\text{day}} \right) \times 1}{BW_a \text{ (70 Kg)}}$$

- inhalation of particulates emitted from soil,

$$SL_{\text{res-sol-mu-inh}} \text{ (mg/kg)} = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right)}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ET_{rs} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right) \times \left(\frac{ED_{0-2} \text{ (yrs)} \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times 10 + ED_{2-6} \text{ (yrs)} \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times 3}{ED_{6-16} \text{ (yrs)} \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times 3 + ED_{16-30} \text{ (yrs)} \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times 1} \right) \times \left(\frac{1}{VF_s \left(\frac{\text{m}^3}{\text{Kg}} \right)} + \frac{1}{PEF_w \left(\frac{\text{m}^3}{\text{Kg}} \right)} \right)}$$

- dermal contact with soil,

$$SL_{\text{res-sol-mu-der}} \text{ (mg/kg)} = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right)}{\left(\frac{CSF_o \left(\frac{\text{mg}}{\text{Kg-day}} \right)^{-1}}{GIABS} \right) \times EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times DFSM_{\text{adj}} \left(\frac{1445 \text{ mg-Year}}{\text{Kg-day}} \right) \times ABS_d \times \left(\frac{10^{-6} \text{ Kg}}{\text{mg}} \right)}$$

where:

$$DFSM_{\text{adj}} \left(\frac{1445 \text{ mg-Year}}{\text{Kg-day}} \right) = \frac{ED_{0-2} \text{ (yr)} \times AF_c \left(\frac{0.2 \text{ mg}}{\text{cm}^2} \right) \times SA_c \left(\frac{2800 \text{ cm}^2}{\text{day}} \right) \times 10}{BW_c \text{ (15 Kg)}} + \frac{ED_{2-6} \text{ (yr)} \times AF_c \left(\frac{0.2 \text{ mg}}{\text{cm}^2} \right) \times SA_c \left(\frac{2800 \text{ cm}^2}{\text{day}} \right) \times 3}{BW_c \text{ (15 Kg)}} + \frac{ED_{6-16} \text{ (yr)} \times AF_a \left(\frac{0.07 \text{ mg}}{\text{cm}^2} \right) \times SA_a \left(\frac{5700 \text{ cm}^2}{\text{day}} \right) \times 3}{BW_a \text{ (70 Kg)}} + \frac{ED_{16-30} \text{ (yr)} \times AF_a \left(\frac{0.07 \text{ mg}}{\text{cm}^2} \right) \times SA_a \left(\frac{5700 \text{ cm}^2}{\text{day}} \right) \times 1}{BW_a \text{ (70 Kg)}}$$

- Total.

$$SL_{\text{res-sol-mu-tot}} \text{ (mg/kg)} = \frac{1}{\frac{1}{SL_{\text{res-sol-mu-ing}}} + \frac{1}{SL_{\text{res-sol-mu-der}}} + \frac{1}{SL_{\text{res-sol-mu-inh}}}}$$

4.1.3 Vinyl Chloride - Carcinogenic

The residential soil land use equations, presented here, contain the following exposure routes:

- incidental ingestion of soil,

$$SL_{res-soil-ca-vc-ing} (mg/kg) = \frac{TR}{\left[\frac{CSF_o \left(\frac{mg}{kg-day} \right)^{-1} \times EF_r \left(\frac{350 \text{ days}}{year} \right) \times IF5_{adj} \left(\frac{114 \text{ mg-yr}}{kg-d} \right) \times \frac{10^{-6} \text{ Kg}}{1 \text{ mg}}}{AT \left(\frac{365 \text{ days}}{year} \right) \times LT (70 \text{ years})} \right] + \left[\frac{CSF_o \left(\frac{mg}{kg-day} \right)^{-1} \times IRS_c \left(\frac{200 \text{ mg}}{day} \right) \times \frac{10^{-6} \text{ Kg}}{1 \text{ mg}}}{BW_e (15 \text{ kg})} \right]}$$

- inhalation of particulates emitted from soil,

$$SL_{res-soil-ca-vc-inh} (mg/kg) = \frac{TR}{\left[\frac{IUR \left(\frac{\mu g}{m^3} \right)^{-1} \times EF \left(\frac{350 \text{ days}}{year} \right) \times ED (30 \text{ years}) \times ET_{rs} \left(\frac{24 \text{ hours}}{day} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \left(\frac{1000 \mu g}{mg} \right)}{AT \left(\frac{365 \text{ days}}{year} \right) \times LT (70 \text{ years}) \times VF \left(\frac{m^3}{kg} \right)} \right] + \left[\frac{IUR \left(\frac{\mu g}{m^3} \right)^{-1} \times \left(\frac{1000 \mu g}{mg} \right)}{VF \left(\frac{m^3}{kg} \right)} \right]}$$

- dermal contact with soil,

$$SL_{res-soil-ca-vc-der} (mg/kg) = \frac{TR}{\left[\frac{CSF_o \left(\frac{mg}{kg-day} \right)^{-1} \times EF_r \left(\frac{350 \text{ days}}{year} \right) \times DFS_{adj} \left(\frac{361 \text{ mg-yr}}{kg-day} \right) \times ABS_d \times \frac{10^{-6} \text{ Kg}}{1 \text{ mg}}}{AT_r \left(\frac{365 \text{ days}}{year} \right) \times LT (70 \text{ years})} \right] + \left[\frac{CSF_o \left(\frac{mg}{kg-day} \right)^{-1} \times SA_c \left(\frac{2800 \text{ cm}^2}{day} \right) \times AF_c \left(\frac{0.2 \text{ mg}}{\text{cm}^2} \right) \times ABS \times \frac{10^{-6} \text{ Kg}}{1 \text{ mg}}}{BW_e (15 \text{ kg})} \right]}$$

- Total.

$$SL_{res-soil-ca-vc-tot} (mg/kg) = \frac{1}{\frac{1}{SL_{res-soil-ca-vc-ing}} + \frac{1}{SL_{res-soil-ca-vc-der}} + \frac{1}{SL_{res-soil-ca-vc-inh}}}$$

A number of studies have shown that inadvertent ingestion of soil is common among children 6 years old and younger (Calabrese et al. 1989, Davis et al. 1990, Van Wijnen et al. 1990). Therefore, the dose method uses an age-adjusted soil ingestion factor that takes into account the difference in daily soil ingestion rates, body weights, and exposure duration for children from 1 to 6 years old and others from 7 to 30 years old. The equation is presented below. This health-protective approach is chosen to take into account the higher daily rates of soil ingestion in children as well as the longer duration of exposure that is anticipated for a long-term resident. For more on this method, see [RAGS Part B](#).

4.2 Composite Worker Soil

This landuse is for developing default screening levels.

4.2.1 Noncancer

The composite worker soil land use equation, presented here, contains the following exposure routes:

- incidental ingestion of soil,

$$SL_{w-sol-ca-ing} (mg/kg) = \frac{TR \times AT_{ow} \left(\frac{365 \text{ days}}{year} \times LT (70 \text{ years}) \right) \times BW_{ow} (70 \text{ Kg})}{EF_{iw} \left(\frac{250 \text{ days}}{year} \right) \times ED_{ow} (25 \text{ years}) \times CSF_o \left(\frac{mg}{kg-day} \right)^{-1} \times IR_{ow} \left(\frac{100 \text{ mg}}{day} \right) \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- inhalation of particulates emitted from soil,

$$SL_{w-sol-ca-inh} (mg/kg) = \frac{TR \times AT_{ow} \left(\frac{365 \text{ days}}{year} \times LT (70 \text{ years}) \right)}{EF_{iw} \left(\frac{250 \text{ days}}{year} \right) \times ED_{ow} (25 \text{ years}) \times ET_{ws} \left(\frac{8 \text{ hours}}{day} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times IUR \left(\frac{\mu g}{m^3} \right)^{-1} \times \left(\frac{1000 \mu g}{mg} \right) \times \left[\frac{1}{VF_s \left(\frac{m^3}{kg} \right)} + \frac{1}{PEF_w \left(\frac{m^3}{kg} \right)} \right]}$$

- dermal exposure,

$$SL_{w-sol-ca-der} (mg/kg) = \frac{TR \times AT_{ow} \left(\frac{365 \text{ days}}{year} \times LT (70 \text{ years}) \right) \times BW_{ow} (70 \text{ Kg})}{EF_{iw} \left(\frac{250 \text{ days}}{year} \right) \times ED_{ow} (25 \text{ years}) \times \left[\frac{CSF_o \left(\frac{mg}{kg-day} \right)^{-1}}{GIABS} \right] \times SA_{ow} \left(\frac{3300 \text{ cm}^2}{day} \right) \times AF_{ow} \left(\frac{0.2 \text{ mg}}{\text{cm}^2} \right) \times ABS_d \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- Total.

$$SL_{w-sol-ca-tot} (mg/kg) = \frac{1}{\frac{1}{SL_{w-sol-ca-ing}} + \frac{1}{SL_{w-sol-ca-der}} + \frac{1}{SL_{w-sol-ca-inh}}}$$

4.2.2 Carcinogenic

The composite worker soil land use equation, presented here, contains the following exposure routes:

- incidental ingestion of soil,

$$SL_{w-sol-nc-ing} \text{ (mg/kg)} = \frac{THQ \times AT_{ow} \left(\frac{365 \text{ days}}{\text{year}} \times ED_{ow} \text{ (25 years)} \right) \times BW_{ow} \text{ (70 Kg)}}{EF_{iw} \left(250 \frac{\text{days}}{\text{year}} \right) \times ED_{ow} \text{ (25 years)} \times \frac{1}{RfD_o \left(\frac{\text{mg}}{\text{kg-day}} \right)} \times IR_{ow} \left(\frac{100 \text{ mg}}{\text{day}} \right) \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- inhalation of particulates emitted from soil,

$$SL_{w-sol-nc-inh} \text{ (mg/kg)} = \frac{THQ \times AT_{ow} \left(\frac{365 \text{ days}}{\text{year}} \times ED_{ow} \text{ (25 years)} \right)}{EF_{iw} \left(250 \frac{\text{days}}{\text{year}} \right) \times ED_{ow} \text{ (25 years)} \times ET_{ws} \left(\frac{8 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \frac{1}{RfC \left(\frac{\text{mg}}{\text{m}^3} \right)} \times \left(\frac{1}{VF_s \left(\frac{\text{m}^3}{\text{kg}} \right)} + \frac{1}{PEF_w \left(\frac{\text{m}^3}{\text{kg}} \right)} \right)}$$

- dermal exposure,

$$SL_{w-sol-nc-der} \text{ (mg/kg)} = \frac{THQ \times AT_{ow} \left(\frac{365 \text{ days}}{\text{year}} \times ED_{ow} \text{ (25 years)} \right) \times BW_{ow} \text{ (70 Kg)}}{EF_{iw} \left(250 \frac{\text{days}}{\text{year}} \right) \times ED_{ow} \text{ (25 years)} \times \frac{1}{RfD_o \left(\frac{\text{mg}}{\text{kg-day}} \right)} \times GI_{ABS} \times SA_{ow} \left(\frac{3300 \text{ cm}^2}{\text{day}} \right) \times AF_{ow} \left(\frac{0.2 \text{ mg}}{\text{cm}^2} \right) \times ABS_d \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- Total.

$$SL_{w-sol-nc-tot} \text{ (mg/kg)} = \frac{1}{\frac{1}{SL_{w-sol-nc-ing}} + \frac{1}{SL_{w-sol-nc-der}} + \frac{1}{SL_{w-sol-nc-inh}}}$$

4.3 Indoor Worker Soil

The indoor worker soil land use is not provided in the Generic Tables but SLs can be created by using the Calculator to modify the exposure parameters for the composite worker to match the equations that follow.

4.3.1 Noncancer

The indoor worker soil land use equation, presented here, contains the following exposure routes:

- incidental ingestion of soil,

$$SL_{iw-nc-ing} \text{ (mg/kg)} = \frac{THQ \times AT_{iw} \left(\frac{365 \text{ days}}{\text{year}} \times ED_{iw} \text{ (25 years)} \right) \times BW_{iw} \text{ (70 Kg)}}{EF_{iw} \left(250 \frac{\text{days}}{\text{year}} \right) \times ED_{iw} \text{ (25 years)} \times \frac{1}{RfD_o \left(\frac{\text{mg}}{\text{kg-day}} \right)} \times IR_{iw} \left(\frac{50 \text{ mg}}{\text{day}} \right) \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- inhalation of particulates emitted from soil,

$$SL_{iw-nc-inh} \text{ (mg/kg)} = \frac{THQ \times AT_{iw} \left(\frac{365 \text{ days}}{\text{year}} \times ED_{iw} \text{ (25 years)} \right)}{EF_{iw} \left(250 \frac{\text{days}}{\text{year}} \right) \times ED_{iw} \text{ (25 years)} \times ET_{ws} \left(\frac{8 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \frac{1}{RfC \left(\frac{\text{mg}}{\text{m}^3} \right)} \times \left(\frac{1}{VF_s \left(\frac{\text{m}^3}{\text{kg}} \right)} + \frac{1}{PEF_w \left(\frac{\text{m}^3}{\text{kg}} \right)} \right)}$$

- Total.

$$SL_{iw-nc-tot} \text{ (mg/kg)} = \frac{1}{\frac{1}{SL_{iw-nc-ing}} + \frac{1}{SL_{iw-nc-inh}}}$$

4.3.2 Carcinogenic

The indoor worker soil land use equation, presented here, contains the following exposure routes:

- incidental ingestion of soil,

$$SL_{iw-ca-ing} \text{ (mg/kg)} = \frac{TR \times AT_{iw} \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right) \times BW_{iw} \text{ (70 Kg)}}{EF_{iw} \left(250 \frac{\text{days}}{\text{year}} \right) \times ED_{iw} \text{ (25 years)} \times CSF_o \left(\frac{\text{mg}}{\text{kg-day}} \right)^{-1} \times IR_{iw} \left(\frac{50 \text{ mg}}{\text{day}} \right) \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- inhalation of particulates emitted from soil,

$$SL_{iw-ca-inh} \text{ (mg/kg)} = \frac{TR \times AT_{iw} \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right)}{EF_{iw} \left(250 \frac{\text{days}}{\text{year}} \right) \times ED_{iw} \text{ (25 years)} \times ET_{ws} \left(\frac{8 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right) \times \left(\frac{1}{VF_s \left(\frac{\text{m}^3}{\text{kg}} \right)} + \frac{1}{PEF_w \left(\frac{\text{m}^3}{\text{kg}} \right)} \right)}$$

- Total.

$$SL_{iw-ca-tot} \text{ (mg/kg)} = \frac{1}{\frac{1}{SL_{iw-ca-ing}} + \frac{1}{SL_{iw-ca-inh}}}$$

4.4 Outdoor Worker Soil

The outdoor worker soil land use is not provided in the Generic Tables but SLs can be created by using the Calculator to modify the exposure parameters for the composite worker to match the equations that follow.

4.4.1 Noncancer

The outdoor worker soil land use equation, presented here, contains the following exposure routes:

- incidental ingestion of soil,

$$SL_{ow-sol-ca-ing} \text{ (mg/kg)} = \frac{TR \times AT_{ow} \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right) \times BW_{ow} \text{ (70 Kg)}}{EF_{ow} \left(225 \frac{\text{days}}{\text{year}} \right) \times ED_{ow} \text{ (25 years)} \times CSF_o \left(\frac{\text{mg}}{\text{kg-day}} \right)^{-1} \times IR_{ow} \left(100 \frac{\text{mg}}{\text{day}} \right) \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- inhalation of particulates emitted from soil,

$$SL_{ow-sol-ca-inh} \text{ (mg/kg)} = \frac{TR \times AT_{ow} \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right)}{EF_{ow} \left(225 \frac{\text{days}}{\text{year}} \right) \times ED_{ow} \text{ (25 years)} \times ET_{ws} \left(\frac{8 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right) \times \left(\frac{1}{VF_s \left(\frac{\text{m}^3}{\text{kg}} \right)} + \frac{1}{PEF_w \left(\frac{\text{m}^3}{\text{kg}} \right)} \right)}$$

- dermal exposure,

$$SL_{ow-sol-ca-der} \text{ (mg/kg)} = \frac{TR \times AT_{ow} \left(\frac{365 \text{ days}}{\text{year}} \times LT \text{ (70 years)} \right) \times BW_{ow} \text{ (70 Kg)}}{EF_{ow} \left(225 \frac{\text{days}}{\text{year}} \right) \times ED_{ow} \text{ (25 years)} \times \left(\frac{CSF_o \left(\frac{\text{mg}}{\text{kg-day}} \right)^{-1}}{GIABS} \right) \times SA_{ow} \left(3300 \frac{\text{cm}^2}{\text{day}} \right) \times AF_{ow} \left(\frac{0.2 \text{ mg}}{\text{cm}^2} \right) \times ABS_d \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- Total.

$$SL_{ow-sol-ca-tot} \text{ (mg/kg)} = \frac{1}{\frac{1}{SL_{ow-sol-ca-ing}} + \frac{1}{SL_{ow-sol-ca-der}} + \frac{1}{SL_{ow-sol-ca-inh}}}$$

4.4.2 Carcinogenic

The outdoor worker soil land use equation, presented here, contains the following exposure routes:

- incidental ingestion of soil,

$$SL_{ow-sol-nc-ing} \text{ (mg/kg)} = \frac{THQ \times AT_{ow} \left(\frac{365 \text{ days}}{\text{year}} \times ED_{ow} \text{ (25 years)} \right) \times BW_{ow} \text{ (70 Kg)}}{EF_{ow} \left(225 \frac{\text{days}}{\text{year}} \right) \times ED_{ow} \text{ (25 years)} \times \frac{1}{RfD_o \left(\frac{\text{mg}}{\text{kg-day}} \right)} \times IR_{ow} \left(100 \frac{\text{mg}}{\text{day}} \right) \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- inhalation of particulates emitted from soil,

$$SL_{ow-sol-nc-inh} \text{ (mg/kg)} = \frac{THQ \times AT_{ow} \left(\frac{365 \text{ days}}{\text{year}} \times ED_{ow} \text{ (25 years)} \right)}{EF_{ow} \left(225 \frac{\text{days}}{\text{year}} \right) \times ED_{ow} \text{ (25 years)} \times ET_{ws} \left(\frac{8 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \frac{1}{RfC \left(\frac{\text{mg}}{\text{m}^3} \right)} \times \left(\frac{1}{VF_s \left(\frac{\text{m}^3}{\text{kg}} \right)} + \frac{1}{PEF_w \left(\frac{\text{m}^3}{\text{kg}} \right)} \right)}$$

- dermal exposure,

$$SL_{ow-sol-nc-der} \text{ (mg/kg)} = \frac{THQ \times AT_{ow} \left(\frac{365 \text{ days}}{\text{year}} \times ED_{ow} \text{ (25 years)} \right) \times BW_{ow} \text{ (70 Kg)}}{EF_{ow} \left(225 \frac{\text{days}}{\text{year}} \right) \times ED_{ow} \text{ (25 years)} \times \left(\frac{1}{RfD_o \left(\frac{\text{mg}}{\text{kg-day}} \right) \times GIABS} \right) \times SA_{ow} \left(3300 \frac{\text{cm}^2}{\text{day}} \right) \times AF_{ow} \left(\frac{0.2 \text{ mg}}{\text{cm}^2} \right) \times ABS_d \times \left(\frac{10^{-6} \text{ Kg}}{1 \text{ mg}} \right)}$$

- Total.

$$SL_{\text{ow-sol-nc-tot}} (\text{mg/kg}) = \frac{1}{\frac{1}{SL_{\text{ow-sol-nc-ing}}} + \frac{1}{SL_{\text{ow-sol-nc-der}}} + \frac{1}{SL_{\text{ow-sol-nc-inh}}}}$$

4.5 Tapwater

The Tapwater calculations do not include the dermal exposure route. It was determined that too many analytes were outside of the EPA Superfund Dermal Risk Assessment Guidance (RAGS Part E)'s Effective Predictive Domain (EPD) to include a dermal permeability constant (K_p). Some of these were significant analytes, such as persistent chlorinated organics, including PCBs. K_p can be determined from the molecular weight and the logKow for organic compounds. Compounds with very high log Kows are outside of the EPD. Section 3.1.2 of RAGS Part E provides more detail.

4.5.1 Noncarcinogenic

The tapwater land use equation, presented here, contains the following exposure routes:

- ingestion of water,

$$SL_{\text{water-nc-ing}} (\mu\text{g/L}) = \frac{\text{THQ} \times \text{AT}_r \left(\frac{365 \text{ days}}{\text{year}} \times \text{ED}_r (30 \text{ years}) \right) \times \text{BW}_a (70 \text{ Kg}) \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right)}{\text{EF}_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times \text{ED}_r (30 \text{ years}) \times \frac{1}{\text{RfD}_o \left(\frac{\text{mg}}{\text{kg-d}} \right)} \times \text{IRW}_a \left(\frac{2 \text{ L}}{\text{day}} \right)}$$

- inhalation of volatiles,

$$SL_{\text{water-nc-inh}} (\mu\text{g/L}) = \frac{\text{THQ} \times \text{AT}_r \left(\frac{365 \text{ days}}{\text{year}} \times \text{ED}_r (30 \text{ years}) \right) \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right)}{\text{EF}_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times \text{ED}_r (30 \text{ years}) \times \text{ET}_{\text{rw}} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \frac{1}{\text{RFC} \left(\frac{\text{mg}}{\text{m}^3} \right)} \times \text{K} \left(\frac{0.5 \text{ L}}{\text{m}^3} \right)}$$

- Total.

$$SL_{\text{water-nc-tot}} (\mu\text{g/L}) = \frac{1}{\frac{1}{SL_{\text{water-nc-ing}}} + \frac{1}{SL_{\text{water-nc-inh}}}}$$

4.5.2 Carcinogenic

The tapwater land use equation, presented here, contains the following exposure routes:

- ingestion of water,

$$SL_{\text{water-ca-ing}} (\mu\text{g/L}) = \frac{\text{TR} \times \text{AT}_r \left(\frac{365 \text{ days}}{\text{year}} \times \text{LT} (70 \text{ years}) \right) \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right)}{\text{EF}_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times \text{CSF}_o \left(\frac{\text{mg}}{\text{kg-day}} \right)^{-1} \times \left(\text{IFW}_{\text{adj}} \left(\frac{1.086 \text{ L-Year}}{\text{Kg-day}} \right) \right)}$$

where:

$$\text{IFW}_{\text{adj}} \left(\frac{1.086 \text{ L-Year}}{\text{Kg-day}} \right) = \frac{\text{ED}_c (6 \text{ years}) \times \text{IRW}_c \left(\frac{1 \text{ L}}{\text{day}} \right)}{\text{BW}_c (15 \text{ Kg})} + \frac{\text{ED}_r - \text{ED}_c (24 \text{ years}) \times \text{IRW}_a \left(\frac{2 \text{ L}}{\text{day}} \right)}{\text{BW}_a (70 \text{ Kg})}$$

- inhalation of volatiles,

$$SL_{\text{water-ca-inh}} (\mu\text{g/L}) = \frac{\text{TR} \times \text{AT}_r \left(\frac{365 \text{ days}}{\text{year}} \times \text{LT} (70 \text{ years}) \right)}{\text{EF}_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times \text{ED}_r (30 \text{ years}) \times \text{ET}_{\text{rw}} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \text{IUR} \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times \text{K} \left(\frac{0.5 \text{ L}}{\text{m}^3} \right)}$$

- Total.

$$SL_{\text{water-ca-tot}} (\mu\text{g/L}) = \frac{1}{\frac{1}{SL_{\text{water-ca-ing}}} + \frac{1}{SL_{\text{water-ca-inh}}}}$$

4.5.3 Mutagenic

The tapwater land use equation, presented here, contains the following exposure routes:

- ingestion of water,

$$SL_{\text{water-mu-ing}} (\mu\text{g/L}) = \frac{\text{TR} \times \text{AT}_r \left(\frac{365 \text{ days}}{\text{year}} \times \text{LT} (70 \text{ years}) \right) \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right)}{\text{CSF}_o \left(\frac{\text{mg}}{\text{Kg-day}} \right)^{-1} \times \text{EF}_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times \text{IFWM}_{\text{adj}} \left(\frac{3.39 \text{ L-Year}}{\text{Kg-day}} \right)}$$

where:

$$\text{IFWM}_{\text{adj}} \left(\frac{3.39 \text{ L-Year}}{\text{Kg-day}} \right) = \frac{\text{ED}_{0-2} (\text{yr}) \times \text{IRW}_c \left(\frac{1 \text{ L}}{\text{day}} \right) \times 10}{\text{BW}_c (15 \text{ Kg})} + \frac{\text{ED}_{2-6} (\text{yr}) \times \text{IRW}_c \left(\frac{1 \text{ L}}{\text{day}} \right) \times 3}{\text{BW}_c (15 \text{ Kg})} + \frac{\text{ED}_{6-16} (\text{yr}) \times \text{IRW}_a \left(\frac{2 \text{ L}}{\text{day}} \right) \times 3}{\text{BW}_a (70 \text{ Kg})} + \frac{\text{ED}_{16-30} (\text{yr}) \times \text{IRW}_a \left(\frac{2 \text{ L}}{\text{day}} \right) \times 1}{\text{BW}_a (70 \text{ Kg})}$$

- inhalation of volatiles,

$$SL_{\text{water-mu-inh}} (\mu\text{g/L}) = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT (70 \text{ years}) \right)}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times K \left(\frac{0.5 \text{ L}}{\text{m}^3} \right) \times ET_{\text{rw}} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \left(\left(ED_{0-2} (\text{yrs}) \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times 10 \right) + \left(ED_{2-6} (\text{yrs}) \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times 3 \right) + \left(ED_{6-16} (\text{yrs}) \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times 3 \right) + \left(ED_{16-30} (\text{yrs}) \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times 1 \right) \right)}$$

- Total.

$$SL_{\text{water-mu-tot}} (\mu\text{g/L}) = \frac{1}{\frac{1}{SL_{\text{water-mu-ing}}} + \frac{1}{SL_{\text{water-mu-inh}}}}$$

4.5.4 Vinyl Chloride - Carcinogenic

The tapwater land use equation, presented here, contains the following exposure routes:

- ingestion of water,

$$SL_{\text{res-water-ca-vc-ing}} (\mu\text{g/L}) = \frac{TR}{\left(\frac{CSF_o \left(\frac{\text{mg}}{\text{kg-day}} \right)^{-1} \times EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times IFW_{\text{adj}} \left(\frac{1.086 \text{ L-yr}}{\text{kg-day}} \right) \times \left(\frac{\text{mg}}{1000 \mu\text{g}} \right)}{AT \left(\frac{365 \text{ days}}{\text{year}} \right) \times LT (70 \text{ years})} \right) + \left(\frac{CSF_o \left(\frac{\text{mg}}{\text{kg-day}} \right)^{-1} \times IRW_c \left(\frac{1 \text{ L}}{\text{day}} \right) \times \left(\frac{\text{mg}}{1000 \mu\text{g}} \right)}{BW_c (15 \text{ kg})} \right)}$$

- inhalation of volatiles,

$$SL_{\text{res-water-ca-vc-inh}} (\mu\text{g/L}) = \frac{TR}{\left(\frac{IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ED (30 \text{ years}) \times ET_{\text{rw}} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times K \left(\frac{0.5 \text{ L}}{\text{m}^3} \right)}{AT \left(\frac{365 \text{ days}}{\text{year}} \right) \times LT (70 \text{ years})} \right) + \left(IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1} \times K \left(\frac{0.5 \text{ L}}{\text{m}^3} \right) \right)}$$

- Total.

$$SL_{\text{res-water-ca-vc-tot}} (\mu\text{g/L}) = \frac{1}{\frac{1}{SL_{\text{res-water-ca-vc-ing}}} + \frac{1}{SL_{\text{res-water-ca-vc-inh}}}}$$

4.6 Resident Ambient Air

4.6.1 Noncarcinogenic

The Ambient air land use equation, presented here, contains the following exposure routes:

- inhalation of volatiles

$$SL_{\text{res-air-nc}} (\mu\text{g/m}^3) = \frac{THQ \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times ED_r (30 \text{ years}) \right) \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right)}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ED_r (30 \text{ years}) \times ET_{\text{ra}} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \frac{1}{RFC \left(\frac{\text{mg}}{\text{m}^3} \right)}}$$

4.6.2 Carcinogenic

The Ambient air land use equation, presented here, contains the following exposure routes:

- inhalation of volatiles

$$SL_{\text{res-air-ca}} (\mu\text{g/m}^3) = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT (70 \text{ years}) \right)}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ED_r (30 \text{ years}) \times ET_{\text{ra}} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times IUR \left(\frac{\mu\text{g}}{\text{m}^3} \right)^{-1}}$$

4.6.3 Vinyl Chloride - Carcinogenic

The Ambient air land use equation, presented here, contains the following exposure routes:

- inhalation of volatiles

$$SL_{\text{res-air-ca-vinyl chloride}} (\mu\text{g}/\text{m}^3) = \frac{TR}{IUR (\mu\text{g}/\text{m}^3)^{-1} + \left(\frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT (70 \text{ years}) \right)}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ET_{ra} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right)} \right)}$$

4.6.4 Mutagenic

The Ambient air land use equation, presented here, contains the following exposure routes:

- inhalation of volatiles

$$SL_{\text{res-air-mu}} (\mu\text{g}/\text{m}^3) = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT (70 \text{ years}) \right)}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ET_{ra} \left(\frac{24 \text{ hours}}{\text{day}} \right) \times \left(\frac{1 \text{ day}}{24 \text{ hours}} \right) \times \left(\left(ED_{0-2} (\text{yrs}) \times IUR (\mu\text{g}/\text{m}^3)^{-1} \times 10 \right) + \left(ED_{2-6} (\text{yrs}) \times IUR (\mu\text{g}/\text{m}^3)^{-1} \times 3 \right) + \left(ED_{6-16} (\text{yrs}) \times IUR (\mu\text{g}/\text{m}^3)^{-1} \times 3 \right) + \left(ED_{16-30} (\text{yrs}) \times IUR (\mu\text{g}/\text{m}^3)^{-1} \times 1 \right) \right)}$$

4.7 Worker Ambient Air

4.7.1 Noncarcinogenic

The Ambient air land use equation, presented here, contains the following exposure routes:

- Inhalation of volatiles

$$SL_{\text{w-air-nc}} (\mu\text{g}/\text{m}^3) = \frac{THQ \times AT_w \left(\frac{365 \text{ days}}{\text{year}} \times ED_r (25 \text{ years}) \right) \times \left(\frac{1000 \mu\text{g}}{\text{mg}} \right)}{EF_w \left(\frac{250 \text{ days}}{\text{year}} \right) \times ED_w (25 \text{ years}) \times ET_w \left(\frac{8 \text{ hr}}{24 \text{ hr}} \right) \times \frac{1}{RfC (\text{mg}/\text{m}^3)}}$$

4.7.2 Carcinogenic

The Ambient air land use equation, presented here, contains the following exposure routes:

- Inhalation of volatiles

$$SL_{\text{w-air-ca}} (\mu\text{g}/\text{m}^3) = \frac{TR \times AT_w \left(\frac{365 \text{ days}}{\text{year}} \times LT (70 \text{ years}) \right)}{EF_w \left(\frac{250 \text{ days}}{\text{year}} \right) \times ED_w (25 \text{ years}) \times ET_w \left(\frac{8 \text{ hr}}{24 \text{ hr}} \right) \times IUR (\mu\text{g}/\text{m}^3)^{-1}}$$

4.8 Ingestion of Fish

The ingestion of fish exposure route is not provided in the Generic Tables but SLs can be created by using the Calculator and the equations that follow:

4.8.1 Noncarcinogenic

The ingestion of fish equation, presented here, contains the following exposure route:

- consumption of fish.

$$SL_{\text{res-fsh-nc-ing}} (\text{mg}/\text{kg}) = \frac{THQ \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times ED_c (30 \text{ years}) \right) \times BW_a (70 \text{ Kg})}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ED_c (30 \text{ year}) \times \frac{1}{RfD_o \left(\frac{\text{mg}}{\text{Kg-day}} \right)} \times IRF_a \left(\frac{5.4 \times 10^4 \text{ mg}}{\text{day}} \right) \times \frac{10^{-6} \text{ Kg}}{1 \text{ mg}}}$$

4.8.2 Carcinogenic

The ingestion of fish equation, presented here, contains the following exposure route:

- consumption of fish.

$$SL_{\text{res-fsh-ca-ing}} (\text{mg}/\text{kg}) = \frac{TR \times AT_r \left(\frac{365 \text{ days}}{\text{year}} \times LT (70 \text{ years}) \right) \times BW_a (70 \text{ Kg})}{EF_r \left(\frac{350 \text{ days}}{\text{year}} \right) \times ED_c (30 \text{ year}) \times CSF_o \left(\frac{\text{mg}}{\text{Kg-day}} \right)^{-1} \times IRF_a \left(\frac{5.4 \times 10^4 \text{ mg}}{\text{day}} \right) \times \frac{10^{-6} \text{ Kg}}{1 \text{ mg}}}$$

Note: the consumption rate for fish is not age adjusted for this land use. Also the SL calculated for fish is not for soil, like for the agricultural land uses, but is for fish tissue.

4.9 Soil to Groundwater

These equations are used to calculate screening levels in soil (SSLs) that are protective of groundwater. SSLs are either back-calculated from protective risk-based ground water concentrations or based on MCLs. The SSLs were designed for use during the early stages of a site evaluation when information about subsurface conditions may be limited. Because of this constraint, the equations used are based on conservative, simplifying assumptions about the release and transport of contaminants in the subsurface. Migration of contaminants from soil to groundwater can be envisioned as a two-stage process: (1) release of contaminant in soil leachate and (2) transport of the contaminant through the underlying soil and aquifer to a receptor well. The SSL methodology considers both of these fate and transport mechanisms.

SSLs are provided for metals in the Generic Tables based on K_ds from the [Soil Screening Guidance Exhibit C-4](#). According to Appendix C,

"Exhibit C-4 provides pH-specific soil-water partition coefficients (K_d) for metals. Site-specific soil pH measurements can be used to select appropriate K_d values for these metals. Where site-specific soil pH values are not available, values corresponding to a pH of 6.8 should be used."

Because K_ds vary greatly by soil type, it is highly recommended that site-specific K_ds be determined and used to develop SSLs.

The more protective of the carcinogenic and noncarcinogenic SLs is selected to calculate the SSL.

4.9.1 Noncarcinogenic Tapwater Equations for SSLs

The tapwater equations, presented in Section 4.4.1, are used to calculate the noncarcinogenic SSLs for volatiles and nonvolatiles. If the contaminant is a volatile, both ingestion and inhalation exposure routes are considered. If the contaminant is not a volatile, only ingestion is considered.

4.9.2 Carcinogenic Tapwater Equations for SSLs

The tapwater equations, presented in Section 4.4.2, are used to calculate the carcinogenic SSLs for volatiles and nonvolatiles. Sections 4.4.3 and 4.4.4 present the mutagenic and vinyl chloride equations, respectively. If the contaminant is a volatile, both ingestion and inhalation exposure routes are considered. If the contaminant is not a volatile, only ingestion is considered.

4.9.3 Method 1 for SSL Determination

Method 1 employs a partitioning equation for migration to groundwater and defaults are provided. This method is used to generate the download default tables.

- method 1.

$$SSL \left(\frac{mg}{kg} \right) = C_w \left(\frac{mg}{L} \right) \times \left[K_d \left(\frac{L}{kg} \right) + \frac{\left(\theta_w \left(\frac{L_{water}}{L_{soil}} \right) + \theta_a \left(\frac{L_{air}}{L_{soil}} \right) \times H' \right)}{\rho_b \left(\frac{1.5 \text{ kg}}{L} \right)} \right]$$

where:

$$\theta_a \left(\frac{L_{air}}{L_{soil}} \right) = n \left(\frac{L_{water}}{L_{soil}} \right) - \theta_w \left(\frac{0.3 L_{water}}{L_{soil}} \right);$$

$$n \left(\frac{L_{pore}}{L_{soil}} \right) = 1 - \left(\frac{\rho_b \left(\frac{1.5 \text{ kg}}{L} \right)}{\rho_s \left(\frac{2.65 \text{ kg}}{L} \right)} \right) \text{ and}$$

$$K_d \left(\frac{L}{kg} \right) = K_{oc} \left(\frac{L}{kg} \right) \times f_{oc} \text{ (0.002 unitless)}$$

4.9.4 Method 2 for SSL Determination

Method 2 employs a mass-limit equation for migration to groundwater and site-specific information is required. This method can be used in the calculator portion of this website.

- method 2.

$$SSL \left(\frac{mg}{kg} \right) = \frac{C_w \left(\frac{mg}{L} \right) \times I \left(\frac{0.18 \text{ m}}{\text{year}} \right) \times ED \text{ (70 years)}}{\rho_b \left(\frac{1.5 \text{ kg}}{L} \right) \times d_s \text{ (m)}}$$

4.9.5 Determination of the Dilution Factor

The SSL values in the download tables are based on a dilution factor of 1. The dilution factor default for the calculator is 20 for 0.5 acre source. If all of the parameters needed to calculate a site-specific dilution factor are known, they may be entered.

- dilution factor.

$$\text{Dilution Attenuation Factor} = 1 + \frac{K \left(\frac{m}{\text{year}} \right) \times i \left(\frac{m}{m} \right) \times d \text{ (m)}}{I \left(\frac{0.18 \text{ m}}{\text{year}} \right) \times L \text{ (m)}}$$

where:

$$d \text{ (m)} = \left(0.0112 \times L^2 \text{ (m)} \right)^{0.5} + d_a \times \left[1 - \exp \left(\frac{-L \text{ (m)} \times I \left(\frac{m}{\text{year}} \right)}{K \left(\frac{m}{\text{year}} \right) \times i \left(\frac{m}{m} \right) \times d_a \text{ (m)}} \right) \right]$$

4.10 Supporting Equations and Parameter Discussion

There are two parts of the above land use equations that require further explanation. They are the inhalation variables: the particulate emission factor (PEF) and the volatilization factor (VF).

4.10.1 Particulate Emission Factor (PEF)

Inhalation of contaminants adsorbed to respirable particles (PM10) was assessed using a default PEF equal to 1.36×10^9 m³/kg. This equation relates the contaminant concentration in soil with the concentration of respirable particles in the air due to fugitive dust emissions from contaminated soils. The generic PEF was derived using default values that correspond to a receptor point concentration of approximately 0.76 ug/m³. The relationship is derived by Cowherd (1985) for a rapid assessment procedure applicable to a typical hazardous waste site, where the surface contamination provides a relatively continuous and constant potential for emission over an extended period of time (e.g., years). This represents an annual average emission rate based on wind erosion that should be compared with chronic health criteria; it is not appropriate for evaluating the potential for more acute exposures. Definitions of the input variables are in [Table 1](#).

With the exception of specific heavy metals, the PEF does not appear to significantly affect most soil screening levels. The equation forms the basis for deriving a generic PEF for the inhalation pathway. For more details regarding specific parameters used in the PEF model, refer to [Soil Screening Guidance: Technical Background Document](#). The use of alternate values on a specific site should be justified and presented in an Administrative Record if considered in CERCLA remedy selection.

$$PEF_w = \frac{Q}{C_w} \times \frac{3,600}{0.036 \times (1-V) \times (U_m/U_t)^3 \times F(x)}$$

where

$$\frac{Q}{C_w} = A \times \exp\left[\frac{(\ln A_s - B)^2}{C}\right]$$

Note: the generic PEF evaluates wind-borne emissions and does not consider dust emissions from traffic or other forms of mechanical disturbance that could lead to greater emissions than assumed here.

4.10.2 Volatilization Factor (VF)

The soil-to-air VF is used to define the relationship between the concentration of the contaminant in soil and the flux of the volatilized contaminant to air. VF is calculated from the equation below using chemical-specific properties and either site-measured or default values for soil moisture, dry bulk density, and fraction of organic carbon in soil. The [Soil Screening Guidance: User's Guide](#) describes how to develop site measured values for these parameters.

VF is only calculated for volatile organic compounds (VOCs). VOCs, for the purpose of this guidance, are chemicals with a Henry's Law constant of 1×10^{-5} atm-m³/mole or greater and with a molecular weight of less than 200 g/mole.

$$VF = \frac{\frac{Q}{C_w} \times (3.14 \times D_A \times T)^{\frac{1}{2}} \times 10^{-4} \left(\frac{m^2}{cm^2}\right)}{2 \times \rho_b \times D_A}$$

where

$$\frac{Q}{C_w} = A \times \exp\left[\frac{(\ln A_s - B)^2}{C}\right] \text{ and}$$

$$D_A = \frac{\left[\left(\theta_a^{\frac{10}{3}} \times D_{ia} \times H' + \theta_w^{\frac{10}{3}} \times D_{iw}\right) / n^2\right]}{\rho_b \times K_d + \theta_w + \theta_a \times H'}$$

Diffusivity in Water (cm²/s)

Diffusivity in water can be calculated from the chemical's molecular weight and density, using the following correlation equation based on WATER9 ([U.S. EPA, 2001](#)):

$$D_{iw} \left(\frac{cm^2}{s}\right) = 0.0001518 \times \left(\frac{T^{\circ}C + 273.16}{298.16}\right) \times \left(\frac{MW \left(\frac{g}{mol}\right)}{\rho \left(\frac{g}{cm^3}\right)}\right)^{-0.6}$$

where

T typically = 25°C

If density is not available,

$$D_{iw} \left(\frac{cm^2}{s}\right) = 0.000222 \times (MW)^{-\left(\frac{2}{3}\right)}$$

If density is not available, diffusivity in water can be calculated using the correlation equation based on U.S. EPA (1987). The value for diffusivity in water must be greater than zero. No maximum limit is enforced.

Diffusivity in Air (cm²/s).

Diffusivity in air can be calculated from the chemical's molecular weight and density, using the following correlation equation based on WATER9 (U.S. EPA, 2001):

$$D_{ia} \left(\frac{\text{cm}^2}{\text{s}} \right) = \frac{0.00229 \times (T^{\circ}\text{C} + 273.16)^{1.5} \times \left[0.034 + \left(\frac{1}{\text{MW} \left(\frac{\text{g}}{\text{mol}} \right)} \right) \times \text{MW}_{\text{cor}} \right]}{\left(\left(\frac{\text{MW} \left(\frac{\text{g}}{\text{mol}} \right)}{2.5 \times \rho \left(\frac{\text{g}}{\text{cm}^3} \right)} \right)^{0.333} + 1.8 \right)^2}$$

where

T typically = 25 °C

$\text{MW}_{\text{cor}} = (1 - 0.000015 \times \text{MW}^2)$ If MW_{cor} is less than 0.4, then MW_{cor} is set to 0.4.

If density is not available,

$$D_{ia} \left(\frac{\text{cm}^2}{\text{s}} \right) = 1.9 \times \left(\text{MW} \left(\frac{\text{g}}{\text{mol}} \right) \right)^{-\left(\frac{2}{3} \right)} \text{ except for dioxins use, } D_{ia} \left(\frac{\text{cm}^2}{\text{s}} \right) = \left(\frac{154}{\text{MW} \left(\frac{\text{g}}{\text{mol}} \right)} \right)^{0.5} \times 0.068$$

If density is not available, diffusivity in air can be calculated using the correlation equation based on U.S. EPA (1987). For dioxins, diffusivity in air can be calculated from the molecular weight using the correlation equation based on EPA's Dioxin Reassessment (U.S. EPA, 2000).

5. Special Considerations

Most of the SLs are readily derived by referring to the above equations. However, there are some cases for which the standard equations do not apply and/or external adjustments to the SLs are recommended. These special case chemicals are discussed below.

5.1 Cadmium

IRIS presents an oral "water" RfD for cadmium for use in assessment of risks to water of 0.0005 mg/kg-day. IRIS also presents an oral "food" RfD for cadmium for use in assessment of risks to soil and biota of 0.001 mg/kg-day. The SLs for Cadmium are based on the oral RfD for "water", which is slightly more conservative (by a factor of 2) than the RfD for "food". Because the SLs are considered screening values, the more conservative RfD is used for cadmium. However, reasonable arguments could be made for applying an RfD for food (instead of the oral RfD for water) for some media such as soils. RAGS Part E, in Exhibit 4-1, presents a GIABS for soil of 2.5% and for water of 5%.

5.2 Lead

EPA has no consensus RfD or CSF for inorganic lead, so it is not possible to calculate SLs as we have done for other chemicals. EPA considers lead to be a special case because of the difficulty in identifying the classic "threshold" needed to develop an RfD.

EPA therefore evaluates lead exposure by using blood-lead modeling, such as the Integrated Exposure-Uptake Biokinetic Model (IEUBK). The EPA Office of Solid Waste has also released a detailed directive on risk assessment and cleanup of residential soil lead. The directive recommends that soil lead levels less than 400 mg/kg are generally safe for residential use. Above that level, the document suggests collecting data and modeling blood-lead levels with the IEUBK model. For the purposes of screening, therefore, 400 mg/kg is recommended for residential soils. For water, we suggest 15 ug/l (the EPA Action Level in water), and for air, the National Ambient Air Quality Standard.

However, caution should be used when both water and soil are being assessed. The IEUBK model shows that if the average soil concentration is 400 mg/kg, an average tap water concentration above 5 ug/L would yield more than 5% of the population above a 10 ug/dL blood-lead level. If the average tap water concentration is 15 ug/L, an average soil concentration greater than 250 mg/kg would yield more than 5% of the population above a 10 ug/dL blood-lead level.

EPA uses a second Adult Lead Model to estimate SLs for an industrial setting. This SL is intended to protect a fetus that may be carried by a pregnant female worker. It is assumed that a cleanup goal that is protective of a fetus will also afford protection for male or female adult workers. The model equations were developed to calculate cleanup goals such that the fetus of a pregnant female worker would not likely have an unsafe concentration of lead in blood.

For more information on EPA's lead models and other lead-related topics, please go to [Addressing Lead at Superfund Sites](#).

5.3 Manganese

The IRIS RfD (0.14 mg/kg-day) includes manganese from all sources, including diet. The author of the IRIS assessment for manganese recommended that the dietary contribution from the normal U.S. diet (an upper limit of 5 mg/day) be subtracted when evaluating non-food (e.g., drinking water or soil) exposures to manganese, leading to a RfD of 0.071 mg/kg-day for non-food items. The explanatory text in IRIS further recommends using a modifying factor of 3 when calculating risks associated with non-food sources due to a number of uncertainties that are discussed in the IRIS file for manganese, leading to a RfD of 0.024 mg/kg-day. This modified RfD has been used in the derivation of some manganese screening levels for soil and water. For more information regarding the Manganese RfD, users are advised to contact the author of the IRIS assessment on Manganese.

5.4 Vanadium and Thallium Compounds

The oral RfD for Thallium, used in this website, is derived from the IRIS oral RfD for Thallium Sulfate by factoring out the molecular weight (MW) of the sulfate ion. Thallium Sulfate (Tl_2SO_4) has a molecular weight of 504.82. The two atoms of Thallium contribute 81% of the MW. Thallium Sulfate's oral RfD of 8E-05 multiplied by 81% gives a Thallium oral RfD of 6.48E-05.

The oral RfD toxicity value for Vanadium, used in this website, is derived from the IRIS oral RfD for Vanadium Pentoxide by factoring out the molecular weight (MW) of the oxide ion. Vanadium Pentoxide (V_2O_5) has a molecular weight of 181.88. The two atoms of Vanadium contribute 56% of the MW. Vanadium Pentoxide's oral RfD of 9E-03 multiplied by 56% gives a Vanadium oral RfD of 5.04E-03.

5.5 Uranium

"Uranium Soluble Salts" uses the IRIS oral RfD of 3E-03. For the insoluble salts of Uranium, the oral RfD of 6E-04 may be used from the Federal Register, Thursday December 7, 2000. Part II, Environmental Protection Agency. 40 CFR Parts 9, 141, and 142 - National Primary Drinking Water Regulations; Radionuclides; Final Rule. p 76713.

5.6 Chromium (VI)

For Chromium (VI) (Cr6), IRIS shows an air unit risk of 1.2E-2 per (ug/m³). However, the supporting documentation in the IRIS file states that this toxicity value is based on an assumed 1:6 ratio of Cr6:Cr3. Because of this assumption and in an effort to be transparent, RSLs based on this cancer toxicity value are presented as "Chromium, Total (1:6 ratio Cr VI:III)" numbers.

In the RSL Table, the Cr6 specific value (assuming 100% Cr6) is derived by multiplying the IRIS Cr6 value by 7. This is considered to be a conservative and protective and is consistent with the State of California's interpretation of the Mancuso study that forms the basis of Cr6's toxicity values.

It is recommended that valent-specific data for Chromium be collected when Chromium is likely to be an important contaminant at a site, and when Cr6 may exist. In the absence of valent-specific data, screening levels for total Chromium are provided. If you are working on a chromium site, you may want to contact the appropriate regulatory officials in your region to determine what their position is on this issue.

5.7 Aminodinitrotoluenes

The IRIS oral RfD of 2E-03 for 2,4-Dinitrotoluene is used as a surrogate for 2-Amino-4,6-Dinitrotoluene and 4-Amino-2,6-Dinitrotoluene.

5.8 PCBs

Aroclor 1016 is considered low risk and assigned appropriate toxicity values. All other Aroclors are assigned the high risk toxicity values.

5.9 Soil Saturation Limit (C_{sat})

The soil saturation concentration, C_{sat} , corresponds to the contaminant concentration in soil at which the absorptive limits of the soil particles, the solubility limits of the soil pore water, and saturation of soil pore air have been reached. Above this concentration, the soil contaminant may be present in free phase (i.e., nonaqueous phase liquids (NAPLs) for contaminants that are liquid at ambient soil temperatures and pure solid phases for compounds that are solid at ambient soil temperatures).

Equation 4-10 is used to calculate C_{sat} for each volatile contaminant. As an update to RAGS HHEM, Part B (USEPA 1991a), this equation takes into account the amount of contaminant that is in the vapor phase in soil in addition to the amount dissolved in the soil's pore water and sorbed to soil particles.

Chemical-specific C_{sat} concentrations must be compared with each VF-based SL because a basic principle of the SL volatilization model is not applicable when free-phase contaminants are present. How these cases are handled depends on whether the contaminant is liquid or solid at ambient temperatures. Liquid contaminant that have a VF-based SL that exceeds the C_{sat} concentration are set equal to C_{sat} whereas for solids (e.g., PAHs), soil screening decisions are based on the appropriate SLs for other pathways of concern at the site (e.g., ingestion).

$$C_{sat} = \frac{s \left(\frac{mg}{L} \right)}{\rho_b \left(\frac{Kg}{L} \right)} \times \left(K_d \left(\frac{L}{Kg} \right) \times \rho_b \left(\frac{Kg}{L} \right) + \theta_w \left(\frac{L_{water}}{L_{soil}} \right) + H' \times \theta_a \left(\frac{L_{air}}{L_{soil}} \right) \right)$$

where

$$K_d = K_{oc} \left(\frac{L}{Kg} \right) \times f_{oc} \left(\frac{g}{g} \right),$$

$$\theta_a \left(\frac{L_{air}}{L_{soil}} \right) = n \left(\frac{L_{pore}}{L_{soil}} \right) - \theta_w \left(\frac{L_{water}}{L_{soil}} \right) \text{ and}$$

$$n = 1 - \left(\frac{\rho_b \left(\frac{Kg}{L} \right)}{\rho_s \left(\frac{Kg}{L} \right)} \right)$$

5.10 SL Theoretical Ceiling Limit

The ceiling limit of 10⁺⁵ mg/kg is equivalent to a chemical representing 10% by weight of the soil sample. At this contaminant concentration (and higher), the assumptions for soil contact may be violated (for example, soil adherence and wind-borne dispersion assumptions) due to the presence of the foreign substance itself.

5.11 Target Risk

With the exceptions described previously in Sections 5.6 and 5.7, SLs are chemical concentrations that correspond to fixed levels of risk (i.e., either a one-in-one million [10⁻⁶] cancer risk or a noncarcinogenic hazard quotient of 1) in soil, air, and water. In most cases, where a substance causes both cancer and noncancer (systemic) effects, the 10⁻⁶ cancer risk will result in a more stringent criteria and consequently this value is presented in the printed copy of the

Table. SL concentrations that equate to a 10^{-6} cancer risk are indicated by 'ca'. SL concentrations that equate to a hazard quotient of 1 for noncarcinogenic concerns are indicated by 'nc'.

If the SLs are to be used for site screening, it is recommended that both cancer and noncancer-based SLs be used. Both carcinogenic and noncarcinogenic values may be obtained in the Supporting Tables.

Some users of this SL Table may plan to multiply the cancer SL concentrations by 10 or 100 to set 'action levels' for triggering remediation or to set less stringent cleanup levels for a specific site after considering non-risk-based factors such as ambient levels, detection limits, or technological feasibility. This risk management practice recognizes that there may be a range of values that may be 'acceptable' for carcinogenic risk (EPA's risk management range is one-in-a-million [10^{-6}] to one-in-ten thousand [10^{-4}]). However, this practice could lead one to overlook serious noncancer health threats and it is strongly recommended that the user consult with a toxicologist or regional risk assessor before doing this. Carcinogens are indicated by an asterisk (*) in the SL Table where the noncancer SLs would be exceeded if the cancer value that is displayed is multiplied by 100. (***) indicate that the noncancer values would be exceeded if the cancer SL were multiplied by 10. There is no range of 'acceptable' noncarcinogenic 'risk' for CERCLA sites. Therefore, the noncancer SLs should not be multiplied by 10 or 100 when setting final cleanup criteria. In the rare case where noncancer SLs are more stringent than cancer SLs set at one-in-one-million risk, a similar approach has been applied (e.g. 'max').

SL concentrations in the printed Table are risk-based, but for soil there are two important exceptions: (1) for several volatile chemicals, SLs may exceed the soil saturation level ('sat') and (2) SLs may exceed a non-risk based 'ceiling limit' concentration of 10^{+5} mg/kg ('max') for relatively less toxic inorganic and semivolatile contaminants. For more information on the 'sat' value in the SL Table, please see the discussion in Section 5.8. For more information on the 'max' value in the SL Table, please see the discussion in Section 5.9.

With respect to applying a 'ceiling limit' for chemicals other than volatiles, it is recognized that this is not a universally accepted approach. Some within the agency argue that all values should be risk-based to allow for scaling (for example, if the risk-based SL is set at a hazard quotient = 1.0, and the user would like to set the hazard quotient to 0.1 to take into account multiple chemicals, then this is as simple as multiplying the risk-based SL by 1/10th). If scaling is necessary, SL users can do this simply by referring to the Supporting Tables at this website where risk-based soil concentrations are presented for all chemicals.

In spite of the fact that applying a ceiling limit is not a universally accepted approach, this table applies a 'max' soil concentration to the SL Table for the following reasons:

- Risk-based SLs for some chemicals in soil exceed unity ($>1,000,000$ mg/kg), which is not possible.
- The ceiling limit of 10^{+5} mg/kg is equivalent to a chemical representing 10% by weight of the soil sample. At this contaminant concentration (and higher), the assumptions for soil contact may be violated (for example, soil adherence and wind-borne dispersion assumptions) due to the presence of the foreign substance itself.
- SLs currently do not address short-term exposures (e.g., pica children and construction workers). Although extremely high soil SLs are likely to represent relatively non-toxic chemicals, such high values may not be justified if in fact more toxicological data were available for evaluating short-term and/or acute exposures.

5.12 Screening Sites with Multiple Contaminants

Since the screening levels in the tables are contaminant specific, users needing to screen sites with multiple contaminants, especially sites with multiple contaminants affecting the same target organ, may wish to use this website's [calculator](#). User's are encouraged to consult with risk assessors in that EPA Regional Office when evaluating or screening contamination at a site with multiple contaminants.

5.13 Deriving Soil Gas SLs

The air SLs could apply to indoor air from, e.g., a vapor intrusion scenario. To model indoor air concentrations from other media (e.g., soil gas, groundwater), consult with regional experts in vapor intrusion.

For more information on EPA's current understanding of this emerging exposure pathway, please refer to EPA's recent draft guidance Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance) (USEPA 2002) available on the web at: <http://www.epa.gov/correctiveaction/eis/vapor.htm>.

6. Using the Calculator

The [Calculator](#) can be used to generate site-specific SLs or PRGs. The calculator requires the user to make some simple selections. To use the calculator Select a landuse. Next, select whether you want Default or Site-specific SLs. Selecting default screening levels will reproduce the results in the generic [Generic Tables](#). Selecting Site-Specific will allow you to change exposure parameters. Now pick your analytes. To pick several in a row, depress the left mouse button and drag, then release. Or hold the Ctrl key down and select multiple analytes that are not in a row. Select the output option. Hit the retrieve button. If you selected Site-Specific, the next page allows you to change exposure parameters. Hit the retrieve button. SLs are being calculated. The first table presents the input parameters that were selected. The next table contains the screening levels. This table can be too big to print. The easiest way to manage this table is to move it to a spreadsheet or a database. To copy this table, hold the left mouse key down and drag across the entire table. when done, press Ctrl c to copy. Switch to a spreadsheet and press Ctrl v to paste.

Table 1. Standard Default Factors

Symbol	Definition (units)	Default	Reference
SLs			
SL _{res-air-ca}	Resident Air Carcinogenic (ug/m ³)	Contaminant-specific	Determined in this calculator
SL _{res-air-ca-vinylchloride}	Resident Air Carcinogenic Vinyl Chloride (ug/m ³)	Vinyl Chloride-specific	Determined in this calculator
SL _{res-air-mu}	Resident Air Mutagenic (ug/m ³)	Mutagen-specific	Determined in this calculator
SL _{res-air-nc}	Resident Air Noncarcinogenic (ug/m ³)	Contaminant-specific	Determined in this calculator
SL _{res-fish-ca-ing}	Resident Fish Carcinogenic (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{res-fish-nc-ing}	Resident Fish Noncarcinogenic (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{water-ca-ing}	Resident Tapwater Groundwater Carcinogenic Ingestion (ug/L)	Contaminant-specific	Determined in this calculator
SL _{water-ca-inh}	Resident Tapwater Groundwater Carcinogenic Inhalation (ug/L)	Contaminant-specific	Determined in this calculator
SL _{water-ca-tot}	Resident Tapwater Groundwater Carcinogenic Total (ug/L)	Contaminant-specific	Determined in this calculator
SL _{res-water-ca-vc-ing}	Resident Tapwater Groundwater Carcinogenic Vinyl Chloride Ingestion (ug/L)	Contaminant-specific	Determined in this calculator

SL _{res-water-ca-vc-inh}	Resident Tapwater Groundwater Carcinogenic Vinyl Chloride Inhalation (ug/L)	Contaminant-specific	Determined in this calculator
SL _{res-water-ca-vc-tot}	Resident Tapwater Groundwater Carcinogenic Vinyl Chloride Total (ug/L)	Contaminant-specific	Determined in this calculator
SL _{water-mu-ing}	Resident Tapwater Groundwater Mutagenic Ingestion (ug/L)	Contaminant-specific	Determined in this calculator
SL _{water-mu-inh}	Resident Tapwater Groundwater Mutagenic Inhalation (ug/L)	Mutagen-specific	Determined in this calculator
SL _{water-mu-tot}	Resident Tapwater Groundwater Mutagenic Total (ug/L)	Contaminant-specific	Determined in this calculator
SL _{water-nc-ing}	Resident Tapwater Groundwater Noncarcinogenic Ingestion (ug/L)	Contaminant-specific	Determined in this calculator
SL _{water-nc-inh}	Resident Tapwater Groundwater Noncarcinogenic Inhalation (ug/L)	Mutagen-specific	Determined in this calculator
SL _{water-nc-tot}	Resident Tapwater Groundwater Noncarcinogenic Total (ug/L)	Contaminant-specific	Determined in this calculator
SL _{res-soil-ca-ing}	Resident Soil Carcinogenic Ingestion (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{res-soil-ca-der}	Resident Soil Carcinogenic Dermal (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{res-soil-ca-inh}	Resident Soil Carcinogenic Inhalation (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{res-soil-ca-tot}	Resident Soil Carcinogenic Total (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{res-soil-ca-vc-ing}	Resident Soil Carcinogenic Vinyl Chloride Ingestion (mg/kg)	Vinyl Chloride -specific	Determined in this calculator
SL _{res-soil-ca-vc-der}	Resident Soil Carcinogenic Vinyl Chloride Dermal (mg/kg)	Vinyl Chloride-specific	Determined in this calculator
SL _{res-soil-ca-vc-inh}	Resident Soil Carcinogenic Vinyl Chloride Inhalation (mg/kg)	Vinyl Chloride-specific	Determined in this calculator
SL _{res-soil-ca-vc-tot}	Resident Soil Carcinogenic Vinyl Chloride Total (mg/kg)	Vinyl Chloride-specific	Determined in this calculator
SL _{res-soil-mu-ing}	Resident Soil Mutagenic Ingestion (mg/kg)	Mutagen-specific	Determined in this calculator
SL _{res-soil-mu-der}	Resident Soil Mutagenic Dermal (mg/kg)	Mutagen-specific	Determined in this calculator
SL _{res-soil-mu-inh}	Resident Soil Mutagenic Inhalation (mg/kg)	Mutagen-specific	Determined in this calculator
SL _{res-soil-mu-tot}	Resident Soil Mutagenic Total (mg/kg)	Mutagen-specific	Determined in this calculator
SL _{res-soil-nc-ing}	Resident Soil Noncarcinogenic Ingestion (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{res-soil-nc-der}	Resident Soil Noncarcinogenic Dermal (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{res-soil-nc-inh}	Resident Soil Noncarcinogenic Inhalation (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{res-soil-nc-tot}	Resident Soil Noncarcinogenic Total (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{w-woil-ca-ing}	Worker Soil Carcinogenic Ingestion (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{w-woil-ca-der}	Worker Soil Carcinogenic Dermal (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{w-woil-ca-inh}	Worker Soil Carcinogenic Inhalation (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{w-woil-ca-tot}	Worker Soil Carcinogenic Total (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{w-woil-nc-ing}	Worker Soil Noncarcinogenic Ingestion (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{w-woil-nc-der}	Worker Soil Noncarcinogenic Dermal (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{w-woil-nc-inh}	Worker Soil Noncarcinogenic Inhalation (mg/kg)	Contaminant-specific	Determined in this calculator
SL _{w-woil-nc-tot}	Worker Soil Noncarcinogenic Total (mg/kg)	Contaminant-specific	Determined in this calculator
Toxicity Values			
RFD _a	Chronic Oral Reference Dose (mg/kg-day)	Contaminant-specific	EPA Superfund hierarchy
RFC	Chronic Inhalation Reference Concentration (mg/m ³)	Contaminant-specific	EPA Superfund hierarchy
CSF _a	Chronic oral Slope Factor (mg/kg-day) ⁻¹	Contaminant-specific	EPA Superfund hierarchy
IUR	Chronic Inhalation Unit Risk (ug/m ³) ⁻¹	Contaminant-specific	EPA Superfund hierarchy
Miscellaneous Variables			
TR	target risk	1 × 10 ⁻⁶	Determined in this calculator
THQ	target hazard quotient	1	Determined in this calculator
K	Andelman Volatilization Factor (L/m ³)	0.5	U.S. EPA 1991b (pg. 20)
AT _r	Averaging time - resident (days/year)	365	U.S. EPA 1989 (pg. 6-23)
AT _w	Averaging time - worker (days/year)	365	U.S. EPA 1989 (pg. 6-23)
LT	Lifetime (years)	70	U.S. EPA 1989 (pg. 6-22)
Ingestion, and Dermal Contact Rates			
IRW _c	Drinking Water Ingestion Rate - Child (L/day)	1	
IRW _a	Drinking Water Ingestion Rate - Adult (L/day)	2	U.S. EPA 1989 (Exhibit 6-11)
IFW _{adj}	Drinking Water Ingestion Rate - Age-adjusted (L-year/kg-day)	2	Calculated using the aged adjusted intake factors equation
IFWM _{adj}	Mutagenic Drinking Water Ingestion Rate - Age-adjusted (L-year/kg-day)	3.39	Calculated using the aged adjusted intake factors equation
IRS _c	Resident Soil Ingestion Rate - Child (mg/day)	200	U.S. EPA 1991a (pg. 15)
IRS _a	Resident Soil Ingestion Rate - Adult (mg/day)	100	U.S. EPA 1991a (pg. 15)
IFS _{adj}	Resident Soil Ingestion Rate - Age-adjusted (mg-year/kg-day)	114	Calculated using the aged adjusted intake factors equation
IFSM _{adj}	Mutagenic Resident Soil Ingestion Rate - Age-adjusted (mg-year/kg-day)	489.5	Calculated using the aged adjusted intake factors equation
IRF _a	Fish Ingestion Rate (mg/day)	5.4 × 10 ⁴	U.S. EPA 1991a (pg. 15)
SA _c	Resident soil surface area - child (cm ²)	2800	U.S. EPA 2002 (Exhibit 1-2)
SA _a	Resident soil surface area - adult (cm ²)	5700	U.S. EPA 2002 (Exhibit 1-2)
AF _c	Resident soil adherence factor-child (mg/cm ²)	0.2	U.S. EPA 2002 (Exhibit 1-2)
AF _a	Resident soil adherence factor-adult (mg/cm ²)	0.07	U.S. EPA 2002 (Exhibit 1-2)
DFS _{adj}	Resident soil dermal contact factor- age-adjusted (mg-year/kg-day)	361	Calculated using the aged adjusted intake factors equation
DFSM _{adj}	Mutagenic Resident soil dermal contact factor- age-	1445	Calculated using the aged adjusted

	adjusted (mg-year/kg-day)		intake factors equation
SA _{ow}	Worker soil surface area - adult (cm ²)	3300	U.S. EPA 2002 (Exhibit 1-2)
AF _{ow}	Worker soil adherence factor-child (mg/cm ²)	0.2	U.S. EPA 2002 (Exhibit 1-2)
ABS	Fraction of contaminant absorbed dermally from soil (unitless)	Contaminant-specific	U.S. EPA 2004 (Exhibit 3-4)
GIABS	Fraction of contaminant absorbed in gastrointestinal tract (unitless) Note: if the GIABS is >50% then it is set to 100% for the calculation of dermal toxicity values.	Contaminant-specific	U.S. EPA 2004 (Exhibit 4-1)
Exposure Frequency, Exposure Duration, and Exposure Time Variables			
EF _r	Exposure Frequency - residential (days/yr)	350	U.S. EPA 1991a (pg. 15)
EF _{ow}	Exposure Frequency - worker (days/yr)	250	U.S. EPA 1991a (pg. 15)
ED _r	Exposure Duration - resident (yr)	30	U.S. EPA 1991a (pg. 15)
ED _c	Exposure Duration -child resident (yr)	6	U.S. EPA 1991a (pg. 15)
ED _{ow}	Exposure Duration - worker (yr)	25	U.S. EPA 1991a (pg. 15)
ET _{ra}	Exposure Time - resident air (hr/hr)	1	24 hrs per 24 hr Day
Soil to Groundwater SSL Factor Variables			
I	Infiltration Rate (m/year)	0.18	U.S. EPA. 1996a (pg. 31)
L	source length parallel to ground water flow (m)	400	U.S. EPA. 1996a (pg. 31)
i	hydraulic gradient (m/m)	1.2	U.S. EPA. 1996a (pg. 31)
K	aquifer hydraulic conductivity (m/year)	40	U.S. EPA. 1996a (pg. 31)
θ _w	water-filled soil porosity (L _{water} /L _{soil})	0.3	U.S. EPA. 1996a (pg. 31)
θ _a	air-filled soil porosity (L _{air} /L _{soil})	= n - θ _w	U.S. EPA. 1996a (pg. 31)
n	total soil porosity(L _{pore} /L _{soil})	= 1 - (P _b /P _s)	U.S. EPA. 1996a (pg. 31)
P _s	soil particle density (Kg/L)	2.65	U.S. EPA. 1996a (pg. 31)
P _b	dry soil bulk density (kg/L)	1.5	U.S. EPA. 1996a (pg. 31)
H'	Dimensionless Henry Law Constant (unitless)	analyte-specific	EPI Suite
K _d	soil-water partition coefficient (L/kg)	= K _{oc} * f _{oc} for organics	U.S. EPA. 1996a (pg. 31)
K _{oc}	soil organic carbon/water partition coefficient (L/kg)	analyte-specific	EPI Suite
f _{oc}	fraction organic carbon in soil (g/g)	0.002	U.S. EPA. 1996a (pg. 31)
d _a	aquifer thickness (m)	12	U.S. EPA. 1996a (pg. 31)
d _s	depth of source (m)	2	U.S. EPA. 1996a (pg. 31)
d	mixing zone depth (m)	calculated	U.S. EPA. 1996a (pg. 31)
Particulate Emission Factor Variables			
PEF	Particulate Emission Factor - Minneapolis (m ³ /kg)	1.36 x 10 ⁹ (region-specific)	Determined in this calculator
Q/C	Inverse of the Mean Concentration at the Center of a 0.5-Acre-Square Source (g/m ² -s per kg/m ³)	93.77 (region-specific)	Determined in this calculator
V	Fraction of Vegetative Cover (unitless)	0.5	U.S. EPA 1996a (pg. 23)
U _m	Mean Annual Wind Speed (m/s)	4.69	U.S. EPA 1996a (pg. 23)
U _t	Equivalent Threshold Value of Wind Speed at 7m (m/s)	11.32	U.S. EPA 1996a (pg. 23)
F(x)	Function Dependent on U _m /U _t (unitless)	0.194	U.S. EPA 1996a (pg. 23)
A	Dispersion constant unitless	PEF and region-specific	U.S. EPA 2002 (pg. D-6 to D-8)
A _s	Areal extent of the site or contamination (acres)	0.5 (range 0.5 to 500)	U.S. EPA 2002 (pg. D-2)
B	Dispersion constant unitless	PEF and region-specific	U.S. EPA 2002 (pg. D-6 to D-8)
C	Dispersion constant unitless	PEF and region-specific	U.S. EPA 2002 (pg. D-6 to D-8)
Volatilization Factor and Soil Saturation Limit Variables			
VF	Volatilization Factor - Los Angeles (m ³ /kg)	Contaminant-specific	U.S. EPA. 1996b (pg. 24)
Q/C _w	Inverse of the Mean Concentration at the Center of a 0.5-Acre-Square Source (g/m ² -s per kg/m ³)	68.81	U.S. EPA. 1996b (pg. 24)
D _a	Apparent Diffusivity (cm ² /s)	Contaminant-specific	U.S. EPA. 1996b (pg. 24)
T	Exposure interval (s)	9.5 × 10 ⁸	U.S. EPA. 1996b (pg. 24)
P _b	Dry soil bulk density (g/cm ³)	1.5	U.S. EPA. 1996b (pg. 24)
θ _a	Air-filled soil porosity (L _{air} /L _{soil}) (n - θ _w)	0.28	U.S. EPA. 1996b (pg. 24)
n	Total soil porosity (L _{pore} /L _{soil}) (1 - (P _b /P _s))	0.43	U.S. EPA. 1996b (pg. 24)
θ _w	Water-filled soil porosity (L _{water} /L _{soil})	0.15	U.S. EPA. 1996b (pg. 24)
P _s	Soil particle density (g/cm ³)	2.65	U.S. EPA. 1996b (pg. 24)
S	Water Solubility Limit (mg/L)	Contaminant-specific	EPI Suite
D _{oa}	Diffusivity in air (cm ² /s)	Contaminant-specific	U.S. EPA. 2001
H'	Dimensionless Henry's Law Constant	Contaminant-specific	EPI Suite
D _{ow}	Diffusivity in water (cm ² /s)	Contaminant-specific	U.S. EPA. 2001
K _d	Soil-water partition coefficient (L/Kg) (K _{oc} * f _{oc})	Contaminant-specific	U.S. EPA. 1996b (pg. 24)
K _{oc}	Soil organic carbon-water partition coefficient (L/Kg)	Contaminant-specific	EPI Suite
f _{oc}	Organic carbon content of soil (g/g)	0.006	U.S. EPA. 1996b (pg. 24)

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For assistance/questions contact [Dave Crawford](#) or [Fred Dolisslager](#)

Appendix B

STATISTICAL SUMMARY OF ANALYTICAL RESULTS, STANDARDS, AND RISK RESULTS FOR RESIDENCES



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TABLE B-5 – AMBIENT AIR INFORMATION

RISK-BASED SCREENING LEVELS

1.1 Overview

This appendix presents the analytical data statistical summaries, regional screening levels and other risk-based criteria, and the exceedance factor calculations for the nine study areas. The data are organized by media as follows:

- Table B-1 – Soil Information
- Table B-2 – Soil Gas Information
- Table B-3 – Tap Water - Public Information
- Table B-4 – Tap Water - Well Information
- Table B-5 – Ambient Air Information

TABLES

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1,1,2-Tetrachloroethane	21	4.76	0.00211	0.00211	2	0.001055	
01	1,1,2,2-Tetrachloroethane	21	9.52	0.00119	0.00123	0.59	0.002084746	
01	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	21	19.05	0.00165	0.0122			
01	1,1,2-Trichloroethane	21	4.76	0.00256	0.00256	1.1	0.002327273	
01	1,2,4-Trimethylbenzene	21	19.05	0.00154	0.00343			
01	1,2-Dichlorobenzene	21	14.29	0.000954	0.00173			
01	1,2-Dichloroethane	21	4.76	0.00182	0.00182	0.45	0.004044444	
01	1,2-Dichloropropane	21	4.76	0.00119	0.00119	0.93	0.00127957	
01	1,3,5-Trimethylbenzene	21	23.81	0.00145	0.00291			
01	1,3-Dichlorobenzene	21	19.05	0.000731	0.0019			
01	1,3-Dichloropropane	21	4.76	0.00153	0.00153			
01	1,4-Dichlorobenzene	21	14.29	0.00103	0.00155	2.6	0.000596154	
01	2-Chlorotoluene	21	14.29	0.00168	0.0033			
01	4,4--DDE	19	10.53	0.000659	0.0164	1.4	0.011714286	
01	4,4-DDT	19	5.26	0.00627	0.00627	1.7	0.003688235	
01	4-Chlorotoluene	21	14.29	0.000904	0.00211			
01	4-Isopropyltoluene	21	23.81	0.00134	0.0177			
01	Acetone	21	28.57	0.00731	0.0494			
01	alpha-BHC	21	4.76	0.00116	0.00116	0.077	0.015064935	
01	alpha-Chlordane	20	5	0.0516	0.0516			
01	Aluminum	21	100	15460	33700			
01	Antimony	21	95.24	0.0791	0.691			
01	Arsenic	21	100	4.66	13	0.39	33.33333333	100
01	Barium	21	100	78.5	351			
01	Benzene	21	4.76	0.000775	0.000775	1.1	0.000704545	
01	Benzo(g,h,i)perylene	21	4.76	0.0541	0.0541			
01	Beryllium	21	100	2.11	5.1	1400	0.003642857	
01	Bis(2-ethylhexyl)phthalate	21	47.62	0.145	1.91	35	0.054571429	
01	Bromodichloromethane	21	4.76	0.00184	0.00184	10	0.000184	
01	Cadmium (Food)	21	95.24	0.122	0.41	1800	0.000227778	
01	Chlorobenzene	21	4.76	0.00153	0.00153			
01	Chloroform	21	4.76	0.0018	0.0018	0.3	0.006	
01	Chromium	21	95.24	2.12	12.9			
01	cis-1,3-Dichloropropene	21	4.76	0.00126	0.00126			
01	Cobalt	21	100	1.57	5.71			
01	Copper	21	100	14.1	173			
01	Cyanide	20	10	0.135	0.49			
01	Dimethylphthalate	21	4.76	0.0373	0.0373			
01	Di-n-butylphthalate	21	14.29	0.0448	0.108			
01	Endosulfan II	20	5	0.00188	0.00188			
01	Endosulfan Sulfate	21	9.52	0.00152	0.0016			
01	Ethylbenzene	21	28.57	0.000801	0.00281	5.7	0.000492982	
01	Fluoranthene	21	9.52	0.027	0.0676			
01	gamma-BHC (Lindane)	21	4.76	0.0009	0.0009	0.52	0.001730769	
01	gamma-Chlordane	19	5.26	0.0251	0.0251	1.6	0.0156875	
01	Heptachlor Epoxide	20	15	0.0011	0.0174	0.053	0.328301887	
01	Iron	21	100	8150	17500			
01	Isopropylbenzene	21	23.81	0.000841	0.00274			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1,1,2-Tetrachloroethane	21	4.76	0.00211	0.00211	2300	9.17391E-07	
01	1,1,2,2-Tetrachloroethane	21	9.52	0.00119	0.00123			
01	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	21	19.05	0.00165	0.0122	43000	2.83721E-07	
01	1,1,2-Trichloroethane	21	4.76	0.00256	0.00256	310	8.25806E-06	
01	1,2,4-Trimethylbenzene	21	19.05	0.00154	0.00343	67	5.1194E-05	
01	1,2-Dichlorobenzene	21	14.29	0.000954	0.00173	2000	0.000000865	
01	1,2-Dichloroethane	21	4.76	0.00182	0.00182	13000	0.00000014	
01	1,2-Dichloropropane	21	4.76	0.00119	0.00119	17	0.00007	
01	1,3,5-Trimethylbenzene	21	23.81	0.00145	0.00291			
01	1,3-Dichlorobenzene	21	19.05	0.000731	0.0019			
01	1,3-Dichloropropane	21	4.76	0.00153	0.00153	1600	9.5625E-07	
01	1,4-Dichlorobenzene	21	14.29	0.00103	0.00155	10000	0.000000155	
01	2-Chlorotoluene	21	14.29	0.00168	0.0033	1600	2.0625E-06	
01	4,4--DDE	19	10.53	0.000659	0.0164			
01	4,4-DDT	19	5.26	0.00627	0.00627	36	0.000174167	
01	4-Chlorotoluene	21	14.29	0.000904	0.00211	5500	3.83636E-07	
01	4-Isopropyltoluene	21	23.81	0.00134	0.0177			
01	Acetone	21	28.57	0.00731	0.0494	61000	8.09836E-07	
01	alpha-BHC	21	4.76	0.00116	0.00116			
01	alpha-Chlordane	20	5	0.0516	0.0516			
01	Aluminum	21	100	15460	33700	77000	0.437662338	
01	Antimony	21	95.24	0.0791	0.691	31	0.022290323	
01	Arsenic	21	100	4.66	13	22	0.590909091	
01	Barium	21	100	78.5	351	15000	0.0234	
01	Benzene	21	4.76	0.000775	0.000775	90	8.61111E-06	
01	Benzo(g,h,i)perylene	21	4.76	0.0541	0.0541			
01	Beryllium	21	100	2.11	5.1	160	0.031875	
01	Bis(2-ethylhexyl)phthalate	21	47.62	0.145	1.91	1200	0.001591667	
01	Bromodichloromethane	21	4.76	0.00184	0.00184	1600	0.00000115	
01	Cadmium (Food)	21	95.24	0.122	0.41	70	0.005857143	
01	Chlorobenzene	21	4.76	0.00153	0.00153	310	4.93548E-06	
01	Chloroform	21	4.76	0.0018	0.0018	220	8.18182E-06	
01	Chromium	21	95.24	2.12	12.9			
01	cis-1,3-Dichloropropene	21	4.76	0.00126	0.00126			
01	Cobalt	21	100	1.57	5.71			
01	Copper	21	100	14.1	173	3100	0.055806452	
01	Cyanide	20	10	0.135	0.49	1600	0.00030625	
01	Dimethylphthalate	21	4.76	0.0373	0.0373			
01	Di-n-butylphthalate	21	14.29	0.0448	0.108	6100	1.77049E-05	
01	Endosulfan II	20	5	0.00188	0.00188			
01	Endosulfan Sulfate	21	9.52	0.00152	0.0016			
01	Ethylbenzene	21	28.57	0.000801	0.00281	3600	7.80556E-07	
01	Fluoranthene	21	9.52	0.027	0.0676	2300	2.93913E-05	
01	gamma-BHC (Lindane)	21	4.76	0.0009	0.0009	21	4.28571E-05	
01	gamma-Chlordane	19	5.26	0.0251	0.0251	35	0.000717143	
01	Heptachlor Epoxide	20	15	0.0011	0.0174	0.79	0.022025316	
01	Iron	21	100	8150	17500	55000	0.318181818	
01	Isopropylbenzene	21	23.81	0.000841	0.00274	2200	1.24545E-06	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1,1,2-Tetrachloroethane	21	4.76	0.00211	0.00211			
01	1,1,2,2-Tetrachloroethane	21	9.52	0.00119	0.00123			
01	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	21	19.05	0.00165	0.0122			
01	1,1,2-Trichloroethane	21	4.76	0.00256	0.00256			
01	1,2,4-Trimethylbenzene	21	19.05	0.00154	0.00343			
01	1,2-Dichlorobenzene	21	14.29	0.000954	0.00173			
01	1,2-Dichloroethane	21	4.76	0.00182	0.00182			
01	1,2-Dichloropropane	21	4.76	0.00119	0.00119			
01	1,3,5-Trimethylbenzene	21	23.81	0.00145	0.00291			
01	1,3-Dichlorobenzene	21	19.05	0.000731	0.0019			
01	1,3-Dichloropropane	21	4.76	0.00153	0.00153			
01	1,4-Dichlorobenzene	21	14.29	0.00103	0.00155			
01	2-Chlorotoluene	21	14.29	0.00168	0.0033			
01	4,4--DDE	19	10.53	0.000659	0.0164			
01	4,4-DDT	19	5.26	0.00627	0.00627			
01	4-Chlorotoluene	21	14.29	0.000904	0.00211			
01	4-Isopropyltoluene	21	23.81	0.00134	0.0177			
01	Acetone	21	28.57	0.00731	0.0494			
01	alpha-BHC	21	4.76	0.00116	0.00116			
01	alpha-Chlordane	20	5	0.0516	0.0516			
01	Aluminum	21	100	15460	33700	86900	0.387802071	
01	Antimony	21	95.24	0.0791	0.691	42.8	0.01614486	
01	Arsenic	21	100	4.66	13	164	0.079268293	
01	Barium	21	100	78.5	351	1813	0.193601765	
01	Benzene	21	4.76	0.000775	0.000775			
01	Benzo(g,h,i)perylene	21	4.76	0.0541	0.0541			
01	Beryllium	21	100	2.11	5.1			
01	Bis(2-ethylhexyl)phthalate	21	47.62	0.145	1.91			
01	Bromodichloromethane	21	4.76	0.00184	0.00184			
01	Cadmium (Food)	21	95.24	0.122	0.41	10.6	0.038679245	
01	Chlorobenzene	21	4.76	0.00153	0.00153			
01	Chloroform	21	4.76	0.0018	0.0018			
01	Chromium	21	95.24	2.12	12.9	579	0.022279793	
01	cis-1,3-Dichloropropene	21	4.76	0.00126	0.00126			
01	Cobalt	21	100	1.57	5.71	36.6	0.156010929	
01	Copper	21	100	14.1	173	3965	0.043631778	
01	Cyanide	20	10	0.135	0.49			
01	Dimethylphthalate	21	4.76	0.0373	0.0373			
01	Di-n-butylphthalate	21	14.29	0.0448	0.108			
01	Endosulfan II	20	5	0.00188	0.00188			
01	Endosulfan Sulfate	21	9.52	0.00152	0.0016			
01	Ethylbenzene	21	28.57	0.000801	0.00281			
01	Fluoranthene	21	9.52	0.027	0.0676			
01	gamma-BHC (Lindane)	21	4.76	0.0009	0.0009			
01	gamma-Chlordane	19	5.26	0.0251	0.0251			
01	Heptachlor Epoxide	20	15	0.0011	0.0174			
01	Iron	21	100	8150	17500	154600	0.113195343	
01	Isopropylbenzene	21	23.81	0.000841	0.00274			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Lead	21	100	19.7	352			
01	m,p-Xylenes	21	23.81	0.00187	0.00426			
01	Manganese (food)	21	100	289	654			
01	Mercury	21	4.76	2.02	2.02			
01	Methylene Chloride	21	4.76	0.00201	0.00201	11	0.000182727	
01	Naphthalene	21	4.76	0.0276	0.0276	3.9	0.007076923	
01	n-Butylbenzene	21	23.81	0.00107	0.00528			
01	Nickel	21	95.24	1.77	5.51			
01	n-Propylbenzene	21	19.05	0.000939	0.00213			
01	o-Xylene	21	28.57	0.0004	0.00224			
01	Phenanthrene	21	4.76	0.0344	0.0344			
01	Pyrene	21	14.29	0.0213	0.0676			
01	sec-Butylbenzene	21	23.81	0.00144	0.00326			
01	Selenium	21	42.86	0.093	0.694			
01	Silver	21	28.57	0.105	0.146			
01	Styrene	21	14.29	0.0006	0.000988			
01	tert-Butylbenzene	21	23.81	0.00189	0.0036			
01	Tetrachloroethene	21	4.76	0.00307	0.00307	0.57	0.005385965	
01	Thallium	21	52.38	0.62	3.79			
01	Tin	21	100	0.885	4.78			
01	Toluene	21	33.33	0.000763	0.00981			
01	Total Carcinogenic PAHS (BaP TEQs)	21	19.05	0.0000145	0.0836738	0.015	5.578253333	14.28571429
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	21	100	8.623E-08	4.8955E-06	0.0000045	1.087888889	4.761904762
01	TOTAL HPCDD	21	100	0.0000027	0.00012			
01	TOTAL HPCDF	21	100	0.0000023	0.000239			
01	TOTAL HXCDD	21	100	0.0000015	0.000024			
01	TOTAL HXCDF	21	100	0.0000026	0.000055			
01	TOTAL PECDD	21	95.24	0.0000054	0.000014			
01	TOTAL PECDF	21	100	0.0000029	0.000032			
01	Total Solids	19	100	73.3	92.1			
01	TOTAL TCDD	21	90.48	0.00000081	0.000018			
01	TOTAL TCDF	21	95.24	0.0000013	0.000034			
01	Total Trihalomethanes	21	4.76	0.00364	0.00364			
01	Trichloroethene	21	4.76	0.00169	0.00169	2.8	0.000603571	
01	Vanadium	21	100	16.2	46.2			
01	Zinc	21	100	36.9	204			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Lead	21	100	19.7	352	400	0.88	
01	m,p-Xylenes	21	23.81	0.00187	0.00426	600	0.0000071	
01	Manganese (food)	21	100	289	654			
01	Mercury	21	4.76	2.02	2.02	6.7	0.301492537	
01	Methylene Chloride	21	4.76	0.00201	0.00201	1700	1.18235E-06	
01	Naphthalene	21	4.76	0.0276	0.0276	150	0.000184	
01	n-Butylbenzene	21	23.81	0.00107	0.00528			
01	Nickel	21	95.24	1.77	5.51	1600	0.00344375	
01	n-Propylbenzene	21	19.05	0.000939	0.00213			
01	o-Xylene	21	28.57	0.0004	0.00224	5300	4.22642E-07	
01	Phenanthrene	21	4.76	0.0344	0.0344			
01	Pyrene	21	14.29	0.0213	0.0676	1700	3.97647E-05	
01	sec-Butylbenzene	21	23.81	0.00144	0.00326			
01	Selenium	21	42.86	0.093	0.694	390	0.001779487	
01	Silver	21	28.57	0.105	0.146	390	0.000374359	
01	Styrene	21	14.29	0.0006	0.000988	6500	0.000000152	
01	tert-Butylbenzene	21	23.81	0.00189	0.0036			
01	Tetrachloroethene	21	4.76	0.00307	0.00307	380	8.07895E-06	
01	Thallium	21	52.38	0.62	3.79	5.1	0.743137255	
01	Tin	21	100	0.885	4.78	47000	0.000101702	
01	Toluene	21	33.33	0.000763	0.00981	5000	0.000001962	
01	Total Carcinogenic PAHS (BaP TEQs)	21	19.05	0.0000145	0.0836738			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	21	100	8.623E-08	4.8955E-06	0.000072	0.067993056	
01	TOTAL HPCDD	21	100	0.0000027	0.00012			
01	TOTAL HPCDF	21	100	0.0000023	0.000239			
01	TOTAL HXCDD	21	100	0.0000015	0.000024			
01	TOTAL HXCDF	21	100	0.0000026	0.000055			
01	TOTAL PECDD	21	95.24	0.00000054	0.000014			
01	TOTAL PECDF	21	100	0.0000029	0.000032			
01	Total Solids	19	100	73.3	92.1			
01	TOTAL TCDD	21	90.48	0.00000081	0.000018			
01	TOTAL TCDF	21	95.24	0.0000013	0.000034			
01	Total Trihalomethanes	21	4.76	0.00364	0.00364			
01	Trichloroethene	21	4.76	0.00169	0.00169			
01	Vanadium	21	100	16.2	46.2	550	0.084	
01	Zinc	21	100	36.9	204	23000	0.008869565	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Lead	21	100	19.7	352	2052	0.171539961	
01	m,p-Xylenes	21	23.81	0.00187	0.00426			
01	Manganese (food)	21	100	289	654	5923	0.110417018	
01	Mercury	21	4.76	2.02	2.02	2.66	0.759398496	
01	Methylene Chloride	21	4.76	0.00201	0.00201			
01	Naphthalene	21	4.76	0.0276	0.0276			
01	n-Butylbenzene	21	23.81	0.00107	0.00528			
01	Nickel	21	95.24	1.77	5.51	689	0.007997097	
01	n-Propylbenzene	21	19.05	0.000939	0.00213			
01	o-Xylene	21	28.57	0.0004	0.00224			
01	Phenanthrene	21	4.76	0.0344	0.0344			
01	Pyrene	21	14.29	0.0213	0.0676			
01	sec-Butylbenzene	21	23.81	0.00144	0.00326			
01	Selenium	21	42.86	0.093	0.694	1.9	0.365263158	
01	Silver	21	28.57	0.105	0.146	8.132	0.017953763	
01	Styrene	21	14.29	0.0006	0.000988			
01	tert-Butylbenzene	21	23.81	0.00189	0.0036			
01	Tetrachloroethene	21	4.76	0.00307	0.00307			
01	Thallium	21	52.38	0.62	3.79	69	0.054927536	
01	Tin	21	100	0.885	4.78			
01	Toluene	21	33.33	0.000763	0.00981			
01	Total Carcinogenic PAHS (BaP TEQs)	21	19.05	0.0000145	0.0836738			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	21	100	8.623E-08	4.8955E-06			
01	TOTAL HPCDD	21	100	0.0000027	0.00012			
01	TOTAL HPCDF	21	100	0.0000023	0.000239			
01	TOTAL HXCDD	21	100	0.0000015	0.000024			
01	TOTAL HXCDF	21	100	0.0000026	0.000055			
01	TOTAL PECDD	21	95.24	0.0000054	0.000014			
01	TOTAL PECDF	21	100	0.0000029	0.000032			
01	Total Solids	19	100	73.3	92.1			
01	TOTAL TCDD	21	90.48	0.00000081	0.000018			
01	TOTAL TCDF	21	95.24	0.0000013	0.000034			
01	Total Trihalomethanes	21	4.76	0.00364	0.00364			
01	Trichloroethene	21	4.76	0.00169	0.00169			
01	Vanadium	21	100	16.2	46.2	187	0.247058824	
01	Zinc	21	100	36.9	204	3211	0.06353161	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3	66.67	0.00432	0.1765			
03	2-Butanone (methyl ethyl ketone)	3	33.33	0.00685	0.00685			
03	4,4--DDE	2	50	0.001165	0.001165	1.4	0.000832143	
03	Acetone	3	66.67	0.0185	0.0586			
03	Aluminum	3	100	33850	56600			
03	Antimony	3	100	0.3775	1.025			
03	Arsenic	3	100	9.05	14.75	0.39	37.82051282	100
03	Barium	3	100	280.5	728			
03	Benzo(g,h,i)perylene	3	33.33	0.0425	0.0425			
03	Beryllium	3	100	3.755	4.14	1400	0.002957143	
03	Butylbenzylphthalate	3	33.33	0.0592	0.0592			
03	Cadmium (Food)	3	100	0.2475	0.3045	1800	0.000169167	
03	Chromium	3	100	5.895	10.7			
03	Cobalt	3	100	5.42	10.45			
03	Copper	3	100	63.5	79.15			
03	Cyanide	3	33.33	0.261	0.261			
03	Endosulfan Sulfate	3	33.33	0.0625	0.0625			
03	Ethylbenzene	3	33.33	0.00068	0.00068	5.7	0.000119298	
03	Fluoranthene	3	33.33	0.03735	0.03735			
03	Iron	3	100	17250	31850			
03	Isopropylbenzene	3	33.33	0.000586	0.000586			
03	Lead	3	100	32	73			
03	m,p-Xylenes	3	33.33	0.000964	0.000964			
03	Manganese (food)	3	100	514.5	708			
03	Methylene Chloride	3	33.33	0.0066	0.0066	11	0.0006	
03	Nickel	3	100	7.38	14.3			
03	n-Propylbenzene	3	33.33	0.000516	0.000516			
03	Pyrene	3	33.33	0.03515	0.03515			
03	Selenium	3	100	0.1655	0.3525			
03	Silver	3	66.67	0.124	0.14			
03	Thallium	3	100	1.8	2.915			
03	Tin	3	100	1.97	9.695			
03	Toluene	3	66.67	0.006395	0.016615			
03	Total Carcinogenic PAHS (BaP TEQs)	3	66.67	0.0000133	0.04462655	0.015	2.975103333	33.33333333
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	8.36635E-07	2.37915E-06	0.0000045	0.5287	
03	TOTAL HPCDD	3	100	0.0000105	0.0000195			
03	TOTAL HPCDF	3	66.67	0.00000845	0.0000108			
03	TOTAL HXCDD	3	100	0.0000074	0.000011			
03	TOTAL HXCDF	3	100	0.00001035	0.0000195			
03	TOTAL PECDD	3	100	0.0000049	0.000007			
03	TOTAL PECDF	3	100	0.0000072	0.0000205			
03	Total Solids	1	100	90	90			
03	TOTAL TCDD	3	100	0.00000355	0.000007			
03	TOTAL TCDF	3	100	0.00000455	0.000023			
03	Vanadium	3	100	38.85	86.75			
03	Zinc	3	100	79.45	109			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3	66.67	0.00432	0.1765	43000	4.10465E-06	
03	2-Butanone (methyl ethyl ketone)	3	33.33	0.00685	0.00685	28000	2.44643E-07	
03	4,4--DDE	2	50	0.001165	0.001165			
03	Acetone	3	66.67	0.0185	0.0586	61000	9.60656E-07	
03	Aluminum	3	100	33850	56600	77000	0.735064935	
03	Antimony	3	100	0.3775	1.025	31	0.033064516	
03	Arsenic	3	100	9.05	14.75	22	0.670454545	
03	Barium	3	100	280.5	728	15000	0.048533333	
03	Benzo(g,h,i)perylene	3	33.33	0.0425	0.0425			
03	Beryllium	3	100	3.755	4.14	160	0.025875	
03	Butylbenzylphthalate	3	33.33	0.0592	0.0592	12000	4.93333E-06	
03	Cadmium (Food)	3	100	0.2475	0.3045	70	0.00435	
03	Chromium	3	100	5.895	10.7			
03	Cobalt	3	100	5.42	10.45			
03	Copper	3	100	63.5	79.15	3100	0.025532258	
03	Cyanide	3	33.33	0.261	0.261	1600	0.000163125	
03	Endosulfan Sulfate	3	33.33	0.0625	0.0625			
03	Ethylbenzene	3	33.33	0.00068	0.00068	3600	1.88889E-07	
03	Fluoranthene	3	33.33	0.03735	0.03735	2300	1.62391E-05	
03	Iron	3	100	17250	31850	55000	0.579090909	
03	Isopropylbenzene	3	33.33	0.000586	0.000586	2200	2.66364E-07	
03	Lead	3	100	32	73	400	0.1825	
03	m,p-Xylenes	3	33.33	0.000964	0.000964	600	1.60667E-06	
03	Manganese (food)	3	100	514.5	708			
03	Methylene Chloride	3	33.33	0.0066	0.0066	1700	3.88235E-06	
03	Nickel	3	100	7.38	14.3	1600	0.0089375	
03	n-Propylbenzene	3	33.33	0.000516	0.000516			
03	Pyrene	3	33.33	0.03515	0.03515	1700	2.06765E-05	
03	Selenium	3	100	0.1655	0.3525	390	0.000903846	
03	Silver	3	66.67	0.124	0.14	390	0.000358974	
03	Thallium	3	100	1.8	2.915	5.1	0.571568627	
03	Tin	3	100	1.97	9.695	47000	0.000206277	
03	Toluene	3	66.67	0.006395	0.016615	5000	0.000003323	
03	Total Carcinogenic PAHS (BaP TEQs)	3	66.67	0.0000133	0.04462655			
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	8.36635E-07	2.37915E-06	0.000072	0.03304375	
03	TOTAL HPCDD	3	100	0.0000105	0.0000195			
03	TOTAL HPCDF	3	66.67	0.00000845	0.0000108			
03	TOTAL HXCDD	3	100	0.0000074	0.000011			
03	TOTAL HXCDF	3	100	0.00001035	0.0000195			
03	TOTAL PECDD	3	100	0.0000049	0.000007			
03	TOTAL PECDF	3	100	0.0000072	0.0000205			
03	Total Solids	1	100	90	90			
03	TOTAL TCDD	3	100	0.00000355	0.000007			
03	TOTAL TCDF	3	100	0.00000455	0.000023			
03	Vanadium	3	100	38.85	86.75	550	0.157727273	
03	Zinc	3	100	79.45	109	23000	0.00473913	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3	66.67	0.00432	0.1765			
03	2-Butanone (methyl ethyl ketone)	3	33.33	0.00685	0.00685			
03	4,4--DDE	2	50	0.001165	0.001165			
03	Acetone	3	66.67	0.0185	0.0586			
03	Aluminum	3	100	33850	56600	86900	0.65132336	
03	Antimony	3	100	0.3775	1.025	42.8	0.023948598	
03	Arsenic	3	100	9.05	14.75	164	0.089939024	
03	Barium	3	100	280.5	728	1813	0.401544402	
03	Benzo(g,h,i)perylene	3	33.33	0.0425	0.0425			
03	Beryllium	3	100	3.755	4.14			
03	Butylbenzylphthalate	3	33.33	0.0592	0.0592			
03	Cadmium (Food)	3	100	0.2475	0.3045	10.6	0.028726415	
03	Chromium	3	100	5.895	10.7	579	0.018480138	
03	Cobalt	3	100	5.42	10.45	36.6	0.285519126	
03	Copper	3	100	63.5	79.15	3965	0.019962169	
03	Cyanide	3	33.33	0.261	0.261			
03	Endosulfan Sulfate	3	33.33	0.0625	0.0625			
03	Ethylbenzene	3	33.33	0.00068	0.00068			
03	Fluoranthene	3	33.33	0.03735	0.03735			
03	Iron	3	100	17250	31850	154600	0.206015524	
03	Isopropylbenzene	3	33.33	0.000586	0.000586			
03	Lead	3	100	32	73	2052	0.035575049	
03	m,p-Xylenes	3	33.33	0.000964	0.000964			
03	Manganese (food)	3	100	514.5	708	5923	0.11953402	
03	Methylene Chloride	3	33.33	0.0066	0.0066			
03	Nickel	3	100	7.38	14.3	689	0.020754717	
03	n-Propylbenzene	3	33.33	0.000516	0.000516			
03	Pyrene	3	33.33	0.03515	0.03515			
03	Selenium	3	100	0.1655	0.3525	1.9	0.185526316	
03	Silver	3	66.67	0.124	0.14	8.132	0.017215937	
03	Thallium	3	100	1.8	2.915	69	0.042246377	
03	Tin	3	100	1.97	9.695			
03	Toluene	3	66.67	0.006395	0.016615			
03	Total Carcinogenic PAHS (BaP TEQs)	3	66.67	0.0000133	0.04462655			
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	8.36635E-07	2.37915E-06			
03	TOTAL HPCDD	3	100	0.0000105	0.0000195			
03	TOTAL HPCDF	3	66.67	0.00000845	0.0000108			
03	TOTAL HXCDD	3	100	0.0000074	0.000011			
03	TOTAL HXCDF	3	100	0.00001035	0.0000195			
03	TOTAL PECDD	3	100	0.0000049	0.000007			
03	TOTAL PECDF	3	100	0.0000072	0.0000205			
03	Total Solids	1	100	90	90			
03	TOTAL TCDD	3	100	0.00000355	0.000007			
03	TOTAL TCDF	3	100	0.00000455	0.000023			
03	Vanadium	3	100	38.85	86.75	187	0.463903743	
03	Zinc	3	100	79.45	109	3211	0.033945811	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3	66.67	0.00577	0.0064			
04	Aluminum	3	100	23400	40500			
04	Antimony	3	100	0.279	0.8			
04	Arsenic	3	100	8.75	12	0.39	30.76923077	100
04	Barium	3	100	181	314			
04	Beryllium	3	100	2.88	4.46	1400	0.003185714	
04	Bis(2-ethylhexyl)phthalate	3	33.33	0.152	0.152	35	0.004342857	
04	Cadmium (Food)	3	100	0.141	0.341	1800	0.000189444	
04	Chromium	3	100	2.43	29.2			
04	Cobalt	3	100	2.69	5.3			
04	Copper	3	100	22.4	43.3			
04	Cyanide	3	33.33	0.16	0.16			
04	Endosulfan II	3	33.33	0.0161	0.0161			
04	Heptachlor Epoxide	3	33.33	0.0471	0.0471	0.053	0.888679245	
04	Iron	3	100	11800	19900			
04	Lead	3	100	23.3	48.1			
04	Manganese (food)	3	100	377	624			
04	Nickel	3	100	2.1	7.06			
04	Selenium	3	100	0.0899	0.231			
04	Silver	3	66.67	0.102	0.221			
04	Thallium	3	33.33	1.99	1.99			
04	Tin	3	100	1.94	2.89			
04	Toluene	3	100	0.00139	0.00795			
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	2.7777E-07	1.10098E-06	0.0000045	0.244662222	
04	TOTAL HPCDD	3	100	0.0000044	0.000021			
04	TOTAL HPCDF	3	100	0.0000052	0.000011			
04	TOTAL HXCDD	3	100	0.0000018	0.0000087			
04	TOTAL HXCDF	3	100	0.0000037	0.000012			
04	TOTAL PECDD	3	100	0.0000086	0.000046			
04	TOTAL PECDF	3	100	0.0000053	0.00001			
04	TOTAL TCDD	3	100	0.0000013	0.0000034			
04	TOTAL TCDF	3	100	0.0000034	0.0000077			
04	Vanadium	3	100	27	42.7			
04	Zinc	3	100	63.3	85.1			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3	66.67	0.00577	0.0064	43000	1.48837E-07	
04	Aluminum	3	100	23400	40500	77000	0.525974026	
04	Antimony	3	100	0.279	0.8	31	0.025806452	
04	Arsenic	3	100	8.75	12	22	0.545454545	
04	Barium	3	100	181	314	15000	0.020933333	
04	Beryllium	3	100	2.88	4.46	160	0.027875	
04	Bis(2-ethylhexyl)phthalate	3	33.33	0.152	0.152	1200	0.000126667	
04	Cadmium (Food)	3	100	0.141	0.341	70	0.004871429	
04	Chromium	3	100	2.43	29.2			
04	Cobalt	3	100	2.69	5.3			
04	Copper	3	100	22.4	43.3	3100	0.013967742	
04	Cyanide	3	33.33	0.16	0.16	1600	0.0001	
04	Endosulfan II	3	33.33	0.0161	0.0161			
04	Heptachlor Epoxide	3	33.33	0.0471	0.0471	0.79	0.059620253	
04	Iron	3	100	11800	19900	55000	0.361818182	
04	Lead	3	100	23.3	48.1	400	0.12025	
04	Manganese (food)	3	100	377	624			
04	Nickel	3	100	2.1	7.06	1600	0.0044125	
04	Selenium	3	100	0.0899	0.231	390	0.000592308	
04	Silver	3	66.67	0.102	0.221	390	0.000566667	
04	Thallium	3	33.33	1.99	1.99	5.1	0.390196078	
04	Tin	3	100	1.94	2.89	47000	6.14894E-05	
04	Toluene	3	100	0.00139	0.00795	5000	0.00000159	
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	2.7777E-07	1.10098E-06	0.000072	0.015291389	
04	TOTAL HPCDD	3	100	0.0000044	0.000021			
04	TOTAL HPCDF	3	100	0.0000052	0.000011			
04	TOTAL HXCDD	3	100	0.0000018	0.0000087			
04	TOTAL HXCDF	3	100	0.0000037	0.000012			
04	TOTAL PECDD	3	100	0.00000086	0.0000046			
04	TOTAL PECDF	3	100	0.0000053	0.00001			
04	TOTAL TCDD	3	100	0.0000013	0.0000034			
04	TOTAL TCDF	3	100	0.0000034	0.0000077			
04	Vanadium	3	100	27	42.7	550	0.077636364	
04	Zinc	3	100	63.3	85.1	23000	0.0037	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3	66.67	0.00577	0.0064			
04	Aluminum	3	100	23400	40500	86900	0.466052934	
04	Antimony	3	100	0.279	0.8	42.8	0.018691589	
04	Arsenic	3	100	8.75	12	164	0.073170732	
04	Barium	3	100	181	314	1813	0.173193602	
04	Beryllium	3	100	2.88	4.46			
04	Bis(2-ethylhexyl)phthalate	3	33.33	0.152	0.152			
04	Cadmium (Food)	3	100	0.141	0.341	10.6	0.032169811	
04	Chromium	3	100	2.43	29.2	579	0.050431779	
04	Cobalt	3	100	2.69	5.3	36.6	0.144808743	
04	Copper	3	100	22.4	43.3	3965	0.010920555	
04	Cyanide	3	33.33	0.16	0.16			
04	Endosulfan II	3	33.33	0.0161	0.0161			
04	Heptachlor Epoxide	3	33.33	0.0471	0.0471			
04	Iron	3	100	11800	19900	154600	0.128719276	
04	Lead	3	100	23.3	48.1	2052	0.023440546	
04	Manganese (food)	3	100	377	624	5923	0.105352018	
04	Nickel	3	100	2.1	7.06	689	0.010246734	
04	Selenium	3	100	0.0899	0.231	1.9	0.121578947	
04	Silver	3	66.67	0.102	0.221	8.132	0.027176586	
04	Thallium	3	33.33	1.99	1.99	69	0.02884058	
04	Tin	3	100	1.94	2.89			
04	Toluene	3	100	0.00139	0.00795			
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	2.7777E-07	1.10098E-06			
04	TOTAL HPCDD	3	100	0.0000044	0.000021			
04	TOTAL HPCDF	3	100	0.0000052	0.000011			
04	TOTAL HXCDD	3	100	0.0000018	0.0000087			
04	TOTAL HXCDF	3	100	0.0000037	0.000012			
04	TOTAL PECDD	3	100	0.00000086	0.0000046			
04	TOTAL PECDF	3	100	0.0000053	0.00001			
04	TOTAL TCDD	3	100	0.0000013	0.0000034			
04	TOTAL TCDF	3	100	0.0000034	0.0000077			
04	Vanadium	3	100	27	42.7	187	0.228342246	
04	Zinc	3	100	63.3	85.1	3211	0.026502647	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,1,2,2-Tetrachloroethane	33	3.03	0.0018	0.0018	0.59	0.003050847	
05	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	33	45.45	0.000848	0.235			
05	1,1'-Biphenyl	33	6.06	0.0176	0.0188			
05	1,2,3-Trichlorobenzene	33	3.03	0.000633	0.000633			
05	1,2,4-Trichlorobenzene	33	3.03	0.00038	0.00038	180	2.11111E-06	
05	1,2,4-Trimethylbenzene	33	9.09	0.00286	0.00468			
05	1,2-Dichlorobenzene	33	15.15	0.000134	0.00316			
05	1,2-Dichloroethane	33	3.03	0.00157	0.00157	0.45	0.003488889	
05	1,3,5-Trimethylbenzene	33	15.15	0.00132	0.00405			
05	1,3-Dichlorobenzene	33	9.09	0.00164	0.0032			
05	1,3-Dichloropropane	33	3.03	0.00162	0.00162			
05	1,4-Dichlorobenzene	33	15.15	0.000127	0.0023	2.6	0.000884615	
05	2,4,6-Trichlorophenol	33	3.03	0.0825	0.0825	44	0.001875	
05	2,6-Dichlorophenol	33	6.06	0.0551	0.0588			
05	2-Chloronaphthalene	33	6.06	0.0129	0.0129			
05	2-Chlorophenol	33	3.03	0.0604	0.0604			
05	2-Chlorotoluene	33	9.09	0.00323	0.00509			
05	2-Hexanone	33	6.06	0.00137	0.00272			
05	2-Methylnaphthalene	33	9.09	0.0227	0.0358			
05	2-Methylphenol (o-Cresol)	33	3.03	0.0465	0.0465			
05	3&4-Methylphenol	33	3.03	0.0738	0.0738			
05	4,4-DDE	27	7.41	0.000588	0.0007	1.4	0.0005	
05	4,4-DDT	29	3.45	0.0009	0.0009	1.7	0.000529412	
05	4-Chloro-3-Methylphenol	33	3.03	0.23	0.23			
05	4-Chlorotoluene	33	9.09	0.00215	0.00357			
05	4-Isopropyltoluene	33	24.24	0.0004445	0.0204			
05	4-Methyl-2-Pentanone	33	6.06	0.000784	0.00231			
05	Acenaphthene	33	9.09	0.0117	0.0125			
05	Acenaphthylene	33	12.12	0.0117	0.0852			
05	Acetone	33	36.36	0.0089	0.0485			
05	alpha-Chlordane	32	3.13	0.000814	0.000814			
05	Aluminum	33	100	19500	57310			
05	Anthracene	33	6.06	0.0515	0.0599			
05	Antimony	33	100	0.312	0.798			
05	Arsenic	33	100	7.46	19.5	0.39	50	100
05	Barium	33	100	147	530			
05	Benzo(g,h,i)perylene	33	12.12	0.0344	0.323			
05	Beryllium	33	100	2.85	8	1400	0.005714286	
05	Bis(2-ethylhexyl)phthalate	33	39.39	0.119	0.774	35	0.022114286	
05	Butylbenzylphthalate	33	12.12	0.0375	0.198			
05	Cadmium (Food)	33	100	0.095	0.389	1800	0.000216111	
05	Carbazole	33	6.06	0.0347	0.0443	24	0.001845833	
05	Chlorobenzene	33	18.18	0.0014	0.00509			
05	Chloroform	33	15.15	0.00104	0.0225	0.3	0.075	
05	Chromium	33	93.94	2.74	132			
05	Cobalt	33	100	3	7.7			
05	Copper	33	100	5.31	76.3			
05	Cyanide	31	9.68	0.147	0.258			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,1,2,2-Tetrachloroethane	33	3.03	0.0018	0.0018			
05	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	33	45.45	0.000848	0.235	43000	5.46512E-06	
05	1,1'-Biphenyl	33	6.06	0.0176	0.0188	3900	4.82051E-06	
05	1,2,3-Trichlorobenzene	33	3.03	0.000633	0.000633			
05	1,2,4-Trichlorobenzene	33	3.03	0.00038	0.00038	780	4.87179E-07	
05	1,2,4-Trimethylbenzene	33	9.09	0.00286	0.00468	67	6.98507E-05	
05	1,2-Dichlorobenzene	33	15.15	0.000134	0.00316	2000	0.00000158	
05	1,2-Dichloroethane	33	3.03	0.00157	0.00157	13000	1.20769E-07	
05	1,3,5-Trimethylbenzene	33	15.15	0.00132	0.00405			
05	1,3-Dichlorobenzene	33	9.09	0.00164	0.0032			
05	1,3-Dichloropropane	33	3.03	0.00162	0.00162	1600	1.0125E-06	
05	1,4-Dichlorobenzene	33	15.15	0.000127	0.0023	10000	0.00000023	
05	2,4,6-Trichlorophenol	33	3.03	0.0825	0.0825	61	0.001352459	
05	2,6-Dichlorophenol	33	6.06	0.0551	0.0588			
05	2-Chloronaphthalene	33	6.06	0.0129	0.0129	6300	2.04762E-06	
05	2-Chlorophenol	33	3.03	0.0604	0.0604	390	0.000154872	
05	2-Chlorotoluene	33	9.09	0.00323	0.00509	1600	3.18125E-06	
05	2-Hexanone	33	6.06	0.00137	0.00272			
05	2-Methylnaphthalene	33	9.09	0.0227	0.0358	310	0.000115484	
05	2-Methylphenol (o-Cresol)	33	3.03	0.0465	0.0465	3100	0.000015	
05	3&4-Methylphenol	33	3.03	0.0738	0.0738	310	0.000238065	
05	4,4--DDE	27	7.41	0.000588	0.0007			
05	4,4-DDT	29	3.45	0.0009	0.0009	36	0.000025	
05	4-Chloro-3-Methylphenol	33	3.03	0.23	0.23			
05	4-Chlorotoluene	33	9.09	0.00215	0.00357	5500	6.49091E-07	
05	4-Isopropyltoluene	33	24.24	0.0004445	0.0204			
05	4-Methyl-2-Pentanone	33	6.06	0.000784	0.00231	5300	4.35849E-07	
05	Acenaphthene	33	9.09	0.0117	0.0125	3400	3.67647E-06	
05	Acenaphthylene	33	12.12	0.0117	0.0852			
05	Acetone	33	36.36	0.0089	0.0485	61000	7.95082E-07	
05	alpha-Chlordane	32	3.13	0.000814	0.000814			
05	Aluminum	33	100	19500	57310	77000	0.744285714	
05	Anthracene	33	6.06	0.0515	0.0599	17000	3.52353E-06	
05	Antimony	33	100	0.312	0.798	31	0.025741935	
05	Arsenic	33	100	7.46	19.5	22	0.886363636	
05	Barium	33	100	147	530	15000	0.035333333	
05	Benzo(g,h,i)perylene	33	12.12	0.0344	0.323			
05	Beryllium	33	100	2.85	8	160	0.05	
05	Bis(2-ethylhexyl)phthalate	33	39.39	0.119	0.774	1200	0.000645	
05	Butylbenzylphthalate	33	12.12	0.0375	0.198	12000	0.0000165	
05	Cadmium (Food)	33	100	0.095	0.389	70	0.005557143	
05	Carbazole	33	6.06	0.0347	0.0443			
05	Chlorobenzene	33	18.18	0.0014	0.00509	310	1.64194E-05	
05	Chloroform	33	15.15	0.00104	0.0225	220	0.000102273	
05	Chromium	33	93.94	2.74	132			
05	Cobalt	33	100	3	7.7			
05	Copper	33	100	5.31	76.3	3100	0.024612903	
05	Cyanide	31	9.68	0.147	0.258	1600	0.00016125	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,1,2,2-Tetrachloroethane	33	3.03	0.0018	0.0018			
05	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	33	45.45	0.000848	0.235			
05	1,1'-Biphenyl	33	6.06	0.0176	0.0188			
05	1,2,3-Trichlorobenzene	33	3.03	0.000633	0.000633			
05	1,2,4-Trichlorobenzene	33	3.03	0.00038	0.00038			
05	1,2,4-Trimethylbenzene	33	9.09	0.00286	0.00468			
05	1,2-Dichlorobenzene	33	15.15	0.000134	0.00316			
05	1,2-Dichloroethane	33	3.03	0.00157	0.00157			
05	1,3,5-Trimethylbenzene	33	15.15	0.00132	0.00405			
05	1,3-Dichlorobenzene	33	9.09	0.00164	0.0032			
05	1,3-Dichloropropane	33	3.03	0.00162	0.00162			
05	1,4-Dichlorobenzene	33	15.15	0.000127	0.0023			
05	2,4,6-Trichlorophenol	33	3.03	0.0825	0.0825			
05	2,6-Dichlorophenol	33	6.06	0.0551	0.0588			
05	2-Chloronaphthalene	33	6.06	0.0129	0.0129			
05	2-Chlorophenol	33	3.03	0.0604	0.0604			
05	2-Chlorotoluene	33	9.09	0.00323	0.00509			
05	2-Hexanone	33	6.06	0.00137	0.00272			
05	2-Methylnaphthalene	33	9.09	0.0227	0.0358			
05	2-Methylphenol (o-Cresol)	33	3.03	0.0465	0.0465			
05	3&4-Methylphenol	33	3.03	0.0738	0.0738			
05	4,4--DDE	27	7.41	0.000588	0.0007			
05	4,4-DDT	29	3.45	0.0009	0.0009			
05	4-Chloro-3-Methylphenol	33	3.03	0.23	0.23			
05	4-Chlorotoluene	33	9.09	0.00215	0.00357			
05	4-Isopropyltoluene	33	24.24	0.0004445	0.0204			
05	4-Methyl-2-Pentanone	33	6.06	0.000784	0.00231			
05	Acenaphthene	33	9.09	0.0117	0.0125			
05	Acenaphthylene	33	12.12	0.0117	0.0852			
05	Acetone	33	36.36	0.0089	0.0485			
05	alpha-Chlordane	32	3.13	0.000814	0.000814			
05	Aluminum	33	100	19500	57310	86900	0.659493671	
05	Anthracene	33	6.06	0.0515	0.0599			
05	Antimony	33	100	0.312	0.798	42.8	0.01864486	
05	Arsenic	33	100	7.46	19.5	164	0.118902439	
05	Barium	33	100	147	530	1813	0.292333149	
05	Benzo(g,h,i)perylene	33	12.12	0.0344	0.323			
05	Beryllium	33	100	2.85	8			
05	Bis(2-ethylhexyl)phthalate	33	39.39	0.119	0.774			
05	Butylbenzylphthalate	33	12.12	0.0375	0.198			
05	Cadmium (Food)	33	100	0.095	0.389	10.6	0.036698113	
05	Carbazole	33	6.06	0.0347	0.0443			
05	Chlorobenzene	33	18.18	0.0014	0.00509			
05	Chloroform	33	15.15	0.00104	0.0225			
05	Chromium	33	93.94	2.74	132	579	0.227979275	
05	Cobalt	33	100	3	7.7	36.6	0.210382514	
05	Copper	33	100	5.31	76.3	3965	0.01924338	
05	Cyanide	31	9.68	0.147	0.258			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Dibenzofuran	33	6.06	0.0125	0.0183			
05	Di-n-butylphthalate	33	9.09	0.0505	0.0645			
05	Di-n-octylphthalate	33	3.03	0.03	0.03			
05	Endosulfan I	33	3.03	0.00116	0.00116			
05	Endosulfan II	26	3.85	0.0183	0.0183			
05	Ethylbenzene	33	30.3	0.000562	0.00848	5.7	0.001487719	
05	Fluoranthene	33	15.15	0.023	1.37			
05	Fluorene	33	3.03	0.0357	0.0357			
05	Hexachloroethane	33	3.03	0.0227	0.0227	35	0.000648571	
05	Iron	33	100	11300	29725			
05	Isopropylbenzene	33	24.24	0.000685	0.00609			
05	Lead	33	100	26.7	236			
05	m,p-Xylenes	33	27.27	0.00112	0.0127			
05	Manganese (food)	33	100	365	951			
05	Methylene Chloride	33	3.03	0.00592	0.00592	11	0.000538182	
05	Naphthalene	33	9.09	0.0107	0.0166	3.9	0.00425641	
05	n-Butylbenzene	33	18.18	0.0004	0.00265			
05	Nickel	33	100	2.06	9.3			
05	Nitrobenzene	33	3.03	0.0227	0.0227			
05	n-Propylbenzene	33	24.24	0.0005225	0.00366			
05	o-Xylene	33	21.21	0.000437	0.0066			
05	Phenanthrene	33	6.06	0.364	0.597			
05	Phenol	33	6.06	0.0425	0.0555			
05	Pyrene	33	15.15	0.0307	1.1			
05	sec-Butylbenzene	33	24.24	0.000423	0.0037			
05	Selenium	33	60.61	0.0899	0.72			
05	Silver	33	42.42	0.105	0.264			
05	Styrene	33	18.18	0.00132	0.00371			
05	tert-Butylbenzene	33	21.21	0.0006965	0.00616			
05	Thallium	33	48.48	0.921	3.9			
05	Tin	33	100	1.72	4.08			
05	Toluene	33	60.61	0.000831	0.14			
05	Total Carcinogenic PAHS (BaP TEQs)	33	15.15	0.0245467	0.609503	0.015	40.63353333	15.15151515
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	33	96.97	1.35E-09	0.000008427	0.0000045	1.872666667	6.060606061
05	TOTAL HPCDD	33	96.97	0.00000096	0.00017			
05	TOTAL HPCDF	33	90.91	0.0000011	0.000085			
05	TOTAL HXCDD	33	93.94	0.00000037	0.000056			
05	TOTAL HXCDF	33	93.94	0.00000081	0.000084			
05	TOTAL PECDD	33	93.94	0.00000018	0.000046			
05	TOTAL PECDF	33	93.94	0.00000048	0.0001			
05	Total Solids	24	100	69.4	90.8			
05	TOTAL TCDD	33	93.94	0.00000046	0.000026			
05	TOTAL TCDF	33	93.94	0.00000048	0.000095			
05	Total Trihalomethanes	33	15.15	0.00104	0.0225			
05	Vanadium	33	100	25.5	56.7			
05	Zinc	33	100	40.3	196.5			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Dibenzofuran	33	6.06	0.0125	0.0183			
05	Di-n-butylphthalate	33	9.09	0.0505	0.0645	6100	1.05738E-05	
05	Di-n-octylphthalate	33	3.03	0.03	0.03			
05	Endosulfan I	33	3.03	0.00116	0.00116			
05	Endosulfan II	26	3.85	0.0183	0.0183			
05	Ethylbenzene	33	30.3	0.000562	0.00848	3600	2.35556E-06	
05	Fluoranthene	33	15.15	0.023	1.37	2300	0.000595652	
05	Fluorene	33	3.03	0.0357	0.0357	2300	1.55217E-05	
05	Hexachloroethane	33	3.03	0.0227	0.0227	61	0.000372131	
05	Iron	33	100	11300	29725	55000	0.540454545	
05	Isopropylbenzene	33	24.24	0.000685	0.00609	2200	2.76818E-06	
05	Lead	33	100	26.7	236	400	0.59	
05	m,p-Xylenes	33	27.27	0.00112	0.0127	600	2.11667E-05	
05	Manganese (food)	33	100	365	951			
05	Methylene Chloride	33	3.03	0.00592	0.00592	1700	3.48235E-06	
05	Naphthalene	33	9.09	0.0107	0.0166	150	0.000110667	
05	n-Butylbenzene	33	18.18	0.0004	0.00265			
05	Nickel	33	100	2.06	9.3	1600	0.0058125	
05	Nitrobenzene	33	3.03	0.0227	0.0227	31	0.000732258	
05	n-Propylbenzene	33	24.24	0.0005225	0.00366			
05	o-Xylene	33	21.21	0.000437	0.0066	5300	1.24528E-06	
05	Phenanthrene	33	6.06	0.364	0.597			
05	Phenol	33	6.06	0.0425	0.0555	18000	3.08333E-06	
05	Pyrene	33	15.15	0.0307	1.1	1700	0.000647059	
05	sec-Butylbenzene	33	24.24	0.000423	0.0037			
05	Selenium	33	60.61	0.0899	0.72	390	0.001846154	
05	Silver	33	42.42	0.105	0.264	390	0.000676923	
05	Styrene	33	18.18	0.00132	0.00371	6500	5.70769E-07	
05	tert-Butylbenzene	33	21.21	0.0006965	0.00616			
05	Thallium	33	48.48	0.921	3.9	5.1	0.764705882	
05	Tin	33	100	1.72	4.08	47000	8.68085E-05	
05	Toluene	33	60.61	0.000831	0.14	5000	0.000028	
05	Total Carcinogenic PAHS (BaP TEQs)	33	15.15	0.0245467	0.609503			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	33	96.97	1.35E-09	0.000008427	0.000072	0.117041667	
05	TOTAL HPCDD	33	96.97	0.00000096	0.00017			
05	TOTAL HPCDF	33	90.91	0.0000011	0.000085			
05	TOTAL HXCDD	33	93.94	0.00000037	0.000056			
05	TOTAL HXCDF	33	93.94	0.00000081	0.000084			
05	TOTAL PECDD	33	93.94	0.00000018	0.000046			
05	TOTAL PECDF	33	93.94	0.00000048	0.0001			
05	Total Solids	24	100	69.4	90.8			
05	TOTAL TCDD	33	93.94	0.00000046	0.000026			
05	TOTAL TCDF	33	93.94	0.00000048	0.000095			
05	Total Trihalomethanes	33	15.15	0.00104	0.0225			
05	Vanadium	33	100	25.5	56.7	550	0.103090909	
05	Zinc	33	100	40.3	196.5	23000	0.008543478	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Dibenzofuran	33	6.06	0.0125	0.0183			
05	Di-n-butylphthalate	33	9.09	0.0505	0.0645			
05	Di-n-octylphthalate	33	3.03	0.03	0.03			
05	Endosulfan I	33	3.03	0.00116	0.00116			
05	Endosulfan II	26	3.85	0.0183	0.0183			
05	Ethylbenzene	33	30.3	0.000562	0.00848			
05	Fluoranthene	33	15.15	0.023	1.37			
05	Fluorene	33	3.03	0.0357	0.0357			
05	Hexachloroethane	33	3.03	0.0227	0.0227			
05	Iron	33	100	11300	29725	154600	0.192270375	
05	Isopropylbenzene	33	24.24	0.000685	0.00609			
05	Lead	33	100	26.7	236	2052	0.115009747	
05	m,p-Xylenes	33	27.27	0.00112	0.0127			
05	Manganese (food)	33	100	365	951	5923	0.160560527	
05	Methylene Chloride	33	3.03	0.00592	0.00592			
05	Naphthalene	33	9.09	0.0107	0.0166			
05	n-Butylbenzene	33	18.18	0.0004	0.00265			
05	Nickel	33	100	2.06	9.3	689	0.013497823	
05	Nitrobenzene	33	3.03	0.0227	0.0227			
05	n-Propylbenzene	33	24.24	0.0005225	0.00366			
05	o-Xylene	33	21.21	0.000437	0.0066			
05	Phenanthrene	33	6.06	0.364	0.597			
05	Phenol	33	6.06	0.0425	0.0555			
05	Pyrene	33	15.15	0.0307	1.1			
05	sec-Butylbenzene	33	24.24	0.000423	0.0037			
05	Selenium	33	60.61	0.0899	0.72	1.9	0.378947368	
05	Silver	33	42.42	0.105	0.264	8.132	0.032464338	
05	Styrene	33	18.18	0.00132	0.00371			
05	tert-Butylbenzene	33	21.21	0.0006965	0.00616			
05	Thallium	33	48.48	0.921	3.9	69	0.056521739	
05	Tin	33	100	1.72	4.08			
05	Toluene	33	60.61	0.000831	0.14			
05	Total Carcinogenic PAHS (BaP TEQs)	33	15.15	0.0245467	0.609503			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	33	96.97	1.35E-09	0.000008427			
05	TOTAL HPCDD	33	96.97	0.00000096	0.00017			
05	TOTAL HPCDF	33	90.91	0.0000011	0.000085			
05	TOTAL HXCDD	33	93.94	0.00000037	0.000056			
05	TOTAL HXCDF	33	93.94	0.00000081	0.000084			
05	TOTAL PECDD	33	93.94	0.00000018	0.000046			
05	TOTAL PECDF	33	93.94	0.00000048	0.0001			
05	Total Solids	24	100	69.4	90.8			
05	TOTAL TCDD	33	93.94	0.00000046	0.000026			
05	TOTAL TCDF	33	93.94	0.00000048	0.000095			
05	Total Trihalomethanes	33	15.15	0.00104	0.0225			
05	Vanadium	33	100	25.5	56.7	187	0.303208556	
05	Zinc	33	100	40.3	196.5	3211	0.061195889	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8	37.5	0.00474	0.0236			
06	1,2,4-Trimethylbenzene	8	12.5	0.00196	0.00196			
06	1,2-Dichlorobenzene	8	12.5	0.00119	0.00119			
06	1,2-Dichloroethane	8	12.5	0.00203	0.00203	0.45	0.004511111	
06	1,3,5-Trimethylbenzene	8	12.5	0.00213	0.00213			
06	1,3-Dichlorobenzene	8	12.5	0.00103	0.00103			
06	1,3-Dichloropropane	8	12.5	0.00269	0.00269			
06	1,4-Dichlorobenzene	8	12.5	0.00115	0.00115	2.6	0.000442308	
06	2-Chlorotoluene	8	12.5	0.00227	0.00227			
06	4-Chlorotoluene	8	12.5	0.00204	0.00204			
06	4-Isopropyltoluene	8	12.5	0.00155	0.00155			
06	Acetone	8	37.5	0.00801	0.0322			
06	Aluminum	8	100	32400	40000			
06	Antimony	8	100	0.39	1.54			
06	Arsenic	8	100	10	13.3	0.39	34.1025641	100
06	Barium	8	100	273	370			
06	Benzene	8	12.5	0.000543	0.000543	1.1	0.000493636	
06	Beryllium	8	100	4	5.9	1400	0.004214286	
06	Bis(2-ethylhexyl)phthalate	8	25	0.13	0.13	35	0.003714286	
06	Bromodichloromethane	8	12.5	0.0017	0.0017	10	0.00017	
06	Cadmium (Food)	8	100	0.13	0.3	1800	0.000166667	
06	Chlorobenzene	8	12.5	0.00273	0.00273			
06	Chromium	8	87.5	3.74	18.1			
06	cis-1,3-Dichloropropene	8	12.5	0.00141	0.00141			
06	Cobalt	8	100	4.5	7.2			
06	Copper	8	100	15	67			
06	Diethylphthalate	8	12.5	0.05	0.05			
06	Di-n-octylphthalate	8	12.5	1.36	1.36			
06	Ethylbenzene	8	50	0.0007	0.00387	5.7	0.000678947	
06	Fluoranthene	8	37.5	0.04	0.065			
06	Iron	8	100	16700	24972			
06	Isopropylbenzene	8	25	0.000761	0.00263			
06	Lead	8	100	31	76.2			
06	m,p-Xylenes	8	25	0.00134	0.00647			
06	Manganese (food)	8	100	506	727			
06	Naphthalene	8	12.5	0.00687	0.00687	3.9	0.001761538	
06	n-Butylbenzene	8	12.5	0.000989	0.000989			
06	Nickel	8	100	4.33	11.1			
06	n-Propylbenzene	8	12.5	0.00209	0.00209			
06	o-Xylene	8	37.5	0.0003	0.00291			
06	Phenanthrene	8	37.5	0.0362	0.08			
06	Pyrene	8	37.5	0.0298	0.0578			
06	sec-Butylbenzene	8	12.5	0.00173	0.00173			
06	Selenium	8	62.5	0.17	0.772			
06	Silver	8	75	0.113	0.255			
06	Styrene	8	37.5	0.0003	0.00278			
06	tert-Butylbenzene	8	12.5	0.00175	0.00175			
06	Thallium	8	75	1.4	3.75			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8	37.5	0.00474	0.0236	43000	5.48837E-07	
06	1,2,4-Trimethylbenzene	8	12.5	0.00196	0.00196	67	2.92537E-05	
06	1,2-Dichlorobenzene	8	12.5	0.00119	0.00119	2000	0.00000595	
06	1,2-Dichloroethane	8	12.5	0.00203	0.00203	13000	1.56154E-07	
06	1,3,5-Trimethylbenzene	8	12.5	0.00213	0.00213			
06	1,3-Dichlorobenzene	8	12.5	0.00103	0.00103			
06	1,3-Dichloropropane	8	12.5	0.00269	0.00269	1600	1.68125E-06	
06	1,4-Dichlorobenzene	8	12.5	0.00115	0.00115	10000	0.00000115	
06	2-Chlorotoluene	8	12.5	0.00227	0.00227	1600	1.41875E-06	
06	4-Chlorotoluene	8	12.5	0.00204	0.00204	5500	3.70909E-07	
06	4-Isopropyltoluene	8	12.5	0.00155	0.00155			
06	Acetone	8	37.5	0.00801	0.0322	61000	5.27869E-07	
06	Aluminum	8	100	32400	40000	77000	0.519480519	
06	Antimony	8	100	0.39	1.54	31	0.049677419	
06	Arsenic	8	100	10	13.3	22	0.604545455	
06	Barium	8	100	273	370	15000	0.024666667	
06	Benzene	8	12.5	0.000543	0.000543	90	6.03333E-06	
06	Beryllium	8	100	4	5.9	160	0.036875	
06	Bis(2-ethylhexyl)phthalate	8	25	0.13	0.13	1200	0.000108333	
06	Bromodichloromethane	8	12.5	0.0017	0.0017	1600	1.0625E-06	
06	Cadmium (Food)	8	100	0.13	0.3	70	0.004285714	
06	Chlorobenzene	8	12.5	0.00273	0.00273	310	8.80645E-06	
06	Chromium	8	87.5	3.74	18.1			
06	cis-1,3-Dichloropropene	8	12.5	0.00141	0.00141			
06	Cobalt	8	100	4.5	7.2			
06	Copper	8	100	15	67	3100	0.021612903	
06	Diethylphthalate	8	12.5	0.05	0.05	49000	1.02041E-06	
06	Di-n-octylphthalate	8	12.5	1.36	1.36			
06	Ethylbenzene	8	50	0.0007	0.00387	3600	0.000001075	
06	Fluoranthene	8	37.5	0.04	0.065	2300	2.82609E-05	
06	Iron	8	100	16700	24972	55000	0.454036364	
06	Isopropylbenzene	8	25	0.000761	0.00263	2200	1.19545E-06	
06	Lead	8	100	31	76.2	400	0.1905	
06	m,p-Xylenes	8	25	0.00134	0.00647	600	1.07833E-05	
06	Manganese (food)	8	100	506	727			
06	Naphthalene	8	12.5	0.00687	0.00687	150	0.0000458	
06	n-Butylbenzene	8	12.5	0.000989	0.000989			
06	Nickel	8	100	4.33	11.1	1600	0.0069375	
06	n-Propylbenzene	8	12.5	0.00209	0.00209			
06	o-Xylene	8	37.5	0.0003	0.00291	5300	5.49057E-07	
06	Phenanthrene	8	37.5	0.0362	0.08			
06	Pyrene	8	37.5	0.0298	0.0578	1700	0.000034	
06	sec-Butylbenzene	8	12.5	0.00173	0.00173			
06	Selenium	8	62.5	0.17	0.772	390	0.001979487	
06	Silver	8	75	0.113	0.255	390	0.000653846	
06	Styrene	8	37.5	0.0003	0.00278	6500	4.27692E-07	
06	tert-Butylbenzene	8	12.5	0.00175	0.00175			
06	Thallium	8	75	1.4	3.75	5.1	0.735294118	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8	37.5	0.00474	0.0236			
06	1,2,4-Trimethylbenzene	8	12.5	0.00196	0.00196			
06	1,2-Dichlorobenzene	8	12.5	0.00119	0.00119			
06	1,2-Dichloroethane	8	12.5	0.00203	0.00203			
06	1,3,5-Trimethylbenzene	8	12.5	0.00213	0.00213			
06	1,3-Dichlorobenzene	8	12.5	0.00103	0.00103			
06	1,3-Dichloropropane	8	12.5	0.00269	0.00269			
06	1,4-Dichlorobenzene	8	12.5	0.00115	0.00115			
06	2-Chlorotoluene	8	12.5	0.00227	0.00227			
06	4-Chlorotoluene	8	12.5	0.00204	0.00204			
06	4-Isopropyltoluene	8	12.5	0.00155	0.00155			
06	Acetone	8	37.5	0.00801	0.0322			
06	Aluminum	8	100	32400	40000	86900	0.460299194	
06	Antimony	8	100	0.39	1.54	42.8	0.035981308	
06	Arsenic	8	100	10	13.3	164	0.081097561	
06	Barium	8	100	273	370	1813	0.204081633	
06	Benzene	8	12.5	0.000543	0.000543			
06	Beryllium	8	100	4	5.9			
06	Bis(2-ethylhexyl)phthalate	8	25	0.13	0.13			
06	Bromodichloromethane	8	12.5	0.0017	0.0017			
06	Cadmium (Food)	8	100	0.13	0.3	10.6	0.028301887	
06	Chlorobenzene	8	12.5	0.00273	0.00273			
06	Chromium	8	87.5	3.74	18.1	579	0.031260794	
06	cis-1,3-Dichloropropene	8	12.5	0.00141	0.00141			
06	Cobalt	8	100	4.5	7.2	36.6	0.196721311	
06	Copper	8	100	15	67	3965	0.016897856	
06	Diethylphthalate	8	12.5	0.05	0.05			
06	Di-n-octylphthalate	8	12.5	1.36	1.36			
06	Ethylbenzene	8	50	0.0007	0.00387			
06	Fluoranthene	8	37.5	0.04	0.065			
06	Iron	8	100	16700	24972	154600	0.16152652	
06	Isopropylbenzene	8	25	0.000761	0.00263			
06	Lead	8	100	31	76.2	2052	0.037134503	
06	m,p-Xylenes	8	25	0.00134	0.00647			
06	Manganese (food)	8	100	506	727	5923	0.122741854	
06	Naphthalene	8	12.5	0.00687	0.00687			
06	n-Butylbenzene	8	12.5	0.000989	0.000989			
06	Nickel	8	100	4.33	11.1	689	0.016110305	
06	n-Propylbenzene	8	12.5	0.00209	0.00209			
06	o-Xylene	8	37.5	0.0003	0.00291			
06	Phenanthrene	8	37.5	0.0362	0.08			
06	Pyrene	8	37.5	0.0298	0.0578			
06	sec-Butylbenzene	8	12.5	0.00173	0.00173			
06	Selenium	8	62.5	0.17	0.772	1.9	0.406315789	
06	Silver	8	75	0.113	0.255	8.132	0.0313576	
06	Styrene	8	37.5	0.0003	0.00278			
06	tert-Butylbenzene	8	12.5	0.00175	0.00175			
06	Thallium	8	75	1.4	3.75	69	0.054347826	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Tin	8	100	2.6	6.69			
06	Toluene	8	62.5	0.0006	0.0192			
06	Total Carcinogenic PAHS (BaP TEQs)	8	25	0.00003	0.0529211	0.015	3.528073333	12.5
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	100	0.0000006	0.00005168	0.0000045	1.148444444	12.5
06	TOTAL HPCDD	8	87.5	0.0000027	0.000025			
06	TOTAL HPCDF	8	87.5	0.0000041	0.00009			
06	TOTAL HXCDD	8	75	0.0000022	0.00003			
06	TOTAL HXCDF	8	87.5	0.0000032	0.000066			
06	TOTAL PECDD	8	75	0.0000004	0.000022			
06	TOTAL PECDF	8	75	0.0000034	0.000083			
06	Total Solids	2	100	86.2	92			
06	TOTAL TCDD	8	75	0.0000011	0.000019			
06	TOTAL TCDF	8	75	0.0000028	0.000096			
06	Total Trihalomethanes	8	12.5	0.0017	0.0017			
06	Vanadium	8	100	32	52.2			
06	Zinc	8	100	64.1	147			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Tin	8	100	2.6	6.69	47000	0.00014234	
06	Toluene	8	62.5	0.0006	0.0192	5000	0.00000384	
06	Total Carcinogenic PAHS (BaP TEQs)	8	25	0.00003	0.0529211			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	100	0.0000006	0.000005168	0.000072	0.071777778	
06	TOTAL HPCDD	8	87.5	0.0000027	0.000025			
06	TOTAL HPCDF	8	87.5	0.0000041	0.00009			
06	TOTAL HXCDD	8	75	0.0000022	0.00003			
06	TOTAL HXCDF	8	87.5	0.0000032	0.000066			
06	TOTAL PECDD	8	75	0.0000004	0.000022			
06	TOTAL PECDF	8	75	0.0000034	0.000083			
06	Total Solids	2	100	86.2	92			
06	TOTAL TCDD	8	75	0.0000011	0.000019			
06	TOTAL TCDF	8	75	0.0000028	0.000096			
06	Total Trihalomethanes	8	12.5	0.0017	0.0017			
06	Vanadium	8	100	32	52.2	550	0.094909091	
06	Zinc	8	100	64.1	147	23000	0.006391304	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Tin	8	100	2.6	6.69			
06	Toluene	8	62.5	0.0006	0.0192			
06	Total Carcinogenic PAHS (BaP TEQs)	8	25	0.00003	0.0529211			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	100	0.0000006	0.000005168			
06	TOTAL HPCDD	8	87.5	0.0000027	0.000025			
06	TOTAL HPCDF	8	87.5	0.0000041	0.00009			
06	TOTAL HXCDD	8	75	0.0000022	0.00003			
06	TOTAL HXCDF	8	87.5	0.0000032	0.000066			
06	TOTAL PECDD	8	75	0.0000004	0.000022			
06	TOTAL PECDF	8	75	0.0000034	0.000083			
06	Total Solids	2	100	86.2	92			
06	TOTAL TCDD	8	75	0.0000011	0.000019			
06	TOTAL TCDF	8	75	0.0000028	0.000096			
06	Total Trihalomethanes	8	12.5	0.0017	0.0017			
06	Vanadium	8	100	32	52.2	187	0.279144385	
06	Zinc	8	100	64.1	147	3211	0.045780131	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	7	14.29	0.00868	0.00868			
07	1,2,3-Trichloropropane	7	14.29	0.00206	0.00206	0.091	0.022637363	
07	4-Isopropyltoluene	7	42.86	0.0003	0.001			
07	Acetone	7	28.57	0.0103	0.0156			
07	Aluminum	7	100	31400	42800			
07	Antimony	7	100	0.338	0.71			
07	Arsenic	7	100	9.61	13	0.39	33.33333333	100
07	Barium	7	100	226	400			
07	Beryllium	7	100	3.92	5.8	1400	0.004142857	
07	Bis(2-ethylhexyl)phthalate	7	42.86	0.122	0.31	35	0.008857143	
07	Cadmium (Food)	7	100	0.103	0.294	1800	0.000163333	
07	Chromium	7	71.43	4.13	8.06			
07	Cobalt	7	100	3.81	6.4			
07	Copper	7	100	15.9	52.5			
07	Cyanide	5	20	0.158	0.158			
07	Di-n-butyl phthalate	7	14.29	0.49	0.49			
07	Di-n-octyl phthalate	7	28.57	0.48	1.28			
07	Ethylbenzene	7	42.86	0.000649	0.00256	5.7	0.000449123	
07	Fluoranthene	7	28.57	0.0213	0.03			
07	Iron	7	100	15200	28851			
07	Isopropylbenzene	7	14.29	0.00148	0.00148			
07	Lead	7	100	26.7	49.2			
07	m,p-Xylenes	7	57.14	0.0006	0.00362			
07	Manganese (food)	7	100	435	824			
07	Methylene chloride	7	14.29	0.0189	0.0189	11	0.001718182	
07	n-Butylbenzene	7	28.57	0.000806	0.000951			
07	Nickel	7	100	4.18	7.2			
07	n-Propylbenzene	7	28.57	0.000985	0.00124			
07	o-Xylene	7	42.86	0.0003	0.00239			
07	Phenanthrene	7	14.29	0.04	0.04			
07	sec-Butylbenzene	7	28.57	0.00118	0.00126			
07	Selenium	7	42.86	0.121	0.686			
07	Silver	7	42.86	0.17	0.21			
07	Styrene	7	28.57	0.0005	0.00206			
07	tert-Butylbenzene	7	28.57	0.00121	0.00156			
07	Thallium	7	57.14	1.53	3.6			
07	Tin	7	100	1.85	5.62			
07	Toluene	7	57.14	0.0006	0.0134			
07	Total Carcinogenic PAHS (BaP TEQs)	7	14.29	0.033	0.033	0.015	2.2	14.28571429
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	7	100	5.5E-09	1.61404E-05	0.0000045	3.586755556	14.28571429
07	TOTAL HPCDD	7	71.43	0.0000047	0.000022			
07	TOTAL HPCDF	7	71.43	0.0000028	0.000042			
07	TOTAL HXCDD	7	71.43	0.0000019	0.000032			
07	TOTAL HXCDF	7	71.43	0.0000027	0.000041			
07	TOTAL PECDD	7	71.43	0.0000016	0.000027			
07	TOTAL PECDF	7	71.43	0.0000012	0.000029			
07	Total Solids	2	100	80.7	89.4			
07	TOTAL TCDD	7	85.71	0.0000011	0.000024			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	7	14.29	0.00868	0.00868	43000	2.0186E-07	
07	1,2,3-Trichloropropane	7	14.29	0.00206	0.00206	470	4.38298E-06	
07	4-Isopropyltoluene	7	42.86	0.0003	0.001			
07	Acetone	7	28.57	0.0103	0.0156	61000	2.55738E-07	
07	Aluminum	7	100	31400	42800	77000	0.555844156	
07	Antimony	7	100	0.338	0.71	31	0.022903226	
07	Arsenic	7	100	9.61	13	22	0.590909091	
07	Barium	7	100	226	400	15000	0.026666667	
07	Beryllium	7	100	3.92	5.8	160	0.03625	
07	Bis(2-ethylhexyl)phthalate	7	42.86	0.122	0.31	1200	0.000258333	
07	Cadmium (Food)	7	100	0.103	0.294	70	0.0042	
07	Chromium	7	71.43	4.13	8.06			
07	Cobalt	7	100	3.81	6.4			
07	Copper	7	100	15.9	52.5	3100	0.016935484	
07	Cyanide	5	20	0.158	0.158	1600	0.00009875	
07	Di-n-butyl phthalate	7	14.29	0.49	0.49	6100	8.03279E-05	
07	Di-n-octyl phthalate	7	28.57	0.48	1.28			
07	Ethylbenzene	7	42.86	0.000649	0.00256	3600	7.11111E-07	
07	Fluoranthene	7	28.57	0.0213	0.03	2300	1.30435E-05	
07	Iron	7	100	15200	28851	55000	0.524563636	
07	Isopropylbenzene	7	14.29	0.00148	0.00148	2200	6.72727E-07	
07	Lead	7	100	26.7	49.2	400	0.123	
07	m,p-Xylenes	7	57.14	0.0006	0.00362	600	6.03333E-06	
07	Manganese (food)	7	100	435	824			
07	Methylene chloride	7	14.29	0.0189	0.0189	1700	1.11176E-05	
07	n-Butylbenzene	7	28.57	0.000806	0.000951			
07	Nickel	7	100	4.18	7.2	1600	0.0045	
07	n-Propylbenzene	7	28.57	0.000985	0.00124			
07	o-Xylene	7	42.86	0.0003	0.00239	5300	4.50943E-07	
07	Phenanthrene	7	14.29	0.04	0.04			
07	sec-Butylbenzene	7	28.57	0.00118	0.00126			
07	Selenium	7	42.86	0.121	0.686	390	0.001758974	
07	Silver	7	42.86	0.17	0.21	390	0.000538462	
07	Styrene	7	28.57	0.0005	0.00206	6500	3.16923E-07	
07	tert-Butylbenzene	7	28.57	0.00121	0.00156			
07	Thallium	7	57.14	1.53	3.6	5.1	0.705882353	
07	Tin	7	100	1.85	5.62	47000	0.000119574	
07	Toluene	7	57.14	0.0006	0.0134	5000	0.00000268	
07	Total Carcinogenic PAHS (BaP TEQs)	7	14.29	0.033	0.033			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	7	100	5.5E-09	1.61404E-05	0.000072	0.224172222	
07	TOTAL HPCDD	7	71.43	0.0000047	0.000022			
07	TOTAL HPCDF	7	71.43	0.0000028	0.000042			
07	TOTAL HXCDD	7	71.43	0.0000019	0.000032			
07	TOTAL HXCDF	7	71.43	0.0000027	0.000041			
07	TOTAL PECDD	7	71.43	0.0000016	0.000027			
07	TOTAL PECDF	7	71.43	0.0000012	0.000029			
07	Total Solids	2	100	80.7	89.4			
07	TOTAL TCDD	7	85.71	0.0000011	0.000024			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	7	14.29	0.00868	0.00868			
07	1,2,3-Trichloropropane	7	14.29	0.00206	0.00206			
07	4-Isopropyltoluene	7	42.86	0.0003	0.001			
07	Acetone	7	28.57	0.0103	0.0156			
07	Aluminum	7	100	31400	42800	86900	0.492520138	
07	Antimony	7	100	0.338	0.71	42.8	0.016588785	
07	Arsenic	7	100	9.61	13	164	0.079268293	
07	Barium	7	100	226	400	1813	0.220628792	
07	Beryllium	7	100	3.92	5.8			
07	Bis(2-ethylhexyl)phthalate	7	42.86	0.122	0.31			
07	Cadmium (Food)	7	100	0.103	0.294	10.6	0.027735849	
07	Chromium	7	71.43	4.13	8.06	579	0.013920553	
07	Cobalt	7	100	3.81	6.4	36.6	0.174863388	
07	Copper	7	100	15.9	52.5	3965	0.013240858	
07	Cyanide	5	20	0.158	0.158			
07	Di-n-butyl phthalate	7	14.29	0.49	0.49			
07	Di-n-octyl phthalate	7	28.57	0.48	1.28			
07	Ethylbenzene	7	42.86	0.000649	0.00256			
07	Fluoranthene	7	28.57	0.0213	0.03			
07	Iron	7	100	15200	28851	154600	0.186617076	
07	Isopropylbenzene	7	14.29	0.00148	0.00148			
07	Lead	7	100	26.7	49.2	2052	0.023976608	
07	m,p-Xylenes	7	57.14	0.0006	0.00362			
07	Manganese (food)	7	100	435	824	5923	0.13911869	
07	Methylene chloride	7	14.29	0.0189	0.0189			
07	n-Butylbenzene	7	28.57	0.000806	0.000951			
07	Nickel	7	100	4.18	7.2	689	0.010449927	
07	n-Propylbenzene	7	28.57	0.000985	0.00124			
07	o-Xylene	7	42.86	0.0003	0.00239			
07	Phenanthrene	7	14.29	0.04	0.04			
07	sec-Butylbenzene	7	28.57	0.00118	0.00126			
07	Selenium	7	42.86	0.121	0.686	1.9	0.361052632	
07	Silver	7	42.86	0.17	0.21	8.132	0.025823906	
07	Styrene	7	28.57	0.0005	0.00206			
07	tert-Butylbenzene	7	28.57	0.00121	0.00156			
07	Thallium	7	57.14	1.53	3.6	69	0.052173913	
07	Tin	7	100	1.85	5.62			
07	Toluene	7	57.14	0.0006	0.0134			
07	Total Carcinogenic PAHS (BaP TEQs)	7	14.29	0.033	0.033			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	7	100	5.5E-09	1.61404E-05			
07	TOTAL HPCDD	7	71.43	0.0000047	0.000022			
07	TOTAL HPCDF	7	71.43	0.0000028	0.000042			
07	TOTAL HXCDD	7	71.43	0.0000019	0.000032			
07	TOTAL HXCDF	7	71.43	0.0000027	0.000041			
07	TOTAL PECDD	7	71.43	0.0000016	0.000027			
07	TOTAL PECDF	7	71.43	0.0000012	0.000029			
07	Total Solids	2	100	80.7	89.4			
07	TOTAL TCDD	7	85.71	0.0000011	0.000024			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL TCDF	7	71.43	0.000001	0.000032			
07	Vanadium	7	100	33.1	56.3			
07	Zinc	7	100	49.7	106			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL TCDF	7	71.43	0.000001	0.000032			
07	Vanadium	7	100	33.1	56.3	550	0.102363636	
07	Zinc	7	100	49.7	106	23000	0.004608696	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL TCDF	7	71.43	0.000001	0.000032			
07	Vanadium	7	100	33.1	56.3	187	0.301069519	
07	Zinc	7	100	49.7	106	3211	0.033011523	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	36	44.44	0.00111	0.108			
08	1,1'-Biphenyl	36	2.78	0.033	0.033			
08	1,2,4,5-Tetrachlorobenzene	36	2.78	0.0255	0.0255			
08	1,2,4-Trichlorobenzene	36	2.78	0.00128	0.00128	180	7.11111E-06	
08	1,2,4-Trimethylbenzene	36	2.78	0.00202	0.00202			
08	1,2-Dichlorobenzene	36	2.78	0.0016	0.0016			
08	1,3,5-Trimethylbenzene	36	2.78	0.00235	0.00235			
08	1,3-Dichlorobenzene	36	2.78	0.00152	0.00152			
08	1,4-Dichlorobenzene	36	2.78	0.00158	0.00158	2.6	0.000607692	
08	2,4,5-Trichlorophenol	36	2.78	0.161	0.161			
08	2,4,6-Trichlorophenol	36	2.78	0.101	0.101	44	0.002295455	
08	2-Butanone (methyl ethyl ketone)	36	5.56	0.00139	0.00286			
08	2-Chloronaphthalene	36	2.78	0.0255	0.0255			
08	2-Chlorophenol	36	2.78	0.0631	0.0631			
08	2-Chlorotoluene	36	2.78	0.00215	0.00215			
08	2-Methylphenol (o-Cresol)	36	2.78	0.0528	0.0528			
08	4,4-DDT	35	2.86	0.000805	0.000805	1.7	0.000473529	
08	4-Chlorotoluene	36	2.78	0.00215	0.00215			
08	4-Isopropyltoluene	36	8.33	0.000297	0.00244			
08	Acenaphthene	36	2.78	0.0291	0.0291			
08	Acenaphthylene	36	2.78	0.0255	0.0255			
08	Acetone	36	27.78	0.00502	0.208			
08	Aluminum	36	91.67	35400	69200			
08	Antimony	36	97.22	0.0261	0.76			
08	Arsenic	36	100	11	19.3	0.39	49.48717949	100
08	Barium	36	91.67	247	497			
08	Beryllium	36	100	4.44	9.02	1400	0.006442857	
08	Bis(2-ethylhexyl)phthalate	36	41.67	0.119	0.733	35	0.020942857	
08	Cadmium (Food)	36	100	0.118	0.42	1800	0.000233333	
08	Chlorobenzene	36	8.33	0.000276	0.000877			
08	Chloroform	36	2.78	0.000864	0.000864	0.3	0.00288	
08	Chromium	36	100	3.81	14.4			
08	Cobalt	36	100	4.79	7.81			
08	Copper	36	100	16.3	136			
08	Cyanide	36	13.89	0.0617	0.16			
08	Dibenzofuran	36	2.78	0.0304	0.0304			
08	Dichlorodifluoromethane (Freon 12)	33	3.03	0.00107	0.00107			
08	Di-n-butylphthalate	36	2.78	0.0582	0.0582			
08	Endosulfan II	34	2.94	0.00133	0.00133			
08	Endosulfan Sulfate	35	2.86	0.00109	0.00109			
08	Ethylbenzene	36	8.33	0.000751	0.00166	5.7	0.000291228	
08	Fluoranthene	36	2.78	0.0313	0.0313			
08	Fluorene	36	2.78	0.0255	0.0255			
08	Iron	36	91.67	17500	28800			
08	Isopropylbenzene	36	8.33	0.000777	0.00289			
08	Lead	36	94.44	32	86			
08	m,p-Xylenes	36	8.33	0.00108	0.00359			
08	Manganese (food)	36	91.67	553	1050			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	36	44.44	0.00111	0.108	43000	2.51163E-06	
08	1,1'-Biphenyl	36	2.78	0.033	0.033	3900	8.46154E-06	
08	1,2,4,5-Tetrachlorobenzene	36	2.78	0.0255	0.0255	18	0.001416667	
08	1,2,4-Trichlorobenzene	36	2.78	0.00128	0.00128	780	1.64103E-06	
08	1,2,4-Trimethylbenzene	36	2.78	0.00202	0.00202	67	3.01493E-05	
08	1,2-Dichlorobenzene	36	2.78	0.0016	0.0016	2000	0.0000008	
08	1,3,5-Trimethylbenzene	36	2.78	0.00235	0.00235			
08	1,3-Dichlorobenzene	36	2.78	0.00152	0.00152			
08	1,4-Dichlorobenzene	36	2.78	0.00158	0.00158	10000	0.000000158	
08	2,4,5-Trichlorophenol	36	2.78	0.161	0.161	6100	2.63934E-05	
08	2,4,6-Trichlorophenol	36	2.78	0.101	0.101	61	0.001655738	
08	2-Butanone (methyl ethyl ketone)	36	5.56	0.00139	0.00286	28000	1.02143E-07	
08	2-Chloronaphthalene	36	2.78	0.0255	0.0255	6300	4.04762E-06	
08	2-Chlorophenol	36	2.78	0.0631	0.0631	390	0.000161795	
08	2-Chlorotoluene	36	2.78	0.00215	0.00215	1600	1.34375E-06	
08	2-Methylphenol (o-Cresol)	36	2.78	0.0528	0.0528	3100	1.70323E-05	
08	4,4-DDT	35	2.86	0.000805	0.000805	36	2.23611E-05	
08	4-Chlorotoluene	36	2.78	0.00215	0.00215	5500	3.90909E-07	
08	4-Isopropyltoluene	36	8.33	0.000297	0.00244			
08	Acenaphthene	36	2.78	0.0291	0.0291	3400	8.55882E-06	
08	Acenaphthylene	36	2.78	0.0255	0.0255			
08	Acetone	36	27.78	0.00502	0.208	61000	3.40984E-06	
08	Aluminum	36	91.67	35400	69200	77000	0.898701299	
08	Antimony	36	97.22	0.0261	0.76	31	0.024516129	
08	Arsenic	36	100	11	19.3	22	0.877272727	
08	Barium	36	91.67	247	497	15000	0.033133333	
08	Beryllium	36	100	4.44	9.02	160	0.056375	
08	Bis(2-ethylhexyl)phthalate	36	41.67	0.119	0.733	1200	0.000610833	
08	Cadmium (Food)	36	100	0.118	0.42	70	0.006	
08	Chlorobenzene	36	8.33	0.000276	0.000877	310	2.82903E-06	
08	Chloroform	36	2.78	0.000864	0.000864	220	3.92727E-06	
08	Chromium	36	100	3.81	14.4			
08	Cobalt	36	100	4.79	7.81			
08	Copper	36	100	16.3	136	3100	0.043870968	
08	Cyanide	36	13.89	0.0617	0.16	1600	0.0001	
08	Dibenzofuran	36	2.78	0.0304	0.0304			
08	Dichlorodifluoromethane (Freon 12)	33	3.03	0.00107	0.00107	190	5.63158E-06	
08	Di-n-butylphthalate	36	2.78	0.0582	0.0582	6100	9.54098E-06	
08	Endosulfan II	34	2.94	0.00133	0.00133			
08	Endosulfan Sulfate	35	2.86	0.00109	0.00109			
08	Ethylbenzene	36	8.33	0.000751	0.00166	3600	4.61111E-07	
08	Fluoranthene	36	2.78	0.0313	0.0313	2300	1.36087E-05	
08	Fluorene	36	2.78	0.0255	0.0255	2300	1.1087E-05	
08	Iron	36	91.67	17500	28800	55000	0.523636364	
08	Isopropylbenzene	36	8.33	0.000777	0.00289	2200	1.31364E-06	
08	Lead	36	94.44	32	86	400	0.215	
08	m,p-Xylenes	36	8.33	0.00108	0.00359	600	5.98333E-06	
08	Manganese (food)	36	91.67	553	1050			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	36	44.44	0.00111	0.108			
08	1,1'-Biphenyl	36	2.78	0.033	0.033			
08	1,2,4,5-Tetrachlorobenzene	36	2.78	0.0255	0.0255			
08	1,2,4-Trichlorobenzene	36	2.78	0.00128	0.00128			
08	1,2,4-Trimethylbenzene	36	2.78	0.00202	0.00202			
08	1,2-Dichlorobenzene	36	2.78	0.0016	0.0016			
08	1,3,5-Trimethylbenzene	36	2.78	0.00235	0.00235			
08	1,3-Dichlorobenzene	36	2.78	0.00152	0.00152			
08	1,4-Dichlorobenzene	36	2.78	0.00158	0.00158			
08	2,4,5-Trichlorophenol	36	2.78	0.161	0.161			
08	2,4,6-Trichlorophenol	36	2.78	0.101	0.101			
08	2-Butanone (methyl ethyl ketone)	36	5.56	0.00139	0.00286			
08	2-Chloronaphthalene	36	2.78	0.0255	0.0255			
08	2-Chlorophenol	36	2.78	0.0631	0.0631			
08	2-Chlorotoluene	36	2.78	0.00215	0.00215			
08	2-Methylphenol (o-Cresol)	36	2.78	0.0528	0.0528			
08	4,4-DDT	35	2.86	0.000805	0.000805			
08	4-Chlorotoluene	36	2.78	0.00215	0.00215			
08	4-Isopropyltoluene	36	8.33	0.000297	0.00244			
08	Acenaphthene	36	2.78	0.0291	0.0291			
08	Acenaphthylene	36	2.78	0.0255	0.0255			
08	Acetone	36	27.78	0.00502	0.208			
08	Aluminum	36	91.67	35400	69200	86900	0.796317606	
08	Antimony	36	97.22	0.0261	0.76	42.8	0.017757009	
08	Arsenic	36	100	11	19.3	164	0.117682927	
08	Barium	36	91.67	247	497	1813	0.274131274	
08	Beryllium	36	100	4.44	9.02			
08	Bis(2-ethylhexyl)phthalate	36	41.67	0.119	0.733			
08	Cadmium (Food)	36	100	0.118	0.42	10.6	0.039622642	
08	Chlorobenzene	36	8.33	0.000276	0.000877			
08	Chloroform	36	2.78	0.000864	0.000864			
08	Chromium	36	100	3.81	14.4	579	0.024870466	
08	Cobalt	36	100	4.79	7.81	36.6	0.213387978	
08	Copper	36	100	16.3	136	3965	0.034300126	
08	Cyanide	36	13.89	0.0617	0.16			
08	Dibenzofuran	36	2.78	0.0304	0.0304			
08	Dichlorodifluoromethane (Freon 12)	33	3.03	0.00107	0.00107			
08	Di-n-butylphthalate	36	2.78	0.0582	0.0582			
08	Endosulfan II	34	2.94	0.00133	0.00133			
08	Endosulfan Sulfate	35	2.86	0.00109	0.00109			
08	Ethylbenzene	36	8.33	0.000751	0.00166			
08	Fluoranthene	36	2.78	0.0313	0.0313			
08	Fluorene	36	2.78	0.0255	0.0255			
08	Iron	36	91.67	17500	28800	154600	0.186287193	
08	Isopropylbenzene	36	8.33	0.000777	0.00289			
08	Lead	36	94.44	32	86	2052	0.041910331	
08	m,p-Xylenes	36	8.33	0.00108	0.00359			
08	Manganese (food)	36	91.67	553	1050	5923	0.17727503	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Mercury	36	2.78	0.188	0.188			
08	Methylene Chloride	36	5.56	0.00243	0.0209	11	0.0019	
08	Naphthalene	36	5.56	0.0255	0.0256	3.9	0.006564103	
08	n-Butylbenzene	36	8.33	0.000407	0.00158			
08	Nickel	36	100	4.78	9.71			
08	n-Propylbenzene	36	8.33	0.000508	0.00248			
08	o-Xylene	36	8.33	0.000545	0.00218			
08	Pentachlorobenzene	36	2.78	0.0399	0.0399			
08	Phenol	36	2.78	0.0482	0.0482			
08	Pyrene	36	2.78	0.0275	0.0275			
08	sec-Butylbenzene	36	11.11	0.000297	0.00285			
08	Selenium	36	58.33	0.0897	0.582			
08	Silver	36	33.33	0.101	0.4			
08	Styrene	36	11.11	0.000297	0.0014			
08	tert-Butylbenzene	36	8.33	0.000733	0.00349			
08	Thallium	36	72.22	1.37	3.02			
08	Tin	36	100	1.67	11			
08	Toluene	36	41.67	0.000753	0.135			
08	Total Carcinogenic PAHS (BaP TEQs)	36	2.78	0.0000269	0.0000269	0.015	0.001793333	
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	36	100	3.167E-08	3.2659E-06	0.0000045	0.725755556	
08	TOTAL HPCDD	36	100	0.0000015	0.000064			
08	TOTAL HPCDF	36	91.67	0.0000017	0.000039			
08	TOTAL HXCDD	36	100	0.0000015	0.000022			
08	TOTAL HXCDF	36	100	0.0000018	0.000032			
08	TOTAL PECDD	36	100	0.00000083	0.000016			
08	TOTAL PECDF	36	100	0.0000012	0.00004			
08	Total Solids	31	100	70	85			
08	TOTAL TCDD	36	100	0.00000094	0.000016			
08	TOTAL TCDF	36	100	0.0000013	0.000063			
08	Total Trihalomethanes	36	2.78	0.000864	0.000864			
08	Vanadium	36	100	33.1	69.8			
08	Zinc	36	100	50.4	133			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Mercury	36	2.78	0.188	0.188	6.7	0.028059701	
08	Methylene Chloride	36	5.56	0.00243	0.0209	1700	1.22941E-05	
08	Naphthalene	36	5.56	0.0255	0.0256	150	0.000170667	
08	n-Butylbenzene	36	8.33	0.000407	0.00158			
08	Nickel	36	100	4.78	9.71	1600	0.00606875	
08	n-Propylbenzene	36	8.33	0.000508	0.00248			
08	o-Xylene	36	8.33	0.000545	0.00218	5300	4.11321E-07	
08	Pentachlorobenzene	36	2.78	0.0399	0.0399	49	0.000814286	
08	Phenol	36	2.78	0.0482	0.0482	18000	2.67778E-06	
08	Pyrene	36	2.78	0.0275	0.0275	1700	1.61765E-05	
08	sec-Butylbenzene	36	11.11	0.000297	0.00285			
08	Selenium	36	58.33	0.0897	0.582	390	0.001492308	
08	Silver	36	33.33	0.101	0.4	390	0.001025641	
08	Styrene	36	11.11	0.000297	0.0014	6500	2.15385E-07	
08	tert-Butylbenzene	36	8.33	0.000733	0.00349			
08	Thallium	36	72.22	1.37	3.02	5.1	0.592156863	
08	Tin	36	100	1.67	11	47000	0.000234043	
08	Toluene	36	41.67	0.000753	0.135	5000	0.000027	
08	Total Carcinogenic PAHS (BaP TEQs)	36	2.78	0.0000269	0.0000269			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	36	100	3.167E-08	3.2659E-06	0.000072	0.045359722	
08	TOTAL HPCDD	36	100	0.0000015	0.000064			
08	TOTAL HPCDF	36	91.67	0.0000017	0.000039			
08	TOTAL HXCDD	36	100	0.0000015	0.000022			
08	TOTAL HXCDF	36	100	0.0000018	0.000032			
08	TOTAL PECDD	36	100	0.00000083	0.000016			
08	TOTAL PECDF	36	100	0.0000012	0.00004			
08	Total Solids	31	100	70	85			
08	TOTAL TCDD	36	100	0.00000094	0.000016			
08	TOTAL TCDF	36	100	0.0000013	0.000063			
08	Total Trihalomethanes	36	2.78	0.000864	0.000864			
08	Vanadium	36	100	33.1	69.8	550	0.126909091	
08	Zinc	36	100	50.4	133	23000	0.005782609	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Mercury	36	2.78	0.188	0.188	2.66	0.070676692	
08	Methylene Chloride	36	5.56	0.00243	0.0209			
08	Naphthalene	36	5.56	0.0255	0.0256			
08	n-Butylbenzene	36	8.33	0.000407	0.00158			
08	Nickel	36	100	4.78	9.71	689	0.014092888	
08	n-Propylbenzene	36	8.33	0.000508	0.00248			
08	o-Xylene	36	8.33	0.000545	0.00218			
08	Pentachlorobenzene	36	2.78	0.0399	0.0399			
08	Phenol	36	2.78	0.0482	0.0482			
08	Pyrene	36	2.78	0.0275	0.0275			
08	sec-Butylbenzene	36	11.11	0.000297	0.00285			
08	Selenium	36	58.33	0.0897	0.582	1.9	0.306315789	
08	Silver	36	33.33	0.101	0.4	8.132	0.049188392	
08	Styrene	36	11.11	0.000297	0.0014			
08	tert-Butylbenzene	36	8.33	0.000733	0.00349			
08	Thallium	36	72.22	1.37	3.02	69	0.043768116	
08	Tin	36	100	1.67	11			
08	Toluene	36	41.67	0.000753	0.135			
08	Total Carcinogenic PAHS (BaP TEQs)	36	2.78	0.0000269	0.0000269			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	36	100	3.167E-08	3.2659E-06			
08	TOTAL HPCDD	36	100	0.0000015	0.000064			
08	TOTAL HPCDF	36	91.67	0.0000017	0.000039			
08	TOTAL HXCDD	36	100	0.0000015	0.000022			
08	TOTAL HXCDF	36	100	0.0000018	0.000032			
08	TOTAL PECDD	36	100	0.00000083	0.000016			
08	TOTAL PECDF	36	100	0.0000012	0.00004			
08	Total Solids	31	100	70	85			
08	TOTAL TCDD	36	100	0.00000094	0.000016			
08	TOTAL TCDF	36	100	0.0000013	0.000063			
08	Total Trihalomethanes	36	2.78	0.000864	0.000864			
08	Vanadium	36	100	33.1	69.8	187	0.373262032	
08	Zinc	36	100	50.4	133	3211	0.041420118	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	100	0.0656	0.0656			
09	Acetone	1	100	0.0186	0.0186			
09	Aluminum	1	100	34200	34200			
09	Antimony	1	100	0.965	0.965			
09	Arsenic	1	100	14.3	14.3	0.39	36.66666667	100
09	Barium	1	100	267	267			
09	Beryllium	1	100	4	4	1400	0.002857143	
09	Cadmium (Food)	1	100	0.207	0.207	1800	0.000115	
09	Chromium	1	100	5.81	5.81			
09	Cobalt	1	100	4.89	4.89			
09	Copper	1	100	51.6	51.6			
09	Iron	1	100	17900	17900			
09	Lead	1	100	65.2	65.2			
09	Manganese (food)	1	100	654	654			
09	Nickel	1	100	6.37	6.37			
09	Selenium	1	100	0.122	0.122			
09	Silver	1	100	0.38	0.38			
09	Tin	1	100	5.75	5.75			
09	Toluene	1	100	0.00243	0.00243			
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	3.049E-07	3.049E-07	0.0000045	0.067755556	
09	TOTAL HPCDD	1	100	0.0000063	0.0000063			
09	TOTAL HPCDF	1	100	0.0000031	0.0000031			
09	TOTAL HXCDD	1	100	0.0000032	0.0000032			
09	TOTAL HXCDF	1	100	0.0000041	0.0000041			
09	TOTAL PECDD	1	100	0.0000035	0.0000035			
09	TOTAL PECDF	1	100	0.0000041	0.0000041			
09	TOTAL TCDD	1	100	0.0000024	0.0000024			
09	TOTAL TCDF	1	100	0.0000065	0.0000065			
09	Vanadium	1	100	31.9	31.9			
09	Zinc	1	100	67.1	67.1			

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	100	0.0656	0.0656	43000	1.52558E-06	
09	Acetone	1	100	0.0186	0.0186	61000	3.04918E-07	
09	Aluminum	1	100	34200	34200	77000	0.444155844	
09	Antimony	1	100	0.965	0.965	31	0.031129032	
09	Arsenic	1	100	14.3	14.3	22	0.65	
09	Barium	1	100	267	267	15000	0.0178	
09	Beryllium	1	100	4	4	160	0.025	
09	Cadmium (Food)	1	100	0.207	0.207	70	0.002957143	
09	Chromium	1	100	5.81	5.81			
09	Cobalt	1	100	4.89	4.89			
09	Copper	1	100	51.6	51.6	3100	0.016645161	
09	Iron	1	100	17900	17900	55000	0.325454545	
09	Lead	1	100	65.2	65.2	400	0.163	
09	Manganese (food)	1	100	654	654			
09	Nickel	1	100	6.37	6.37	1600	0.00398125	
09	Selenium	1	100	0.122	0.122	390	0.000312821	
09	Silver	1	100	0.38	0.38	390	0.000974359	
09	Tin	1	100	5.75	5.75	47000	0.00012234	
09	Toluene	1	100	0.00243	0.00243	5000	0.00000486	
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	3.049E-07	3.049E-07	0.000072	0.004234722	
09	TOTAL HPCDD	1	100	0.0000063	0.0000063			
09	TOTAL HPCDF	1	100	0.0000031	0.0000031			
09	TOTAL HXCDD	1	100	0.0000032	0.0000032			
09	TOTAL HXCDF	1	100	0.0000041	0.0000041			
09	TOTAL PECDD	1	100	0.0000035	0.0000035			
09	TOTAL PECDF	1	100	0.0000041	0.0000041			
09	TOTAL TCDD	1	100	0.0000024	0.0000024			
09	TOTAL TCDF	1	100	0.0000065	0.0000065			
09	Vanadium	1	100	31.9	31.9	550	0.058	
09	Zinc	1	100	67.1	67.1	23000	0.002917391	

Table B-1
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	100	0.0656	0.0656			
09	Acetone	1	100	0.0186	0.0186			
09	Aluminum	1	100	34200	34200	86900	0.393555811	
09	Antimony	1	100	0.965	0.965	42.8	0.022546729	
09	Arsenic	1	100	14.3	14.3	164	0.087195122	
09	Barium	1	100	267	267	1813	0.147269719	
09	Beryllium	1	100	4	4			
09	Cadmium (Food)	1	100	0.207	0.207	10.6	0.019528302	
09	Chromium	1	100	5.81	5.81	579	0.010034542	
09	Cobalt	1	100	4.89	4.89	36.6	0.133606557	
09	Copper	1	100	51.6	51.6	3965	0.013013871	
09	Iron	1	100	17900	17900	154600	0.115782665	
09	Lead	1	100	65.2	65.2	2052	0.031773879	
09	Manganese (food)	1	100	654	654	5923	0.110417018	
09	Nickel	1	100	6.37	6.37	689	0.009245283	
09	Selenium	1	100	0.122	0.122	1.9	0.064210526	
09	Silver	1	100	0.38	0.38	8.132	0.046728972	
09	Tin	1	100	5.75	5.75			
09	Toluene	1	100	0.00243	0.00243			
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	3.049E-07	3.049E-07			
09	TOTAL HPCDD	1	100	0.0000063	0.0000063			
09	TOTAL HPCDF	1	100	0.0000031	0.0000031			
09	TOTAL HXCDD	1	100	0.0000032	0.0000032			
09	TOTAL HXCDF	1	100	0.0000041	0.0000041			
09	TOTAL PECDD	1	100	0.0000035	0.0000035			
09	TOTAL PECDF	1	100	0.0000041	0.0000041			
09	TOTAL TCDD	1	100	0.0000024	0.0000024			
09	TOTAL TCDF	1	100	0.0000065	0.0000065			
09	Vanadium	1	100	31.9	31.9	187	0.170588235	
09	Zinc	1	100	67.1	67.1	3211	0.020896917	

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,2,4-Trimethylbenzene	19	5.26	0.006046581	0.006046581			
01	1,3,5-Trimethylbenzene	19	5.26	0.001446281	0.001446281			
01	2-Methylnaphthalene	19	5.26	0.000951796	0.000951796			
01	Chloroform	19	5.26	0.007317691	0.007317691	0.0011	6.652446364	5.263157895
01	m,p-Xylenes	19	5.26	0.003177972	0.003177972			
01	Naphthalene	19	5.26	0.002516685	0.002516685	0.00072	3.495395833	5.263157895
01	o-Xylene	19	5.26	0.001556849	0.001556849			
01	Pentadecane	19	31.58	0.001236814	0.009725991			
01	Total Trihalomethanes	19	5.26	0.007317691	0.007317691			
01	TPH (C03-C20)	19	94.74	0.006678413	2.557191415			
01	Tridecane	19	31.58	0.001476994	0.067085913			
01	Undecane	19	26.32	0.001796754	0.022493002			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,2,4-Trimethylbenzene	19	5.26	0.006046581	0.006046581	0.073	0.082829877	
01	1,3,5-Trimethylbenzene	19	5.26	0.001446281	0.001446281			
01	2-Methylnaphthalene	19	5.26	0.000951796	0.000951796			
01	Chloroform	19	5.26	0.007317691	0.007317691	1	0.007317691	
01	m,p-Xylenes	19	5.26	0.003177972	0.003177972	1	0.003177972	
01	Naphthalene	19	5.26	0.002516685	0.002516685	0.031	0.081183387	
01	o-Xylene	19	5.26	0.001556849	0.001556849	7.3	0.000213267	
01	Pentadecane	19	31.58	0.001236814	0.009725991			
01	Total Trihalomethanes	19	5.26	0.007317691	0.007317691			
01	TPH (C03-C20)	19	94.74	0.006678413	2.557191415			
01	Tridecane	19	31.58	0.001476994	0.067085913			
01	Undecane	19	26.32	0.001796754	0.022493002			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	1,2,4-Trimethylbenzene	3	33.33	0.001955977	0.001955977			
04	Acenaphthene	3	33.33	0.001243312	0.001243312			
04	m,p-Xylenes	3	33.33	0.002532817	0.002532817			
04	Pentadecane	3	33.33	0.002039211	0.002039211			
04	Toluene	3	33.33	0.001234331	0.001234331			
04	TPH (C03-C20)	3	66.67	0.005033433	0.902249745			
04	Tridecane	3	33.33	0.004555664	0.004555664			
04	Undecane	3	33.33	0.00784999	0.00784999			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	1,2,4-Trimethylbenzene	3	33.33	0.001955977	0.001955977	0.073	0.026794205	
04	Acenaphthene	3	33.33	0.001243312	0.001243312			
04	m,p-Xylenes	3	33.33	0.002532817	0.002532817	1	0.002532817	
04	Pentadecane	3	33.33	0.002039211	0.002039211			
04	Toluene	3	33.33	0.001234331	0.001234331	52	2.37371E-05	
04	TPH (C03-C20)	3	66.67	0.005033433	0.902249745			
04	Tridecane	3	33.33	0.004555664	0.004555664			
04	Undecane	3	33.33	0.00784999	0.00784999			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Chloroform	32	12.5	0.006327425	0.50660625	0.0011	460.5511364	12.5
05	Ethylbenzene	32	3.13	0.001573731	0.001573731	0.0097	0.162240309	
05	m,p-Xylenes	32	6.25	0.001866096	0.005236664			
05	Pentadecane	32	21.88	0.001137683	0.011337696			
05	Phenanthrene	32	3.13	0.00331788	0.00331788			
05	Tetrachloroethene	32	9.38	0.007013716	2.266879736	0.0041	552.8974966	9.375
05	Toluene	32	12.5	0.001113847	0.003838287			
05	Total Trihalomethanes	32	12.5	0.006327425	0.50660625			
05	TPH (C03-C20)	32	81.25	0.005651066	0.96729907			
05	Trichloroethene	32	3.13	0.0248253	0.0248253	0.012	2.068775	3.125
05	Tridecane	32	21.88	0.001067481	0.034041895			
05	Undecane	32	21.88	0.00076	0.37907621			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Chloroform	32	12.5	0.006327425	0.50660625	1	0.50660625	
05	Ethylbenzene	32	3.13	0.001573731	0.001573731	10	0.000157373	
05	m,p-Xylenes	32	6.25	0.001866096	0.005236664	1	0.005236664	
05	Pentadecane	32	21.88	0.001137683	0.011337696			
05	Phenanthrene	32	3.13	0.00331788	0.00331788			
05	Tetrachloroethene	32	9.38	0.007013716	2.266879736	2.8	0.809599906	
05	Toluene	32	12.5	0.001113847	0.003838287	52	7.38132E-05	
05	Total Trihalomethanes	32	12.5	0.006327425	0.50660625			
05	TPH (C03-C20)	32	81.25	0.005651066	0.96729907			
05	Trichloroethene	32	3.13	0.0248253	0.0248253			
05	Tridecane	32	21.88	0.001067481	0.034041895			
05	Undecane	32	21.88	0.00076	0.37907621			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	1,1,1-trichloroethane	8	12.5	0.001481766	0.001481766			
06	Chloroform	8	12.5	0.006962589	0.006962589	0.0011	6.329626364	12.5
06	Ethylbenzene	8	12.5	0.001562712	0.001562712	0.0097	0.16110433	
06	m,p-Xylenes	8	12.5	0.006066664	0.006066664			
06	o-Xylene	8	12.5	0.002092518	0.002092518			
06	Pentadecane	8	37.5	0.0010992	0.003389151			
06	Tetrachloroethene	8	37.5	0.002595655	3.587259414	0.0041	874.9413205	12.5
06	Toluene	8	12.5	0.000695711	0.000695711			
06	Total Trihalomethanes	8	12.5	0.006962589	0.006962589			
06	TPH (C03-C20)	8	62.5	0.041758953	0.824422049			
06	Trichloroethene	8	12.5	0.033188351	0.033188351	0.012	2.765695917	12.5
06	Tridecane	8	37.5	0.001577267	0.00318002			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	1,1,1-trichloroethane	8	12.5	0.001481766	0.001481766	52	2.84955E-05	
06	Chloroform	8	12.5	0.006962589	0.006962589	1	0.006962589	
06	Ethylbenzene	8	12.5	0.001562712	0.001562712	10	0.000156271	
06	m,p-Xylenes	8	12.5	0.006066664	0.006066664	1	0.006066664	
06	o-Xylene	8	12.5	0.002092518	0.002092518	7.3	0.000286646	
06	Pentadecane	8	37.5	0.0010992	0.003389151			
06	Tetrachloroethene	8	37.5	0.002595655	3.587259414	2.8	1.281164076	12.5
06	Toluene	8	12.5	0.000695711	0.000695711	52	1.33791E-05	
06	Total Trihalomethanes	8	12.5	0.006962589	0.006962589			
06	TPH (C03-C20)	8	62.5	0.041758953	0.824422049			
06	Trichloroethene	8	12.5	0.033188351	0.033188351			
06	Tridecane	8	37.5	0.001577267	0.00318002			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Benzene	6	16.67	0.00089669	0.00089669	0.0031	0.289254839	
07	Pentadecane	6	33.33	0.001343751	0.005781914			
07	Phenanthrene	6	16.67	0.004867478	0.004867478			
07	Tetrachloroethene	6	16.67	0.004668624	0.004668624	0.0041	1.13868878	16.66666667
07	TPH (C03-C20)	6	66.67	0.072812947	3.6979871			
07	Tridecane	6	16.67	0.114225099	0.114225099			
07	Undecane	6	33.33	0.001620514	0.112348124			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Benzene	6	16.67	0.00089669	0.00089669	0.31	0.002892548	
07	Pentadecane	6	33.33	0.001343751	0.005781914			
07	Phenanthrene	6	16.67	0.004867478	0.004867478			
07	Tetrachloroethene	6	16.67	0.004668624	0.004668624	2.8	0.001667366	
07	TPH (C03-C20)	6	66.67	0.072812947	3.6979871			
07	Tridecane	6	16.67	0.114225099	0.114225099			
07	Undecane	6	33.33	0.001620514	0.112348124			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-trichloroethane	35	2.86	0.002287478	0.002287478			
08	Chlorobenzene	35	2.86	0.023134231	0.023134231			
08	Chloroform	35	2.86	0.004825873	0.004825873	0.0011	4.387157273	2.857142857
08	Pentadecane	35	17.14	0.002274245	0.004799734			
08	Tetrachloroethene	35	17.14	0.002127932	0.11601873	0.0041	28.29725122	8.571428571
08	Total Trihalomethanes	35	2.86	0.004825873	0.004825873			
08	TPH (C03-C20)	35	82.86	0.002356967	2.438750339			
08	Trichloroethene	35	2.86	0.000807526	0.000807526	0.012	0.067293833	
08	Tridecane	35	20	0.001150089	0.021784672			
08	Undecane	35	17.14	0.001068895	0.016158361			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-trichloroethane	35	2.86	0.002287478	0.002287478	52	4.399E-05	
08	Chlorobenzene	35	2.86	0.023134231	0.023134231	0.52	0.044488906	
08	Chloroform	35	2.86	0.004825873	0.004825873	1	0.004825873	
08	Pentadecane	35	17.14	0.002274245	0.004799734			
08	Tetrachloroethene	35	17.14	0.002127932	0.11601873	2.8	0.041435261	
08	Total Trihalomethanes	35	2.86	0.004825873	0.004825873			
08	TPH (C03-C20)	35	82.86	0.002356967	2.438750339			
08	Trichloroethene	35	2.86	0.000807526	0.000807526			
08	Tridecane	35	20	0.001150089	0.021784672			
08	Undecane	35	17.14	0.001068895	0.016158361			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	Tetrachloroethene	1	100	0.00719338	0.00719338	0.0041	1.754482927	100
09	TPH (C03-C20)	1	100	0.146320093	0.146320093			
09	Tridecane	1	100	0.001013389	0.001013389			

Table B-2
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	Tetrachloroethene	1	100	0.00719338	0.00719338	2.8	0.002569064	
09	TPH (C03-C20)	1	100	0.146320093	0.146320093			
09	Tridecane	1	100	0.001013389	0.001013389			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1-dichloroethene	19	15.79	0.000187	0.00036			
01	1,2,3-Trichlorobenzene	19	5.26	0.000357	0.000357			
01	1,2,4-trichlorobenzene	19	5.26	0.000247	0.000247	0.019	0.013	
01	Acetone	19	10.53	0.00123	0.00232			
01	Aluminum	18	66.67	0.0025	0.00864			
01	Antimony	18	27.78	0.000156	0.00047			
01	Arsenic	18	100	0.00152	0.00867	0.000045	192.6666667	100
01	Barium	18	100	0.00894	0.0171			
01	Beryllium	18	27.78	0.00003	0.0000868			
01	Bromodichloromethane	19	57.89	0.000155	0.000725	0.0011	0.659090909	
01	Bromoform	19	100	0.000436	0.00945	0.0085	1.111764706	5.263157895
01	Cadmium (Water)	18	50	0.00004	0.000237			
01	Chloride	18	100	6.33	38.1			
01	Chlorine (as Cl2)	18	100	0.02	0.2			
01	Chloroform	19	57.89	0.0000931	0.000276	0.00019	1.452631579	21.05263158
01	Chromium	18	94.44	0.000194	0.00115			
01	cis-1,2-dichloroethene	19	36.84	0.000166	0.00035			
01	Cobalt	18	100	0.0000305	0.000254			
01	Copper	18	100	0.0173	0.38			
01	Dibromochloromethane	19	89.47	0.000201	0.00131	0.0008	1.6375	36.84210526
01	Di-n-octyl phthalate	18	11.11	0.00021	0.000359			
01	Dissolved Oxygen	18	100	6.98	10.88			
01	Fecal Steptococcus	18	100					
01	Fluoride	18	38.89	0.232	3.66			
01	Heterotrophic plate count	18	100		430			
01	Iron	18	66.67	0.00523	1.92			
01	Lead	18	100	0.00051	0.011			
01	m,p-Xylenes	19	5.26	0.000142	0.000142			
01	Manganese (nonfood)	18	100	0.000167	0.0228			
01	Mercury	18	33.33	0.000016	0.000082			
01	Nickel	18	100	0.000382	0.0848			
01	Nitrate (measured as NO3-)	18	94.44	2.53	19.2			
01	Nitrite (measured as NO2-)	18	5.56	2.79	2.79			
01	Oxidation Reduction Potential	18	100	192	619			
01	Ph	18	100	6.94	8.14			
01	Salinity	18	100		0.1			
01	Selenium	18	38.89	0.000216	0.000749			
01	Specific Conductance	18	100	0.41	85.5			
01	Sulfate	18	100	3.56	34.6			
01	Temperature	18	100	16.8	29.2			
01	Tetrachloroethene	19	26.32	0.000197	0.00039	0.00011	3.545454545	26.31578947
01	Thallium	18	11.11	0.00034	0.000756			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1-dichloroethene	19	15.79	0.000187	0.00036	0.34	0.001058824	
01	1,2,3-Trichlorobenzene	19	5.26	0.000357	0.000357			
01	1,2,4-trichlorobenzene	19	5.26	0.000247	0.000247	0.37	0.000667568	
01	Acetone	19	10.53	0.00123	0.00232	22	0.000105455	
01	Aluminum	18	66.67	0.0025	0.00864	37	0.000233514	
01	Antimony	18	27.78	0.000156	0.00047	0.015	0.031333333	
01	Arsenic	18	100	0.00152	0.00867	0.011	0.788181818	
01	Barium	18	100	0.00894	0.0171	7.3	0.002342466	
01	Beryllium	18	27.78	0.00003	0.0000868	0.073	0.001189041	
01	Bromodichloromethane	19	57.89	0.000155	0.000725	0.73	0.000993151	
01	Bromoform	19	100	0.000436	0.00945	0.73	0.012945205	
01	Cadmium (Water)	18	50	0.00004	0.000237	0.018	0.013166667	
01	Chloride	18	100	6.33	38.1			
01	Chlorine (as Cl2)	18	100	0.02	0.2			
01	Chloroform	19	57.89	0.0000931	0.000276	0.13	0.002123077	
01	Chromium	18	94.44	0.000194	0.00115			
01	cis-1,2-dichloroethene	19	36.84	0.000166	0.00035	0.37	0.000945946	
01	Cobalt	18	100	0.0000305	0.000254			
01	Copper	18	100	0.0173	0.38	1.5	0.253333333	
01	Dibromochloromethane	19	89.47	0.000201	0.00131	0.73	0.001794521	
01	Di-n-octyl phthalate	18	11.11	0.00021	0.000359			
01	Dissolved Oxygen	18	100	6.98	10.88			
01	Fecal Steptococcus	18	100					
01	Fluoride	18	38.89	0.232	3.66			
01	Heterotrophic plate count	18	100		430			
01	Iron	18	66.67	0.00523	1.92	26	0.073846154	
01	Lead	18	100	0.00051	0.011	0.02	0.55	
01	m,p-Xylenes	19	5.26	0.000142	0.000142	0.2	0.00071	
01	Manganese (nonfood)	18	100	0.000167	0.0228	0.88	0.025909091	
01	Mercury	18	33.33	0.000016	0.000082	0.00063	0.13015873	
01	Nickel	18	100	0.000382	0.0848	0.73	0.116164384	
01	Nitrate (measured as NO3-)	18	94.44	2.53	19.2	255.2	0.07523511	
01	Nitrite (measured as NO2-)	18	5.56	2.79	2.79	12.21	0.228501229	
01	Oxidation Reduction Potential	18	100	192	619			
01	Ph	18	100	6.94	8.14			
01	Salinity	18	100		0.1			
01	Selenium	18	38.89	0.000216	0.000749	0.18	0.004161111	
01	Specific Conductance	18	100	0.41	85.5			
01	Sulfate	18	100	3.56	34.6			
01	Temperature	18	100	16.8	29.2			
01	Tetrachloroethene	19	26.32	0.000197	0.00039	0.22	0.001772727	
01	Thallium	18	11.11	0.00034	0.000756	0.0024	0.315	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1-dichloroethene	19	15.79	0.000187	0.00036			
01	1,2,3-Trichlorobenzene	19	5.26	0.000357	0.000357			
01	1,2,4-trichlorobenzene	19	5.26	0.000247	0.000247			
01	Acetone	19	10.53	0.00123	0.00232			
01	Aluminum	18	66.67	0.0025	0.00864			
01	Antimony	18	27.78	0.000156	0.00047			
01	Arsenic	18	100	0.00152	0.00867			
01	Barium	18	100	0.00894	0.0171			
01	Beryllium	18	27.78	0.00003	0.0000868			
01	Bromodichloromethane	19	57.89	0.000155	0.000725			
01	Bromoform	19	100	0.000436	0.00945			
01	Cadmium (Water)	18	50	0.00004	0.000237			
01	Chloride	18	100	6.33	38.1			
01	Chlorine (as Cl2)	18	100	0.02	0.2			
01	Chloroform	19	57.89	0.0000931	0.000276	0.00021	1.314285714	15.78947368
01	Chromium	18	94.44	0.000194	0.00115			
01	cis-1,2-dichloroethene	19	36.84	0.000166	0.00035			
01	Cobalt	18	100	0.0000305	0.000254			
01	Copper	18	100	0.0173	0.38			
01	Dibromochloromethane	19	89.47	0.000201	0.00131			
01	Di-n-octyl phthalate	18	11.11	0.00021	0.000359			
01	Dissolved Oxygen	18	100	6.98	10.88			
01	Fecal Steptococcus	18	100					
01	Fluoride	18	38.89	0.232	3.66			
01	Heterotrophic plate count	18	100		430			
01	Iron	18	66.67	0.00523	1.92			
01	Lead	18	100	0.00051	0.011			
01	m,p-Xylenes	19	5.26	0.000142	0.000142			
01	Manganese (nonfood)	18	100	0.000167	0.0228			
01	Mercury	18	33.33	0.000016	0.000082			
01	Nickel	18	100	0.000382	0.0848			
01	Nitrate (measured as NO3-)	18	94.44	2.53	19.2			
01	Nitrite (measured as NO2-)	18	5.56	2.79	2.79			
01	Oxidation Reduction Potential	18	100	192	619			
01	Ph	18	100	6.94	8.14			
01	Salinity	18	100		0.1			
01	Selenium	18	38.89	0.000216	0.000749			
01	Specific Conductance	18	100	0.41	85.5			
01	Sulfate	18	100	3.56	34.6			
01	Temperature	18	100	16.8	29.2			
01	Tetrachloroethene	19	26.32	0.000197	0.00039	0.00082	0.475609756	
01	Thallium	18	11.11	0.00034	0.000756			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1-dichloroethene	19	15.79	0.000187	0.00036	0.42	0.000857143	
01	1,2,3-Trichlorobenzene	19	5.26	0.000357	0.000357			
01	1,2,4-trichlorobenzene	19	5.26	0.000247	0.000247			
01	Acetone	19	10.53	0.00123	0.00232	64	0.00003625	
01	Aluminum	18	66.67	0.0025	0.00864			
01	Antimony	18	27.78	0.000156	0.00047			
01	Arsenic	18	100	0.00152	0.00867			
01	Barium	18	100	0.00894	0.0171			
01	Beryllium	18	27.78	0.00003	0.0000868			
01	Bromodichloromethane	19	57.89	0.000155	0.000725			
01	Bromoform	19	100	0.000436	0.00945			
01	Cadmium (Water)	18	50	0.00004	0.000237			
01	Chloride	18	100	6.33	38.1			
01	Chlorine (as Cl2)	18	100	0.02	0.2			
01	Chloroform	19	57.89	0.000931	0.000276	0.2	0.00138	
01	Chromium	18	94.44	0.000194	0.00115			
01	cis-1,2-dichloroethene	19	36.84	0.000166	0.00035			
01	Cobalt	18	100	0.0000305	0.000254			
01	Copper	18	100	0.0173	0.38			
01	Dibromochloromethane	19	89.47	0.000201	0.00131			
01	Di-n-octyl phthalate	18	11.11	0.00021	0.000359			
01	Dissolved Oxygen	18	100	6.98	10.88			
01	Fecal Steptococcus	18	100					
01	Fluoride	18	38.89	0.232	3.66			
01	Heterotrophic plate count	18	100		430			
01	Iron	18	66.67	0.00523	1.92			
01	Lead	18	100	0.00051	0.011			
01	m,p-Xylenes	19	5.26	0.000142	0.000142	0.21	0.00067619	
01	Manganese (nonfood)	18	100	0.000167	0.0228			
01	Mercury	18	33.33	0.000016	0.000082	0.00063	0.13015873	
01	Nickel	18	100	0.000382	0.0848			
01	Nitrate (measured as NO3-)	18	94.44	2.53	19.2			
01	Nitrite (measured as NO2-)	18	5.56	2.79	2.79			
01	Oxidation Reduction Potential	18	100	192	619			
01	Ph	18	100	6.94	8.14			
01	Salinity	18	100		0.1			
01	Selenium	18	38.89	0.000216	0.000749			
01	Specific Conductance	18	100	0.41	85.5			
01	Sulfate	18	100	3.56	34.6			
01	Temperature	18	100	16.8	29.2			
01	Tetrachloroethene	19	26.32	0.000197	0.00039	0.57	0.000684211	
01	Thallium	18	11.11	0.00034	0.000756			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1-dichloroethene	19	15.79	0.000187	0.00036	0.007	0.051428571	
01	1,2,3-Trichlorobenzene	19	5.26	0.000357	0.000357			
01	1,2,4-trichlorobenzene	19	5.26	0.000247	0.000247	0.07	0.003528571	
01	Acetone	19	10.53	0.00123	0.00232			
01	Aluminum	18	66.67	0.0025	0.00864			
01	Antimony	18	27.78	0.000156	0.00047	0.006	0.078333333	
01	Arsenic	18	100	0.00152	0.00867	0.01	0.867	
01	Barium	18	100	0.00894	0.0171	2	0.00855	
01	Beryllium	18	27.78	0.00003	0.0000868	0.004	0.0217	
01	Bromodichloromethane	19	57.89	0.000155	0.000725			
01	Bromoform	19	100	0.000436	0.00945			
01	Cadmium (Water)	18	50	0.00004	0.000237	0.005	0.0474	
01	Chloride	18	100	6.33	38.1			
01	Chlorine (as Cl2)	18	100	0.02	0.2	4.01	0.049875312	
01	Chloroform	19	57.89	0.0000931	0.000276			
01	Chromium	18	94.44	0.000194	0.00115	0.1	0.0115	
01	cis-1,2-dichloroethene	19	36.84	0.000166	0.00035	0.07	0.005	
01	Cobalt	18	100	0.0000305	0.000254			
01	Copper	18	100	0.0173	0.38			
01	Dibromochloromethane	19	89.47	0.000201	0.00131			
01	Di-n-octyl phthalate	18	11.11	0.00021	0.000359			
01	Dissolved Oxygen	18	100	6.98	10.88			
01	Fecal Streptococcus	18	100					
01	Fluoride	18	38.89	0.232	3.66	4	0.915	
01	Heterotrophic plate count	18	100		430			
01	Iron	18	66.67	0.00523	1.92			
01	Lead	18	100	0.00051	0.011			
01	m,p-Xylenes	19	5.26	0.000142	0.000142			
01	Manganese (nonfood)	18	100	0.000167	0.0228			
01	Mercury	18	33.33	0.000016	0.000082	0.002	0.041	
01	Nickel	18	100	0.000382	0.0848			
01	Nitrate (measured as NO3-)	18	94.44	2.53	19.2	44.3	0.433408578	
01	Nitrite (measured as NO2-)	18	5.56	2.79	2.79	3.29	0.848024316	
01	Oxidation Reduction Potential	18	100	192	619			
01	Ph	18	100	6.94	8.14			
01	Salinity	18	100		0.1			
01	Selenium	18	38.89	0.000216	0.000749	0.05	0.01498	
01	Specific Conductance	18	100	0.41	85.5			
01	Sulfate	18	100	3.56	34.6			
01	Temperature	18	100	16.8	29.2			
01	Tetrachloroethene	19	26.32	0.000197	0.00039	0.005	0.078	
01	Thallium	18	11.11	0.00034	0.000756	0.002	0.378	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Tin	18	16.67	0.000106	0.000445			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	18	72.22	1.2E-11	7.219E-10	5.2E-10	1.388269231	5.55555556
01	TOTAL HPCDD	18	77.78	1.3E-09	4.2E-09			
01	TOTAL HPCDF	18	83.33	1.4E-09	0.000000015			
01	TOTAL HXCDD	18	27.78	5.5E-10	0.000000002			
01	TOTAL HXCDF	18	16.67	5.7E-10	6.8E-09			
01	TOTAL PECDD	18	5.56	4.5E-10	4.5E-10			
01	TOTAL PECDF	18	66.67	3.1E-10	1.4E-09			
01	TOTAL TCDD	18	22.22	6.2E-10	1.1E-09			
01	TOTAL TCDF	18	72.22	3.1E-10	1.3E-09			
01	Total Trihalomethanes	19	100	0.000538	0.01074			
01	Trichloroethene	19	36.84	0.000583	0.00108	0.0017	0.635294118	
01	Turbidity	12	100	1	33.5			
01	Uranium	18	100	0.000437	0.00407			
01	Vanadium	18	44.44	0.00176	0.00354			
01	Zinc	18	100	0.0167	2.38			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Tin	18	16.67	0.000106	0.000445			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	18	72.22	1.2E-11	7.219E-10	0.000000037	2.02273E-05	0.019510811
01	TOTAL HPCDD	18	77.78	1.3E-09	4.2E-09			
01	TOTAL HPCDF	18	83.33	1.4E-09	0.000000015			
01	TOTAL HXCDD	18	27.78	5.5E-10	0.000000002			
01	TOTAL HXCDF	18	16.67	5.7E-10	6.8E-09			
01	TOTAL PECDD	18	5.56	4.5E-10	4.5E-10			
01	TOTAL PECDF	18	66.67	3.1E-10	1.4E-09			
01	TOTAL TCDD	18	22.22	6.2E-10	1.1E-09			
01	TOTAL TCDF	18	72.22	3.1E-10	1.3E-09			
01	Total Trihalomethanes	19	100	0.000538	0.01074			
01	Trichloroethene	19	36.84	0.000583	0.00108			
01	Turbidity	12	100		1			33.5
01	Uranium	18	100	0.000437	0.00407	0.11		0.037
01	Vanadium	18	44.44	0.00176	0.00354	0.26		0.013615385
01	Zinc	18	100	0.0167	2.38	11		0.216363636

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Tin	18	16.67	0.000106	0.000445			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	18	72.22	1.2E-11	7.219E-10			
01	TOTAL HPCDD	18	77.78	1.3E-09	4.2E-09			
01	TOTAL HPCDF	18	83.33	1.4E-09	0.000000015			
01	TOTAL HXCDD	18	27.78	5.5E-10	0.000000002			
01	TOTAL HXCDF	18	16.67	5.7E-10	6.8E-09			
01	TOTAL PECDD	18	5.56	4.5E-10	4.5E-10			
01	TOTAL PECDF	18	66.67	3.1E-10	1.4E-09			
01	TOTAL TCDD	18	22.22	6.2E-10	1.1E-09			
01	TOTAL TCDF	18	72.22	3.1E-10	1.3E-09			
01	Total Trihalomethanes	19	100	0.000538	0.01074			
01	Trichloroethene	19	36.84	0.000583	0.00108	0.0024	0.45	
01	Turbidity	12	100	1	33.5			
01	Uranium	18	100	0.000437	0.00407			
01	Vanadium	18	44.44	0.00176	0.00354			
01	Zinc	18	100	0.0167	2.38			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Tin	18	16.67	0.000106	0.000445			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	18	72.22	1.2E-11	7.219E-10			
01	TOTAL HPCDD	18	77.78	1.3E-09	4.2E-09			
01	TOTAL HPCDF	18	83.33	1.4E-09	0.000000015			
01	TOTAL HXCDD	18	27.78	5.5E-10	0.000000002			
01	TOTAL HXCDF	18	16.67	5.7E-10	6.8E-09			
01	TOTAL PECDD	18	5.56	4.5E-10	4.5E-10			
01	TOTAL PECDF	18	66.67	3.1E-10	1.4E-09			
01	TOTAL TCDD	18	22.22	6.2E-10	1.1E-09			
01	TOTAL TCDF	18	72.22	3.1E-10	1.3E-09			
01	Total Trihalomethanes	19	100	0.000538	0.01074			
01	Trichloroethene	19	36.84	0.000583	0.00108			
01	Turbidity	12	100	1	33.5			
01	Uranium	18	100	0.000437	0.00407			
01	Vanadium	18	44.44	0.00176	0.00354			
01	Zinc	18	100	0.0167	2.38			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Tin	18	16.67	0.000106	0.000445			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	18	72.22	1.2E-11	7.219E-10	0.00000003	0.024063333	
01	TOTAL HPCDD	18	77.78	1.3E-09	4.2E-09			
01	TOTAL HPCDF	18	83.33	1.4E-09	0.000000015			
01	TOTAL HXCDD	18	27.78	5.5E-10	0.000000002			
01	TOTAL HXCDF	18	16.67	5.7E-10	6.8E-09			
01	TOTAL PECDD	18	5.56	4.5E-10	4.5E-10			
01	TOTAL PECDF	18	66.67	3.1E-10	1.4E-09			
01	TOTAL TCDD	18	22.22	6.2E-10	1.1E-09			
01	TOTAL TCDF	18	72.22	3.1E-10	1.3E-09			
01	Total Trihalomethanes	19	100	0.000538	0.01074	0.0807	0.133085502	
01	Trichloroethene	19	36.84	0.000583	0.00108	0.005	0.216	
01	Turbidity	12	100	1	33.5			
01	Uranium	18	100	0.000437	0.00407	0.03	0.135666667	
01	Vanadium	18	44.44	0.00176	0.00354			
01	Zinc	18	100	0.0167	2.38			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	1,1,1-trichloroethane	8	37.5	0.000172	0.000232			
02	1,1-dichloroethane	8	37.5	0.000103	0.000109	0.0024	0.045416667	
02	1,1-dichloroethene	8	62.5	0.00023	0.000384			
02	Acetone	8	12.5	0.00121	0.00121			
02	Aluminum	8	62.5	0.00221	0.0098			
02	Antimony	8	25	0.000265	0.000364			
02	Arsenic	8	100	0.00345	0.00534	0.000045	118.6666667	100
02	Barium	8	100	0.014	0.0192			
02	Beryllium	8	12.5	0.0000503	0.0000503			
02	Bromodichloromethane	8	87.5	0.000125	0.000427	0.0011	0.388181818	
02	Bromoform	8	100	0.000953	0.00556	0.0085	0.654117647	
02	Cadmium (Water)	8	37.5	0.0000475	0.000102			
02	Chloride	8	100	10.3	43.8			
02	Chlorine (as Cl2)	8	100	0.06	0.12			
02	Chloroform	8	100	0.000151	0.000261	0.00019	1.373684211	62.5
02	Chromium	8	100	0.00039	0.000959			
02	cis-1,2-dichloroethene	8	87.5	0.000262	0.000346			
02	Cobalt	8	100	0.0000584	0.0002			
02	Copper	8	100	0.0239	0.526			
02	Dibromochloromethane	8	100	0.00052	0.00102	0.0008	1.275	37.5
02	Di-n-octyl phthalate	8	12.5	0.000459	0.000459			
02	Dissolved Oxygen	8	100	9.05	10.54			
02	Fecal Steptococcus	8	100					
02	Fluoride	8	87.5	0.358	0.462			
02	Heterotrophic plate count	8	100		28			
02	Iron	8	50	0.00479	0.0708			
02	Lead	8	100	0.000972	0.0135			
02	Manganese (nonfood)	8	100	0.00228	0.103			
02	Mercury	8	37.5	0.000022	0.00003			
02	Nickel	8	100	0.000962	0.07573			
02	Nitrate (measured as NO3-)	8	100	3.34	23.8			
02	Oxidation Reduction Potential	8	100	5	585			
02	Ph	8	100	6.79	7.58			
02	Salinity	8	100		0.1			
02	Selenium	8	62.5	0.000219	0.000496			
02	Specific Conductance	8	100	0.8	94.6			
02	Sulfate	8	100	9.32	41.4			
02	Temperature	8	100	17	26.31			
02	Tetrachloroethene	8	87.5	0.000236	0.000468	0.00011	4.254545455	87.5
02	Tin	8	50	0.000142	0.000601			
02	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	62.5	4.61E-12	5.593E-10	5.2E-10	1.075576923	12.5
02	TOTAL HPCDD	8	75	1.5E-09	5.1E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	1,1,1-trichloroethane	8	37.5	0.000172	0.000232			
02	1,1-dichloroethane	8	37.5	0.000103	0.000109	9.1	2.54945E-05	
02	1,1-dichloroethene	8	62.5	0.00023	0.000384	0.91	0.00011978	
02	Acetone	8	12.5	0.00121	0.00121	0.34	0.001129412	
02	Aluminum	8	62.5	0.00221	0.0098	22	0.000055	
02	Antimony	8	25	0.000265	0.000364	37	0.000264865	
02	Arsenic	8	100	0.00345	0.00534	0.015	0.024266667	
02	Barium	8	100	0.014	0.0192	0.011	0.485454545	
02	Beryllium	8	12.5	0.000503	0.000503	7.3	0.002630137	
02	Bromodichloromethane	8	87.5	0.000125	0.000427	0.073	0.000689041	
02	Bromoform	8	100	0.000953	0.00556	0.73	0.000584932	
02	Cadmium (Water)	8	37.5	0.000475	0.000102	0.73	0.007616438	
02	Chloride	8	100	10.3	43.8	0.018	0.005666667	
02	Chlorine (as Cl2)	8	100	0.06	0.12			
02	Chloroform	8	100	0.000151	0.000261			
02	Chromium	8	100	0.00039	0.000959	0.13	0.002007692	
02	cis-1,2-dichloroethene	8	87.5	0.000262	0.000346			
02	Cobalt	8	100	0.000584	0.0002	0.37	0.000935135	
02	Copper	8	100	0.0239	0.526			
02	Dibromochloromethane	8	100	0.00052	0.00102	1.5	0.350666667	
02	Di-n-octyl phthalate	8	12.5	0.000459	0.000459	0.73	0.00139726	
02	Dissolved Oxygen	8	100	9.05	10.54			
02	Fecal Streptococcus	8	100					
02	Fluoride	8	87.5	0.358	0.462			
02	Heterotrophic plate count	8	100		28			
02	Iron	8	50	0.00479	0.0708			
02	Lead	8	100	0.000972	0.0135	26	0.002723077	
02	Manganese (nonfood)	8	100	0.00228	0.103	0.02	0.675	
02	Mercury	8	100	0.000228	0.0003	0.88	0.117045455	
02	Nickel	8	37.5	0.000022	0.00003	0.00063	0.047619048	
02	Nitrate (measured as NO3-)	8	100	0.000962	0.07573	0.73	0.103739726	
02	Oxidation Reduction Potential	8	100	3.34	23.8	255.2	0.093260188	
02	Ph	8	100	5	585			
02	Ph	8	100	6.79	7.58			
02	Salinity	8	100		0.1			
02	Selenium	8	62.5	0.000219	0.000496	0.18	0.002755556	
02	Specific Conductance	8	100	0.8	94.6			
02	Sulfate	8	100	9.32	41.4			
02	Temperature	8	100	17	26.31			
02	Tetrachloroethene	8	87.5	0.000236	0.000468			
02	Tin	8	50	0.000142	0.000601	0.22	0.002127273	
02	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	62.5	4.61E-12	5.593E-10	22	2.73182E-05	
02	TOTAL HPCDD	8	75	1.5E-09	5.1E-09	0.000000037	0.015116216	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	1,1,1-trichloroethane	8	37.5	0.000172	0.000232			
02	1,1-dichloroethane	8	37.5	0.000103	0.000109	0.003	0.036333333	
02	1,1-dichloroethene	8	62.5	0.00023	0.000384			
02	Acetone	8	12.5	0.00121	0.00121			
02	Aluminum	8	62.5	0.00221	0.0098			
02	Antimony	8	25	0.000265	0.000364			
02	Arsenic	8	100	0.00345	0.00534			
02	Barium	8	100	0.014	0.0192			
02	Beryllium	8	12.5	0.0000503	0.0000503			
02	Bromodichloromethane	8	87.5	0.000125	0.000427			
02	Bromoform	8	100	0.000953	0.00556			
02	Cadmium (Water)	8	37.5	0.0000475	0.000102			
02	Chloride	8	100	10.3	43.8			
02	Chlorine (as Cl2)	8	100	0.06	0.12			
02	Chloroform	8	100	0.000151	0.000261	0.00021	1.242857143	50
02	Chromium	8	100	0.00039	0.000959			
02	cis-1,2-dichloroethene	8	87.5	0.000262	0.000346			
02	Cobalt	8	100	0.0000584	0.0002			
02	Copper	8	100	0.0239	0.526			
02	Dibromochloromethane	8	100	0.00052	0.00102			
02	Di-n-octyl phthalate	8	12.5	0.000459	0.000459			
02	Dissolved Oxygen	8	100	9.05	10.54			
02	Fecal Streptococcus	8	100					
02	Fluoride	8	87.5	0.358	0.462			
02	Heterotrophic plate count	8	100		28			
02	Iron	8	50	0.00479	0.0708			
02	Lead	8	100	0.000972	0.0135			
02	Manganese (nonfood)	8	100	0.00228	0.103			
02	Mercury	8	37.5	0.000022	0.00003			
02	Nickel	8	100	0.000962	0.07573			
02	Nitrate (measured as NO3-)	8	100	3.34	23.8			
02	Oxidation Reduction Potential	8	100	5	585			
02	Ph	8	100	6.79	7.58			
02	Salinity	8	100		0.1			
02	Selenium	8	62.5	0.000219	0.000496			
02	Specific Conductance	8	100	0.8	94.6			
02	Sulfate	8	100	9.32	41.4			
02	Temperature	8	100	17	26.31			
02	Tetrachloroethene	8	87.5	0.000236	0.000468	0.00082	0.570731707	
02	Tin	8	50	0.000142	0.000601			
02	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	62.5	4.61E-12	5.593E-10			
02	TOTAL HPCDD	8	75	1.5E-09	5.1E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	1,1,1-trichloroethane	8	37.5	0.000172	0.000232	10	0.0000232	
02	1,1-dichloroethane	8	37.5	0.000103	0.000109	1	0.000109	
02	1,1-dichloroethene	8	62.5	0.00023	0.000384	0.42	0.000914286	
02	Acetone	8	12.5	0.00121	0.00121	64	1.89063E-05	
02	Aluminum	8	62.5	0.00221	0.0098			
02	Antimony	8	25	0.000265	0.000364			
02	Arsenic	8	100	0.00345	0.00534			
02	Barium	8	100	0.014	0.0192			
02	Beryllium	8	12.5	0.0000503	0.0000503			
02	Bromodichloromethane	8	87.5	0.000125	0.000427			
02	Bromoform	8	100	0.000953	0.00556			
02	Cadmium (Water)	8	37.5	0.0000475	0.000102			
02	Chloride	8	100	10.3	43.8			
02	Chlorine (as Cl2)	8	100	0.06	0.12			
02	Chloroform	8	100	0.000151	0.000261	0.2	0.001305	
02	Chromium	8	100	0.00039	0.000959			
02	cis-1,2-dichloroethene	8	87.5	0.000262	0.000346			
02	Cobalt	8	100	0.0000584	0.0002			
02	Copper	8	100	0.0239	0.526			
02	Dibromochloromethane	8	100	0.00052	0.00102			
02	Di-n-octyl phthalate	8	12.5	0.000459	0.000459			
02	Dissolved Oxygen	8	100	9.05	10.54			
02	Fecal Steptococcus	8	100					
02	Fluoride	8	87.5	0.358	0.462			
02	Heterotrophic plate count	8	100		28			
02	Iron	8	50	0.00479	0.0708			
02	Lead	8	100	0.000972	0.0135			
02	Manganese (nonfood)	8	100	0.00228	0.103			
02	Mercury	8	37.5	0.000022	0.00003	0.00063	0.047619048	
02	Nickel	8	100	0.000962	0.07573			
02	Nitrate (measured as NO3-)	8	100	3.34	23.8			
02	Oxidation Reduction Potential	8	100	5	585			
02	Ph	8	100	6.79	7.58			
02	Salinity	8	100		0.1			
02	Selenium	8	62.5	0.000219	0.000496			
02	Specific Conductance	8	100	0.8	94.6			
02	Sulfate	8	100	9.32	41.4			
02	Temperature	8	100	17	26.31			
02	Tetrachloroethene	8	87.5	0.000236	0.000468	0.57	0.000821053	
02	Tin	8	50	0.000142	0.000601			
02	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	62.5	4.61E-12	5.593E-10			
02	TOTAL HPCDD	8	75	1.5E-09	5.1E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	1,1,1-trichloroethane	8	37.5	0.000172	0.000232	0.2	0.00116	
02	1,1-dichloroethane	8	37.5	0.000103	0.000109			
02	1,1-dichloroethene	8	62.5	0.00023	0.000384	0.007	0.054857143	
02	Acetone	8	12.5	0.00121	0.00121			
02	Aluminum	8	62.5	0.00221	0.0098			
02	Antimony	8	25	0.000265	0.000364	0.006	0.060666667	
02	Arsenic	8	100	0.00345	0.00534	0.01	0.534	
02	Barium	8	100	0.014	0.0192	2	0.0096	
02	Beryllium	8	12.5	0.0000503	0.0000503	0.004	0.012575	
02	Bromodichloromethane	8	87.5	0.000125	0.000427			
02	Bromoform	8	100	0.000953	0.00556			
02	Cadmium (Water)	8	37.5	0.0000475	0.000102	0.005	0.0204	
02	Chloride	8	100	10.3	43.8			
02	Chlorine (as Cl2)	8	100	0.06	0.12	4.01	0.029925187	
02	Chloroform	8	100	0.000151	0.000261			
02	Chromium	8	100	0.00039	0.000959	0.1	0.00959	
02	cis-1,2-dichloroethene	8	87.5	0.000262	0.000346	0.07	0.004942857	
02	Cobalt	8	100	0.0000584	0.0002			
02	Copper	8	100	0.0239	0.526			
02	Dibromochloromethane	8	100	0.00052	0.00102			
02	Di-n-octyl phthalate	8	12.5	0.000459	0.000459			
02	Dissolved Oxygen	8	100	9.05	10.54			
02	Fecal Steptococcus	8	100					
02	Fluoride	8	87.5	0.358	0.462	4	0.1155	
02	Heterotrophic plate count	8	100		28			
02	Iron	8	50	0.00479	0.0708			
02	Lead	8	100	0.000972	0.0135			
02	Manganese (nonfood)	8	100	0.00228	0.103			
02	Mercury	8	37.5	0.000022	0.00003	0.002	0.015	
02	Nickel	8	100	0.000962	0.07573			
02	Nitrate (measured as NO3-)	8	100	3.34	23.8	44.3	0.53724605	
02	Oxidation Reduction Potential	8	100	5	585			
02	Ph	8	100	6.79	7.58			
02	Salinity	8	100		0.1			
02	Selenium	8	62.5	0.000219	0.000496	0.05	0.00992	
02	Specific Conductance	8	100	0.8	94.6			
02	Sulfate	8	100	9.32	41.4			
02	Temperature	8	100	17	26.31			
02	Tetrachloroethene	8	87.5	0.000236	0.000468	0.005	0.0936	
02	Tin	8	50	0.000142	0.000601			
02	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	62.5	4.61E-12	5.593E-10	0.00000003	0.018643333	
02	TOTAL HPCDD	8	75	1.5E-09	5.1E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	TOTAL HPCDF	8	75	0.000000003	5.8E-09			
02	TOTAL HXCDD	8	25	7.4E-10	1.6E-09			
02	TOTAL HXCDF	8	37.5	7.2E-10	2.3E-09			
02	TOTAL PECDF	8	37.5	5E-10	0.000000001			
02	TOTAL TCDD	8	50	7.4E-10	1.9E-09			
02	TOTAL TCDF	8	62.5	3.8E-10	8.8E-10			
02	Total Trihalomethanes	8	100	0.002122	0.007181			
02	Trichloroethene	8	87.5	0.000521	0.00119	0.0017	0.7	
02	Turbidity	6	100	1	6			
02	Uranium	8	100	0.000999	0.00609			
02	Vanadium	8	75	0.00102	0.00354			
02	Zinc	8	100	0.049	0.625			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	TOTAL HPCDF	8	75	0.000000003	5.8E-09			
02	TOTAL HXCDD	8	25	7.4E-10	1.6E-09			
02	TOTAL HXCDF	8	37.5	7.2E-10	2.3E-09			
02	TOTAL PECDF	8	37.5	5E-10	0.000000001			
02	TOTAL TCDD	8	50	7.4E-10	1.9E-09			
02	TOTAL TCDF	8	62.5	3.8E-10	8.8E-10			
02	Total Trihalomethanes	8	100	0.002122	0.007181			
02	Trichloroethene	8	87.5	0.000521	0.00119			
02	Turbidity	6	100	1	6			
02	Uranium	8	100	0.000999	0.00609	0.11	0.055363636	
02	Vanadium	8	75	0.00102	0.00354	0.26	0.013615385	
02	Zinc	8	100	0.049	0.625	11	0.056818182	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	TOTAL HPCDF	8	75	0.000000003	5.8E-09			
02	TOTAL HXCDD	8	25	7.4E-10	1.6E-09			
02	TOTAL HXCDF	8	37.5	7.2E-10	2.3E-09			
02	TOTAL PECDF	8	37.5	5E-10	0.000000001			
02	TOTAL TCDD	8	50	7.4E-10	1.9E-09			
02	TOTAL TCDF	8	62.5	3.8E-10	8.8E-10			
02	Total Trihalomethanes	8	100	0.002122	0.007181			
02	Trichloroethene	8	87.5	0.000521	0.00119	0.0024	0.495833333	
02	Turbidity	6	100	1	6			
02	Uranium	8	100	0.000999	0.00609			
02	Vanadium	8	75	0.00102	0.00354			
02	Zinc	8	100	0.049	0.625			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	TOTAL HPCDF	8	75	0.000000003	5.8E-09			
02	TOTAL HXCDD	8	25	7.4E-10	1.6E-09			
02	TOTAL HXCDF	8	37.5	7.2E-10	2.3E-09			
02	TOTAL PECDF	8	37.5	5E-10	0.000000001			
02	TOTAL TCDD	8	50	7.4E-10	1.9E-09			
02	TOTAL TCDF	8	62.5	3.8E-10	8.8E-10			
02	Total Trihalomethanes	8	100	0.002122	0.007181			
02	Trichloroethene	8	87.5	0.000521	0.00119			
02	Turbidity	6	100	1	6			
02	Uranium	8	100	0.000999	0.00609			
02	Vanadium	8	75	0.00102	0.00354			
02	Zinc	8	100	0.049	0.625			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	TOTAL HPCDF	8	75	0.000000003	5.8E-09			
02	TOTAL HXCDD	8	25	7.4E-10	1.6E-09			
02	TOTAL HXCDF	8	37.5	7.2E-10	2.3E-09			
02	TOTAL PECDF	8	37.5	5E-10	0.000000001			
02	TOTAL TCDD	8	50	7.4E-10	1.9E-09			
02	TOTAL TCDF	8	62.5	3.8E-10	8.8E-10			
02	Total Trihalomethanes	8	100	0.002122	0.007181	0.0807	0.088983891	
02	Trichloroethene	8	87.5	0.000521	0.00119	0.005	0.238	
02	Turbidity	6	100	1	6			
02	Uranium	8	100	0.000999	0.00609	0.03	0.203	
02	Vanadium	8	75	0.00102	0.00354			
02	Zinc	8	100	0.049	0.625			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,1-Trichloroethane	6	16.67	0.000215	0.000215			
03	1,1-Dichloroethene	6	16.67	0.000153	0.000153			
03	Acetone	6	16.67	0.00104	0.00104			
03	Aluminum	5	40	0.00571	0.0081			
03	Antimony	5	60	0.000181	0.00089			
03	Arsenic	5	100	0.00154	0.003675	0.000045	81.66666667	100
03	Barium	5	100	0.01215	0.02105			
03	Beryllium	5	40	0.0000318	0.0000511			
03	Bromodichloromethane	6	50	0.000207	0.00044	0.0011	0.4	
03	Bromoform	6	83.33	0.0011	0.00335	0.0085	0.394117647	
03	Cadmium (Water)	5	40	0.0000765	0.0000929			
03	Chloride	5	100	9	34			
03	Chlorine (as Cl2)	6	100	0.05	0.3			
03	Chloroform	6	50	0.000214	0.00393	0.00019	20.68421053	50
03	Chromium	5	80	0.000476	0.0011			
03	cis-1,2-Dichloroethene	6	16.67	0.000321	0.000321			
03	Cobalt	5	80	0.000042	0.00065			
03	Copper	5	100	0.10735	0.3015			
03	Dibromochloromethane	6	83.33	0.000247	0.00114	0.0008	1.425	16.66666667
03	Dissolved Oxygen	6	100	8.25	10.29			
03	Fecal Steptococcus	5	100					
03	Fluoride	5	40	0.445	0.978			
03	Heterotrophic plate count	5	100		199			
03	Iron	5	40	0.0117	0.10845			
03	Lead	5	100	0.0001845	0.014			
03	Manganese (nonfood)	5	100	0.000285	0.0111			
03	Mercury	5	100	0.000015	0.000023			
03	Nickel	5	100	0.0005065	0.246			
03	Nitrate (measured as NO3-)	5	100	3.71	40.4			
03	Oxidation Reduction Potential	6	100	0.29	608			
03	Ph	6	100	6.84	7.92			
03	Salinity	6	100					
03	Selenium	5	80	0.000256	0.000705			
03	Specific Conductance	6	100	0.082	87.2			
03	Sulfate	5	100	6.025	39.4			
03	Temperature	6	100	14.94	22.7			
03	Tetrachloroethene	6	33.33	0.000171	0.000321	0.00011	2.918181818	33.33333333
03	Tin	5	80	0.00011	0.0004605			
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	7.2E-12	6.81E-11	5.2E-10	0.130961538	
03	Total Dissolved Solids	2	100	0.6	0.6			
03	TOTAL HPCDD	5	100	9.2E-10	4.1E-09			
03	TOTAL HPCDF	5	100	1.6E-09	9.4E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,1-Trichloroethane	6	16.67	0.000215	0.000215			
03	1,1-Dichloroethene	6	16.67	0.000153	0.000153	0.34	2.36264E-05	0.00045
03	Acetone	6	16.67	0.00104	0.00104	22	4.72727E-05	
03	Aluminum	5	40	0.00571	0.0081	37	0.000218919	
03	Antimony	5	60	0.000181	0.00089	0.015	0.059333333	
03	Arsenic	5	100	0.00154	0.003675	0.011	0.334090909	
03	Barium	5	100	0.01215	0.02105	7.3	0.002883562	
03	Beryllium	5	40	0.0000318	0.0000511	0.073	0.0007	
03	Bromodichloromethane	6	50	0.000207	0.00044	0.73	0.00060274	
03	Bromoform	6	83.33	0.0011	0.00335	0.73	0.004589041	
03	Cadmium (Water)	5	40	0.0000765	0.0000929	0.018	0.005161111	
03	Chloride	5	100	9	34			
03	Chlorine (as Cl2)	6	100	0.05	0.3			
03	Chloroform	6	50	0.000214	0.00393	0.13	0.030230769	
03	Chromium	5	80	0.000476	0.0011			
03	cis-1,2-Dichloroethene	6	16.67	0.000321	0.000321	0.37	0.000867568	
03	Cobalt	5	80	0.000042	0.00065			
03	Copper	5	100	0.10735	0.3015	1.5	0.201	
03	Dibromochloromethane	6	83.33	0.000247	0.00114	0.73	0.001561644	
03	Dissolved Oxygen	6	100	8.25	10.29			
03	Fecal Steptococcus	5	100					
03	Fluoride	5	40	0.445	0.978			
03	Heterotrophic plate count	5	100		199			
03	Iron	5	40	0.0117	0.10845	26	0.004171154	
03	Lead	5	100	0.0001845	0.014	0.02	0.7	
03	Manganese (nonfood)	5	100	0.000285	0.0111	0.88	0.012613636	
03	Mercury	5	100	0.000015	0.000023	0.00063	0.036507937	
03	Nickel	5	100	0.0005065	0.246	0.73	0.336986301	
03	Nitrate (measured as NO3-)	5	100	3.71	40.4	255.2	0.15830721	
03	Oxidation Reduction Potential	6	100	0.29	608			
03	Ph	6	100	6.84	7.92			
03	Salinity	6	100					
03	Selenium	5	80	0.000256	0.000705	0.18	0.003916667	
03	Specific Conductance	6	100	0.082	87.2			
03	Sulfate	5	100	6.025	39.4			
03	Temperature	6	100	14.94	22.7			
03	Tetrachloroethene	6	33.33	0.000171	0.000321	0.22	0.001459091	
03	Tin	5	80	0.00011	0.0004605	22	2.09318E-05	
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	7.2E-12	6.81E-11	0.000000037	0.001840541	
03	Total Dissolved Solids	2	100	0.6	0.6			
03	TOTAL HPCDD	5	100	9.2E-10	4.1E-09			
03	TOTAL HPCDF	5	100	1.6E-09	9.4E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,1-Trichloroethane	6	16.67	0.000215	0.000215			
03	1,1-Dichloroethene	6	16.67	0.000153	0.000153			
03	Acetone	6	16.67	0.00104	0.00104			
03	Aluminum	5	40	0.00571	0.0081			
03	Antimony	5	60	0.000181	0.00089			
03	Arsenic	5	100	0.00154	0.003675			
03	Barium	5	100	0.01215	0.02105			
03	Beryllium	5	40	0.0000318	0.0000511			
03	Bromodichloromethane	6	50	0.000207	0.00044			
03	Bromoform	6	83.33	0.0011	0.00335			
03	Cadmium (Water)	5	40	0.0000765	0.0000929			
03	Chloride	5	100	9	34			
03	Chlorine (as Cl2)	6	100	0.05	0.3			
03	Chloroform	6	50	0.000214	0.00393	0.00021	18.71428571	50
03	Chromium	5	80	0.000476	0.0011			
03	cis-1,2-Dichloroethene	6	16.67	0.000321	0.000321			
03	Cobalt	5	80	0.000042	0.00065			
03	Copper	5	100	0.10735	0.3015			
03	Dibromochloromethane	6	83.33	0.000247	0.00114			
03	Dissolved Oxygen	6	100	8.25	10.29			
03	Fecal Steptococcus	5	100					
03	Fluoride	5	40	0.445	0.978			
03	Heterotrophic plate count	5	100		199			
03	Iron	5	40	0.0117	0.10845			
03	Lead	5	100	0.0001845	0.014			
03	Manganese (nonfood)	5	100	0.000285	0.0111			
03	Mercury	5	100	0.000015	0.000023			
03	Nickel	5	100	0.0005065	0.246			
03	Nitrate (measured as NO3-)	5	100	3.71	40.4			
03	Oxidation Reduction Potential	6	100	0.29	608			
03	Ph	6	100	6.84	7.92			
03	Salinity	6	100					
03	Selenium	5	80	0.000256	0.000705			
03	Specific Conductance	6	100	0.082	87.2			
03	Sulfate	5	100	6.025	39.4			
03	Temperature	6	100	14.94	22.7			
03	Tetrachloroethene	6	33.33	0.000171	0.000321	0.00082	0.391463415	
03	Tin	5	80	0.00011	0.0004605			
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	7.2E-12	6.81E-11			
03	Total Dissolved Solids	2	100	0.6	0.6			
03	TOTAL HPCDD	5	100	9.2E-10	4.1E-09			
03	TOTAL HPCDF	5	100	1.6E-09	9.4E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,1-Trichloroethane	6	16.67	0.000215	0.000215	10	0.0000215	
03	1,1-Dichloroethene	6	16.67	0.000153	0.000153	0.42	0.000364286	
03	Acetone	6	16.67	0.00104	0.00104	64	0.00001625	
03	Aluminum	5	40	0.00571	0.0081			
03	Antimony	5	60	0.000181	0.00089			
03	Arsenic	5	100	0.00154	0.003675			
03	Barium	5	100	0.01215	0.02105			
03	Beryllium	5	40	0.0000318	0.0000511			
03	Bromodichloromethane	6	50	0.000207	0.00044			
03	Bromoform	6	83.33	0.0011	0.00335			
03	Cadmium (Water)	5	40	0.0000765	0.0000929			
03	Chloride	5	100	9	34			
03	Chlorine (as Cl2)	6	100	0.05	0.3			
03	Chloroform	6	50	0.000214	0.00393	0.2	0.01965	
03	Chromium	5	80	0.000476	0.0011			
03	cis-1,2-Dichloroethene	6	16.67	0.000321	0.000321			
03	Cobalt	5	80	0.000042	0.00065			
03	Copper	5	100	0.10735	0.3015			
03	Dibromochloromethane	6	83.33	0.000247	0.00114			
03	Dissolved Oxygen	6	100	8.25	10.29			
03	Fecal Streptococcus	5	100					
03	Fluoride	5	40	0.445	0.978			
03	Heterotrophic plate count	5	100		199			
03	Iron	5	40	0.0117	0.10845			
03	Lead	5	100	0.0001845	0.014			
03	Manganese (nonfood)	5	100	0.000285	0.0111			
03	Mercury	5	100	0.000015	0.000023	0.00063	0.036507937	
03	Nickel	5	100	0.0005065	0.246			
03	Nitrate (measured as NO3-)	5	100	3.71	40.4			
03	Oxidation Reduction Potential	6	100	0.29	608			
03	Ph	6	100	6.84	7.92			
03	Salinity	6	100					
03	Selenium	5	80	0.000256	0.000705			
03	Specific Conductance	6	100	0.082	87.2			
03	Sulfate	5	100	6.025	39.4			
03	Temperature	6	100	14.94	22.7			
03	Tetrachloroethene	6	33.33	0.000171	0.000321	0.57	0.000563158	
03	Tin	5	80	0.00011	0.0004605			
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	7.2E-12	6.81E-11			
03	Total Dissolved Solids	2	100	0.6	0.6			
03	TOTAL HPCDD	5	100	9.2E-10	4.1E-09			
03	TOTAL HPCDF	5	100	1.6E-09	9.4E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,1-Trichloroethane	6	16.67	0.000215	0.000215	0.2	0.001075	
03	1,1-Dichloroethene	6	16.67	0.000153	0.000153	0.007	0.021857143	
03	Acetone	6	16.67	0.00104	0.00104			
03	Aluminum	5	40	0.00571	0.0081			
03	Antimony	5	60	0.000181	0.00089	0.006	0.148333333	
03	Arsenic	5	100	0.00154	0.003675	0.01	0.3675	
03	Barium	5	100	0.01215	0.02105	2	0.010525	
03	Beryllium	5	40	0.0000318	0.0000511	0.004	0.012775	
03	Bromodichloromethane	6	50	0.000207	0.00044			
03	Bromoform	6	83.33	0.0011	0.00335			
03	Cadmium (Water)	5	40	0.0000765	0.0000929	0.005	0.01858	
03	Chloride	5	100	9	34			
03	Chlorine (as Cl2)	6	100	0.05	0.3	4.01	0.074812968	
03	Chloroform	6	50	0.000214	0.00393			
03	Chromium	5	80	0.000476	0.0011	0.1	0.011	
03	cis-1,2-Dichloroethene	6	16.67	0.000321	0.000321	0.07	0.004585714	
03	Cobalt	5	80	0.000042	0.00065			
03	Copper	5	100	0.10735	0.3015			
03	Dibromochloromethane	6	83.33	0.000247	0.00114			
03	Dissolved Oxygen	6	100	8.25	10.29			
03	Fecal Streptococcus	5	100					
03	Fluoride	5	40	0.445	0.978	4	0.2445	
03	Heterotrophic plate count	5	100		199			
03	Iron	5	40	0.0117	0.10845			
03	Lead	5	100	0.0001845	0.014			
03	Manganese (nonfood)	5	100	0.000285	0.0111			
03	Mercury	5	100	0.000015	0.000023	0.002	0.0115	
03	Nickel	5	100	0.0005065	0.246			
03	Nitrate (measured as NO3-)	5	100	3.71	40.4	44.3	0.911963883	
03	Oxidation Reduction Potential	6	100	0.29	608			
03	Ph	6	100	6.84	7.92			
03	Salinity	6	100					
03	Selenium	5	80	0.000256	0.000705	0.05	0.0141	
03	Specific Conductance	6	100	0.082	87.2			
03	Sulfate	5	100	6.025	39.4			
03	Temperature	6	100	14.94	22.7			
03	Tetrachloroethene	6	33.33	0.000171	0.000321	0.005	0.0642	
03	Tin	5	80	0.00011	0.0004605			
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	7.2E-12	6.81E-11	0.00000003	0.00227	
03	Total Dissolved Solids	2	100	0.6	0.6			
03	TOTAL HPCDD	5	100	9.2E-10	4.1E-09			
03	TOTAL HPCDF	5	100	1.6E-09	9.4E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	TOTAL HXCDD	5	60	7.8E-10	0.000000001			
03	TOTAL HXCDF	5	60	2.1E-09	4.7E-09			
03	TOTAL PECDD	5	20	3.8E-10	3.8E-10			
03	TOTAL PECDF	5	80	4E-10	1.6E-09			
03	TOTAL TCDD	5	60	4.8E-10	1.8E-09			
03	TOTAL TCDF	5	100	3.8E-10	1.7E-09			
03	Total Trihalomethanes	6	83.33	0.0020295	0.007739			
03	Trichloroethene	6	50	0.000377	0.000819	0.0017	0.481764706	
03	Turbidity	3	100		3.3			
03	Uranium	5	100	0.000865	0.00407			
03	Vanadium	5	100	0.00114	0.00579			
03	Zinc	5	100	0.0166	0.984			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	TOTAL HXCDD	5	60	7.8E-10	0.000000001			
03	TOTAL HXCDF	5	60	2.1E-09	4.7E-09			
03	TOTAL PECDD	5	20	3.8E-10	3.8E-10			
03	TOTAL PECDF	5	80	4E-10	1.6E-09			
03	TOTAL TCDD	5	60	4.8E-10	1.8E-09			
03	TOTAL TCDF	5	100	3.8E-10	1.7E-09			
03	Total Trihalomethanes	6	83.33	0.0020295	0.007739			
03	Trichloroethene	6	50	0.000377	0.000819			
03	Turbidity	3	100		3.3			
03	Uranium	5	100	0.000865	0.00407	0.11	0.037	
03	Vanadium	5	100	0.00114	0.00579	0.26	0.022269231	
03	Zinc	5	100	0.0166	0.984	11	0.089454545	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	TOTAL HXCDD	5	60	7.8E-10	0.000000001			
03	TOTAL HXCDF	5	60	2.1E-09	4.7E-09			
03	TOTAL PECDD	5	20	3.8E-10	3.8E-10			
03	TOTAL PECDF	5	80	4E-10	1.6E-09			
03	TOTAL TCDD	5	60	4.8E-10	1.8E-09			
03	TOTAL TCDF	5	100	3.8E-10	1.7E-09			
03	Total Trihalomethanes	6	83.33	0.0020295	0.007739			
03	Trichloroethene	6	50	0.000377	0.000819	0.0024	0.34125	
03	Turbidity	3	100		3.3			
03	Uranium	5	100	0.000865	0.00407			
03	Vanadium	5	100	0.00114	0.00579			
03	Zinc	5	100	0.0166	0.984			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	TOTAL HXCDD	5	60	7.8E-10	0.000000001			
03	TOTAL HXCDF	5	60	2.1E-09	4.7E-09			
03	TOTAL PECDD	5	20	3.8E-10	3.8E-10			
03	TOTAL PECDF	5	80	4E-10	1.6E-09			
03	TOTAL TCDD	5	60	4.8E-10	1.8E-09			
03	TOTAL TCDF	5	100	3.8E-10	1.7E-09			
03	Total Trihalomethanes	6	83.33	0.0020295	0.007739			
03	Trichloroethene	6	50	0.000377	0.000819			
03	Turbidity	3	100		3.3			
03	Uranium	5	100	0.000865	0.00407			
03	Vanadium	5	100	0.00114	0.00579			
03	Zinc	5	100	0.0166	0.984			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	TOTAL HXCDD	5	60	7.8E-10	0.000000001			
03	TOTAL HXCDF	5	60	2.1E-09	4.7E-09			
03	TOTAL PECDD	5	20	3.8E-10	3.8E-10			
03	TOTAL PECDF	5	80	4E-10	1.6E-09			
03	TOTAL TCDD	5	60	4.8E-10	1.8E-09			
03	TOTAL TCDF	5	100	3.8E-10	1.7E-09			
03	Total Trihalomethanes	6	83.33	0.0020295	0.007739	0.0807	0.095898389	
03	Trichloroethene	6	50	0.000377	0.000819	0.005	0.1638	
03	Turbidity	3	100		3.3			
03	Uranium	5	100	0.000865	0.00407	0.03	0.135666667	
03	Vanadium	5	100	0.00114	0.00579			
03	Zinc	5	100	0.0166	0.984			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	Arsenic	3	100	0.00187	0.00384	0.000045	85.33333333	100
04	Barium	3	66.67	0.0151	0.0162			
04	Beryllium	3	33.33	0.000049	0.000049			
04	Bromodichloromethane	3	66.67	0.000256	0.000422	0.0011	0.383636364	
04	Bromoform	3	100	0.00116	0.00536	0.0085	0.630588235	
04	Chloride	3	100	9.99	11.6			
04	Chlorine (as Cl2)	3	100	0.02	0.06			
04	Chloroform	3	33.33	0.000103	0.000103	0.00019	0.542105263	
04	Chromium	3	100	0.000534	0.000724			
04	Cobalt	3	100	0.0000452	0.0000868			
04	Copper	3	100	0.065	0.123			
04	Dibromochloromethane	3	66.67	0.00055	0.00124	0.0008	1.55	33.33333333
04	Dissolved Oxygen	3	100	6.34	9.02			
04	Fecal Steptococcus	3	100					
04	Heterotrophic plate count	3	100	2	5			
04	Iron	3	33.33	0.0082	0.0082			
04	Lead	3	100	0.0012	0.0046			
04	Manganese (nonfood)	3	100	0.00024	0.00256			
04	Mercury	3	33.33	0.000026	0.000026			
04	Nickel	3	100	0.00058	0.00218			
04	Nitrate (measured as NO3-)	3	100	3.35	3.68			
04	Oxidation Reduction Potential	3	100	358	563			
04	Ph	3	100	7.07	7.41			
04	Salinity	3	100		0.1			
04	Selenium	3	100	0.000257	0.000374			
04	Specific Conductance	3	100	0.106	6.34			
04	Sulfate	3	100	9.78	10.2			
04	Temperature	3	100	22.8	27.08			
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	33.33	5.203E-10	5.203E-10	5.2E-10	1.000576923	33.33333333
04	TOTAL HPCDD	3	100	1.6E-09	0.000000003			
04	TOTAL HPCDF	3	100	4.1E-09	5.8E-09			
04	TOTAL HXCDD	3	100	5E-10	7.8E-10			
04	TOTAL HXCDF	3	100	0.000000001	2.3E-09			
04	TOTAL PECDD	3	33.33	5.2E-10	5.2E-10			
04	TOTAL PECDF	3	100	8E-10	1.4E-09			
04	TOTAL TCDD	3	100	7.1E-10	8.8E-10			
04	TOTAL TCDF	3	100	6.2E-10	1.3E-09			
04	Total Trihalomethanes	3	100	0.0013	0.006856			
04	Uranium	3	100	0.00112	0.00137			
04	Zinc	3	100	0.0484	1.87			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	Arsenic	3	100	0.00187	0.00384	0.011	0.349090909	
04	Barium	3	66.67	0.0151	0.0162	7.3	0.002219178	
04	Beryllium	3	33.33	0.000049	0.000049	0.073	0.000671233	
04	Bromodichloromethane	3	66.67	0.000256	0.000422	0.73	0.000578082	
04	Bromoform	3	100	0.00116	0.00536	0.73	0.007342466	
04	Chloride	3	100	9.99	11.6			
04	Chlorine (as Cl2)	3	100	0.02	0.06			
04	Chloroform	3	33.33	0.000103	0.000103	0.13	0.000792308	
04	Chromium	3	100	0.000534	0.000724			
04	Cobalt	3	100	0.0000452	0.0000868			
04	Copper	3	100	0.065	0.123	1.5	0.082	
04	Dibromochloromethane	3	66.67	0.00055	0.00124	0.73	0.00169863	
04	Dissolved Oxygen	3	100	6.34	9.02			
04	Fecal Steptococcus	3	100					
04	Heterotrophic plate count	3	100	2	5			
04	Iron	3	33.33	0.0082	0.0082	26	0.000315385	
04	Lead	3	100	0.0012	0.0046	0.02	0.23	
04	Manganese (nonfood)	3	100	0.00024	0.00256	0.88	0.002909091	
04	Mercury	3	33.33	0.000026	0.000026	0.00063	0.041269841	
04	Nickel	3	100	0.00058	0.00218	0.73	0.002986301	
04	Nitrate (measured as NO3-)	3	100	3.35	3.68	255.2	0.014420063	
04	Oxidation Reduction Potential	3	100	358	563			
04	Ph	3	100	7.07	7.41			
04	Salinity	3	100		0.1			
04	Selenium	3	100	0.000257	0.000374	0.18	0.002077778	
04	Specific Conductance	3	100	0.106	6.34			
04	Sulfate	3	100	9.78	10.2			
04	Temperature	3	100	22.8	27.08			
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	33.33	5.203E-10	5.203E-10	0.000000037	0.014062162	
04	TOTAL HPCDD	3	100	1.6E-09	0.000000003			
04	TOTAL HPCDF	3	100	4.1E-09	5.8E-09			
04	TOTAL HXCDD	3	100	5E-10	7.8E-10			
04	TOTAL HXCDF	3	100	0.000000001	2.3E-09			
04	TOTAL PECDD	3	33.33	5.2E-10	5.2E-10			
04	TOTAL PECDF	3	100	8E-10	1.4E-09			
04	TOTAL TCDD	3	100	7.1E-10	8.8E-10			
04	TOTAL TCDF	3	100	6.2E-10	1.3E-09			
04	Total Trihalomethanes	3	100	0.0013	0.006856			
04	Uranium	3	100	0.00112	0.00137	0.11	0.012454545	
04	Zinc	3	100	0.0484	1.87	11	0.17	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	Arsenic	3	100	0.00187	0.00384			
04	Barium	3	66.67	0.0151	0.0162			
04	Beryllium	3	33.33	0.000049	0.000049			
04	Bromodichloromethane	3	66.67	0.000256	0.000422			
04	Bromoform	3	100	0.00116	0.00536			
04	Chloride	3	100	9.99	11.6			
04	Chlorine (as Cl2)	3	100	0.02	0.06			
04	Chloroform	3	33.33	0.000103	0.000103	0.00021	0.49047619	
04	Chromium	3	100	0.000534	0.000724			
04	Cobalt	3	100	0.0000452	0.0000868			
04	Copper	3	100	0.065	0.123			
04	Dibromochloromethane	3	66.67	0.00055	0.00124			
04	Dissolved Oxygen	3	100	6.34	9.02			
04	Fecal Steptococcus	3	100					
04	Heterotrophic plate count	3	100	2	5			
04	Iron	3	33.33	0.0082	0.0082			
04	Lead	3	100	0.0012	0.0046			
04	Manganese (nonfood)	3	100	0.00024	0.00256			
04	Mercury	3	33.33	0.000026	0.000026			
04	Nickel	3	100	0.00058	0.00218			
04	Nitrate (measured as NO3-)	3	100	3.35	3.68			
04	Oxidation Reduction Potential	3	100	358	563			
04	Ph	3	100	7.07	7.41			
04	Salinity	3	100		0.1			
04	Selenium	3	100	0.000257	0.000374			
04	Specific Conductance	3	100	0.106	6.34			
04	Sulfate	3	100	9.78	10.2			
04	Temperature	3	100	22.8	27.08			
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	33.33	5.203E-10	5.203E-10			
04	TOTAL HPCDD	3	100	1.6E-09	0.000000003			
04	TOTAL HPCDF	3	100	4.1E-09	5.8E-09			
04	TOTAL HXCDD	3	100	5E-10	7.8E-10			
04	TOTAL HXCDF	3	100	0.000000001	2.3E-09			
04	TOTAL PECDD	3	33.33	5.2E-10	5.2E-10			
04	TOTAL PECDF	3	100	8E-10	1.4E-09			
04	TOTAL TCDD	3	100	7.1E-10	8.8E-10			
04	TOTAL TCDF	3	100	6.2E-10	1.3E-09			
04	Total Trihalomethanes	3	100	0.0013	0.006856			
04	Uranium	3	100	0.00112	0.00137			
04	Zinc	3	100	0.0484	1.87			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	Arsenic	3	100	0.00187	0.00384			
04	Barium	3	66.67	0.0151	0.0162			
04	Beryllium	3	33.33	0.000049	0.000049			
04	Bromodichloromethane	3	66.67	0.000256	0.000422			
04	Bromoform	3	100	0.00116	0.00536			
04	Chloride	3	100	9.99	11.6			
04	Chlorine (as Cl ₂)	3	100	0.02	0.06			
04	Chloroform	3	33.33	0.000103	0.000103	0.2	0.000515	
04	Chromium	3	100	0.000534	0.000724			
04	Cobalt	3	100	0.0000452	0.0000868			
04	Copper	3	100	0.065	0.123			
04	Dibromochloromethane	3	66.67	0.00055	0.00124			
04	Dissolved Oxygen	3	100	6.34	9.02			
04	Fecal Steptococcus	3	100					
04	Heterotrophic plate count	3	100	2	5			
04	Iron	3	33.33	0.0082	0.0082			
04	Lead	3	100	0.0012	0.0046			
04	Manganese (nonfood)	3	100	0.00024	0.00256			
04	Mercury	3	33.33	0.000026	0.000026	0.00063	0.041269841	
04	Nickel	3	100	0.00058	0.00218			
04	Nitrate (measured as NO ₃ -)	3	100	3.35	3.68			
04	Oxidation Reduction Potential	3	100	358	563			
04	Ph	3	100	7.07	7.41			
04	Salinity	3	100		0.1			
04	Selenium	3	100	0.000257	0.000374			
04	Specific Conductance	3	100	0.106	6.34			
04	Sulfate	3	100	9.78	10.2			
04	Temperature	3	100	22.8	27.08			
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	33.33	5.203E-10	5.203E-10			
04	TOTAL HPCDD	3	100	1.6E-09	0.000000003			
04	TOTAL HPCDF	3	100	4.1E-09	5.8E-09			
04	TOTAL HXCDD	3	100	5E-10	7.8E-10			
04	TOTAL HXCDF	3	100	0.000000001	2.3E-09			
04	TOTAL PECDD	3	33.33	5.2E-10	5.2E-10			
04	TOTAL PECDF	3	100	8E-10	1.4E-09			
04	TOTAL TCDD	3	100	7.1E-10	8.8E-10			
04	TOTAL TCDF	3	100	6.2E-10	1.3E-09			
04	Total Trihalomethanes	3	100	0.0013	0.006856			
04	Uranium	3	100	0.00112	0.00137			
04	Zinc	3	100	0.0484	1.87			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	Arsenic	3	100	0.00187	0.00384	0.01	0.384	
04	Barium	3	66.67	0.0151	0.0162	2	0.0081	
04	Beryllium	3	33.33	0.000049	0.000049	0.004	0.01225	
04	Bromodichloromethane	3	66.67	0.000256	0.000422			
04	Bromoform	3	100	0.00116	0.00536			
04	Chloride	3	100	9.99	11.6			
04	Chlorine (as Cl ₂)	3	100	0.02	0.06	4.01	0.014962594	
04	Chloroform	3	33.33	0.000103	0.000103			
04	Chromium	3	100	0.000534	0.000724	0.1	0.00724	
04	Cobalt	3	100	0.0000452	0.0000868			
04	Copper	3	100	0.065	0.123			
04	Dibromochloromethane	3	66.67	0.00055	0.00124			
04	Dissolved Oxygen	3	100	6.34	9.02			
04	Fecal Streptococcus	3	100					
04	Heterotrophic plate count	3	100	2	5			
04	Iron	3	33.33	0.0082	0.0082			
04	Lead	3	100	0.0012	0.0046			
04	Manganese (nonfood)	3	100	0.00024	0.00256			
04	Mercury	3	33.33	0.000026	0.000026	0.002	0.013	
04	Nickel	3	100	0.00058	0.00218			
04	Nitrate (measured as NO ₃ -)	3	100	3.35	3.68	44.3	0.083069977	
04	Oxidation Reduction Potential	3	100	358	563			
04	Ph	3	100	7.07	7.41			
04	Salinity	3	100		0.1			
04	Selenium	3	100	0.000257	0.000374	0.05	0.00748	
04	Specific Conductance	3	100	0.106	6.34			
04	Sulfate	3	100	9.78	10.2			
04	Temperature	3	100	22.8	27.08			
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	33.33	5.203E-10	5.203E-10	0.00000003	0.017343333	
04	TOTAL HPCDD	3	100	1.6E-09	0.000000003			
04	TOTAL HPCDF	3	100	4.1E-09	5.8E-09			
04	TOTAL HXCDD	3	100	5E-10	7.8E-10			
04	TOTAL HXCDF	3	100	0.000000001	2.3E-09			
04	TOTAL PECDD	3	33.33	5.2E-10	5.2E-10			
04	TOTAL PECDF	3	100	8E-10	1.4E-09			
04	TOTAL TCDD	3	100	7.1E-10	8.8E-10			
04	TOTAL TCDF	3	100	6.2E-10	1.3E-09			
04	Total Trihalomethanes	3	100	0.0013	0.006856	0.0807	0.084956629	
04	Uranium	3	100	0.00112	0.00137	0.03	0.045666667	
04	Zinc	3	100	0.0484	1.87			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,2,3-Trichlorobenzene	26	3.85	0.000333	0.000333			
05	1,2,4-Trichlorobenzene	26	3.85	0.000305	0.000305	0.019	0.016052632	
05	1,2-Dichloropropane	26	3.85	0.000184	0.000184	0.00039	0.471794872	
05	Acetone	26	7.69	0.00108	0.0011			
05	Aluminum	26	53.85	0.00271	0.0325			
05	Antimony	26	15.38	0.000146	0.00032			
05	Arsenic	26	100	0.00198	0.00468	0.000045	104	100
05	Barium	26	100	0.00854	0.0157			
05	Benzene	26	3.85	0.0000875	0.0000875	0.00041	0.213414634	
05	Beryllium	26	30.77	0.0000308	0.000114			
05	Bromodichloromethane	26	73.08	0.000125	0.000395	0.0011	0.359090909	
05	Bromoform	26	88.46	0.000447	0.00199	0.0085	0.234117647	
05	Butylbenzylphthalate	26	7.69	0.000193	0.000248			
05	Cadmium (Water)	26	23.08	0.0000565	0.000553			
05	Chloride	26	100	6	51.7			
05	Chlorine (as Cl2)	30	100	0.01	0.7			
05	Chloroform	26	34.62	0.0000921	0.000245	0.00019	1.289473684	3.846153846
05	Chromium	26	88.46	0.000265	0.000852			
05	Cobalt	26	88.46	0.0000347	0.000175			
05	Copper	26	100	0.0117	0.375			
05	Dibromochloromethane	26	88.46	0.000168	0.000862	0.0008	1.0775	7.692307692
05	Di-n-octylphthalate	26	3.85	0.00129	0.00129			
05	Dissolved Oxygen	30	100	2.84	10.41			
05	Fecal Coliform	30	3.33	1	1			
05	Fecal Streptococcus	30	100					
05	Fluoride	26	3.85	0.521	0.521			
05	Heterotrophic plate count	30	100		1200			
05	Iron	26	61.54	0.00502	0.209			
05	Lead	26	100	0.000552	0.0134			
05	Manganese (nonfood)	26	76.92	0.000131	0.0135			
05	Mercury	26	42.31	0.000015	0.000027			
05	Nickel	26	100	0.000419	0.198			
05	Nitrate (measured as NO3-)	26	100	2.4	35.7			
05	Oxidation Reduction Potential	30	100	66.1	656			
05	Ph	30	100	6.73	7.72			
05	Salinity	30	100		0.1			
05	Selenium	26	42.31	0.0002	0.000895			
05	Silver	26	3.85	0.000276	0.000276			
05	Specific Conductance	30	100	0.1	93.7			
05	Sulfate	26	100	3.71	41.6			
05	Temperature	30	100	18.3	28.88			
05	Tetrachloroethene	26	3.85	0.000105	0.000105	0.00011	0.954545455	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,2,3-Trichlorobenzene	26	3.85	0.000333	0.000333			
05	1,2,4-Trichlorobenzene	26	3.85	0.000305	0.000305	0.37	0.000824324	
05	1,2-Dichloropropane	26	3.85	0.000184	0.000184	0.0083	0.022168675	
05	Acetone	26	7.69	0.00108	0.0011	22	0.00005	
05	Aluminum	26	53.85	0.00271	0.0325	37	0.000878378	
05	Antimony	26	15.38	0.000146	0.00032	0.015	0.021333333	
05	Arsenic	26	100	0.00198	0.00468	0.011	0.425454545	
05	Barium	26	100	0.00854	0.0157	7.3	0.002150685	
05	Benzene	26	3.85	0.0000875	0.0000875	0.044	0.001988636	
05	Beryllium	26	30.77	0.0000308	0.000114	0.073	0.001561644	
05	Bromodichloromethane	26	73.08	0.000125	0.000395	0.73	0.000541096	
05	Bromoform	26	88.46	0.000447	0.00199	0.73	0.002726027	
05	Butylbenzylphthalate	26	7.69	0.000193	0.000248	7.3	3.39726E-05	
05	Cadmium (Water)	26	23.08	0.0000565	0.000553	0.018	0.030722222	
05	Chloride	26	100	6	51.7			
05	Chlorine (as Cl2)	30	100	0.01	0.7			
05	Chloroform	26	34.62	0.0000921	0.000245	0.13	0.001884615	
05	Chromium	26	88.46	0.000265	0.000852			
05	Cobalt	26	88.46	0.0000347	0.000175			
05	Copper	26	100	0.0117	0.375	1.5	0.25	
05	Dibromochloromethane	26	88.46	0.000168	0.000862	0.73	0.001180822	
05	Di-n-octylphthalate	26	3.85	0.00129	0.00129			
05	Dissolved Oxygen	30	100	2.84	10.41			
05	Fecal Coliform	30	3.33	1	1			
05	Fecal Streptococcus	30	100					
05	Fluoride	26	3.85	0.521	0.521			
05	Heterotrophic plate count	30	100		1200			
05	Iron	26	61.54	0.00502	0.209	26	0.008038462	
05	Lead	26	100	0.000552	0.0134	0.02	0.67	
05	Manganese (nonfood)	26	76.92	0.000131	0.0135	0.88	0.015340909	
05	Mercury	26	42.31	0.000015	0.000027	0.00063	0.042857143	
05	Nickel	26	100	0.000419	0.198	0.73	0.271232877	
05	Nitrate (measured as NO3-)	26	100	2.4	35.7	255.2	0.139890282	
05	Oxidation Reduction Potential	30	100	66.1	656			
05	Ph	30	100	6.73	7.72			
05	Salinity	30	100		0.1			
05	Selenium	26	42.31	0.0002	0.000895	0.18	0.004972222	
05	Silver	26	3.85	0.000276	0.000276	0.18	0.001533333	
05	Specific Conductance	30	100	0.1	93.7			
05	Sulfate	26	100	3.71	41.6			
05	Temperature	30	100	18.3	28.88			
05	Tetrachloroethene	26	3.85	0.000105	0.000105	0.22	0.000477273	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,2,3-Trichlorobenzene	26	3.85	0.000333	0.000333			
05	1,2,4-Trichlorobenzene	26	3.85	0.000305	0.000305			
05	1,2-Dichloropropane	26	3.85	0.000184	0.000184	0.00049	0.375510204	
05	Acetone	26	7.69	0.00108	0.0011			
05	Aluminum	26	53.85	0.00271	0.0325			
05	Antimony	26	15.38	0.000146	0.00032			
05	Arsenic	26	100	0.00198	0.00468			
05	Barium	26	100	0.00854	0.0157			
05	Benzene	26	3.85	0.0000875	0.0000875	0.00062	0.141129032	
05	Beryllium	26	30.77	0.0000308	0.000114			
05	Bromodichloromethane	26	73.08	0.000125	0.000395			
05	Bromoform	26	88.46	0.000447	0.00199			
05	Butylbenzylphthalate	26	7.69	0.000193	0.000248			
05	Cadmium (Water)	26	23.08	0.0000565	0.000553			
05	Chloride	26	100	6	51.7			
05	Chlorine (as Cl2)	30	100	0.01	0.7			
05	Chloroform	26	34.62	0.0000921	0.000245	0.00021	1.166666667	3.846153846
05	Chromium	26	88.46	0.000265	0.000852			
05	Cobalt	26	88.46	0.0000347	0.000175			
05	Copper	26	100	0.0117	0.375			
05	Dibromochloromethane	26	88.46	0.000168	0.000862			
05	Di-n-octylphthalate	26	3.85	0.00129	0.00129			
05	Dissolved Oxygen	30	100	2.84	10.41			
05	Fecal Coliform	30	3.33	1	1			
05	Fecal Streptococcus	30	100					
05	Fluoride	26	3.85	0.521	0.521			
05	Heterotrophic plate count	30	100		1200			
05	Iron	26	61.54	0.00502	0.209			
05	Lead	26	100	0.000552	0.0134			
05	Manganese (nonfood)	26	76.92	0.000131	0.0135			
05	Mercury	26	42.31	0.000015	0.000027			
05	Nickel	26	100	0.000419	0.198			
05	Nitrate (measured as NO3-)	26	100	2.4	35.7			
05	Oxidation Reduction Potential	30	100	66.1	656			
05	Ph	30	100	6.73	7.72			
05	Salinity	30	100		0.1			
05	Selenium	26	42.31	0.0002	0.000895			
05	Silver	26	3.85	0.000276	0.000276			
05	Specific Conductance	30	100	0.1	93.7			
05	Sulfate	26	100	3.71	41.6			
05	Temperature	30	100	18.3	28.88			
05	Tetrachloroethene	26	3.85	0.000105	0.000105	0.00082	0.12804878	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,2,3-Trichlorobenzene	26	3.85	0.000333	0.000333			
05	1,2,4-Trichlorobenzene	26	3.85	0.000305	0.000305			
05	1,2-Dichloropropane	26	3.85	0.000184	0.000184	0.0083	0.022168675	
05	Acetone	26	7.69	0.00108	0.0011	64	1.71875E-05	
05	Aluminum	26	53.85	0.00271	0.0325			
05	Antimony	26	15.38	0.000146	0.00032			
05	Arsenic	26	100	0.00198	0.00468			
05	Barium	26	100	0.00854	0.0157			
05	Benzene	26	3.85	0.0000875	0.0000875	0.063	0.001388889	
05	Beryllium	26	30.77	0.0000308	0.000114			
05	Bromodichloromethane	26	73.08	0.000125	0.000395			
05	Bromoform	26	88.46	0.000447	0.00199			
05	Butylbenzylphthalate	26	7.69	0.000193	0.000248			
05	Cadmium (Water)	26	23.08	0.0000565	0.000553			
05	Chloride	26	100	6	51.7			
05	Chlorine (as Cl2)	30	100	0.01	0.7			
05	Chloroform	26	34.62	0.0000921	0.000245	0.2	0.001225	
05	Chromium	26	88.46	0.000265	0.000852			
05	Cobalt	26	88.46	0.0000347	0.000175			
05	Copper	26	100	0.0117	0.375			
05	Dibromochloromethane	26	88.46	0.000168	0.000862			
05	Di-n-octylphthalate	26	3.85	0.00129	0.00129			
05	Dissolved Oxygen	30	100	2.84	10.41			
05	Fecal Coliform	30	3.33	1	1			
05	Fecal Steptococcus	30	100					
05	Fluoride	26	3.85	0.521	0.521			
05	Heterotrophic plate count	30	100		1200			
05	Iron	26	61.54	0.00502	0.209			
05	Lead	26	100	0.000552	0.0134			
05	Manganese (nonfood)	26	76.92	0.000131	0.0135			
05	Mercury	26	42.31	0.000015	0.000027	0.00063	0.042857143	
05	Nickel	26	100	0.000419	0.198			
05	Nitrate (measured as NO3-)	26	100	2.4	35.7			
05	Oxidation Reduction Potential	30	100	66.1	656			
05	Ph	30	100	6.73	7.72			
05	Salinity	30	100		0.1			
05	Selenium	26	42.31	0.0002	0.000895			
05	Silver	26	3.85	0.000276	0.000276			
05	Specific Conductance	30	100	0.1	93.7			
05	Sulfate	26	100	3.71	41.6			
05	Temperature	30	100	18.3	28.88			
05	Tetrachloroethene	26	3.85	0.000105	0.000105	0.57	0.000184211	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,2,3-Trichlorobenzene	26	3.85	0.000333	0.000333			
05	1,2,4-Trichlorobenzene	26	3.85	0.000305	0.000305	0.07	0.004357143	
05	1,2-Dichloropropane	26	3.85	0.000184	0.000184	0.005	0.0368	
05	Acetone	26	7.69	0.00108	0.0011			
05	Aluminum	26	53.85	0.00271	0.0325			
05	Antimony	26	15.38	0.000146	0.00032	0.006	0.053333333	
05	Arsenic	26	100	0.00198	0.00468	0.01	0.468	
05	Barium	26	100	0.00854	0.0157	2	0.00785	
05	Benzene	26	3.85	0.0000875	0.0000875	0.005	0.0175	
05	Beryllium	26	30.77	0.0000308	0.000114	0.004	0.0285	
05	Bromodichloromethane	26	73.08	0.000125	0.000395			
05	Bromoform	26	88.46	0.000447	0.00199			
05	Butylbenzylphthalate	26	7.69	0.000193	0.000248			
05	Cadmium (Water)	26	23.08	0.0000565	0.000553	0.005	0.1106	
05	Chloride	26	100	6	51.7			
05	Chlorine (as Cl2)	30	100	0.01	0.7	4.01	0.174563591	
05	Chloroform	26	34.62	0.0000921	0.000245			
05	Chromium	26	88.46	0.000265	0.000852	0.1	0.00852	
05	Cobalt	26	88.46	0.0000347	0.000175			
05	Copper	26	100	0.0117	0.375			
05	Dibromochloromethane	26	88.46	0.000168	0.000862			
05	Di-n-octylphthalate	26	3.85	0.00129	0.00129			
05	Dissolved Oxygen	30	100	2.84	10.41			
05	Fecal Coliform	30	3.33	1	1		1.1	3.333333333
05	Fecal Steptococcus	30	100					
05	Fluoride	26	3.85	0.521	0.521	4	0.13025	
05	Heterotrophic plate count	30	100		1200			
05	Iron	26	61.54	0.00502	0.209			
05	Lead	26	100	0.000552	0.0134			
05	Manganese (nonfood)	26	76.92	0.000131	0.0135			
05	Mercury	26	42.31	0.000015	0.000027	0.002	0.0135	
05	Nickel	26	100	0.000419	0.198			
05	Nitrate (measured as NO3-)	26	100	2.4	35.7	44.3	0.805869074	
05	Oxidation Reduction Potential	30	100	66.1	656			
05	Ph	30	100	6.73	7.72			
05	Salinity	30	100		0.1			
05	Selenium	26	42.31	0.0002	0.000895	0.05	0.0179	
05	Silver	26	3.85	0.000276	0.000276			
05	Specific Conductance	30	100	0.1	93.7			
05	Sulfate	26	100	3.71	41.6			
05	Temperature	30	100	18.3	28.88			
05	Tetrachloroethene	26	3.85	0.000105	0.000105	0.005	0.021	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Thallium	26	7.69	0.000807	0.000863			
05	Tin	26	30.77	0.000106	0.00355			
05	Total Coliforms (including fecal coliform and E. C	30	6.67	2	4.2			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	26	69.23	1.3E-11	1.92068E-09	5.2E-10	3.693605769	7.692307692
05	TOTAL HPCDD	26	73.08	7.6E-10	5.5E-09			
05	TOTAL HPCDF	26	73.08	9.4E-10	8.7E-09			
05	TOTAL HXCDD	26	26.92	5.5E-10	2.9E-09			
05	TOTAL HXCDF	26	23.08	7.1E-10	2.8E-09			
05	TOTAL PECDD	26	19.23	2.4E-10	0.000000001			
05	TOTAL PECDF	26	57.69	3.9E-10	1.5E-09			
05	TOTAL TCDD	26	26.92	3.8E-10	0.000000003			
05	TOTAL TCDF	26	57.69	3.4E-10	1.5E-09			
05	Total Trihalomethanes	26	92.31	0.0002631	0.003092			
05	Turbidity	10	100	2	16.5			
05	Uranium	26	100	0.000392	0.00136			
05	Vanadium	26	46.15	0.00103	0.00255			
05	Zinc	26	100	0.0227	1.63			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Thallium	26	7.69	0.000807	0.000863	0.0024	0.359583333	
05	Tin	26	30.77	0.000106	0.00355	22	0.000161364	
05	Total Coliforms (including fecal coliform and E. C	30	6.67	2	4.2			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	26	69.23	1.3E-11	1.92068E-09	0.000000037	0.051910135	
05	TOTAL HPCDD	26	73.08	7.6E-10	5.5E-09			
05	TOTAL HPCDF	26	73.08	9.4E-10	8.7E-09			
05	TOTAL HXCDD	26	26.92	5.5E-10	2.9E-09			
05	TOTAL HXCDF	26	23.08	7.1E-10	2.8E-09			
05	TOTAL PECDD	26	19.23	2.4E-10	0.000000001			
05	TOTAL PECDF	26	57.69	3.9E-10	1.5E-09			
05	TOTAL TCDD	26	26.92	3.8E-10	0.000000003			
05	TOTAL TCDF	26	57.69	3.4E-10	1.5E-09			
05	Total Trihalomethanes	26	92.31	0.0002631	0.003092			
05	Turbidity	10	100	2	16.5			
05	Uranium	26	100	0.000392	0.00136	0.11	0.012363636	
05	Vanadium	26	46.15	0.00103	0.00255	0.26	0.009807692	
05	Zinc	26	100	0.0227	1.63	11	0.148181818	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Thallium	26	7.69	0.000807	0.000863			
05	Tin	26	30.77	0.000106	0.00355			
05	Total Coliforms (including fecal coliform and E. C	30	6.67	2	4.2			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	26	69.23	1.3E-11	1.92068E-09			
05	TOTAL HPCDD	26	73.08	7.6E-10	5.5E-09			
05	TOTAL HPCDF	26	73.08	9.4E-10	8.7E-09			
05	TOTAL HXCDD	26	26.92	5.5E-10	2.9E-09			
05	TOTAL HXCDF	26	23.08	7.1E-10	2.8E-09			
05	TOTAL PECDD	26	19.23	2.4E-10	0.000000001			
05	TOTAL PECDF	26	57.69	3.9E-10	1.5E-09			
05	TOTAL TCDD	26	26.92	3.8E-10	0.000000003			
05	TOTAL TCDF	26	57.69	3.4E-10	1.5E-09			
05	Total Trihalomethanes	26	92.31	0.0002631	0.003092			
05	Turbidity	10	100	2	16.5			
05	Uranium	26	100	0.000392	0.00136			
05	Vanadium	26	46.15	0.00103	0.00255			
05	Zinc	26	100	0.0227	1.63			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Thallium	26	7.69	0.000807	0.000863			
05	Tin	26	30.77	0.000106	0.00355			
05	Total Coliforms (including fecal coliform and E. C	30	6.67	2	4.2			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	26	69.23	1.3E-11	1.92068E-09			
05	TOTAL HPCDD	26	73.08	7.6E-10	5.5E-09			
05	TOTAL HPCDF	26	73.08	9.4E-10	8.7E-09			
05	TOTAL HXCDD	26	26.92	5.5E-10	2.9E-09			
05	TOTAL HXCDF	26	23.08	7.1E-10	2.8E-09			
05	TOTAL PECDD	26	19.23	2.4E-10	0.000000001			
05	TOTAL PECDF	26	57.69	3.9E-10	1.5E-09			
05	TOTAL TCDD	26	26.92	3.8E-10	0.000000003			
05	TOTAL TCDF	26	57.69	3.4E-10	1.5E-09			
05	Total Trihalomethanes	26	92.31	0.0002631	0.003092			
05	Turbidity	10	100	2	16.5			
05	Uranium	26	100	0.000392	0.00136			
05	Vanadium	26	46.15	0.00103	0.00255			
05	Zinc	26	100	0.0227	1.63			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Thallium	26	7.69	0.000807	0.000863	0.002	0.4315	
05	Tin	26	30.77	0.000106	0.00355			
05	Total Coliforms (including fecal coliform and E. C	30	6.67	2	4.2		1.1	6.666666667
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	26	69.23	1.3E-11	1.92068E-09	0.00000003	0.0640225	
05	TOTAL HPCDD	26	73.08	7.6E-10	5.5E-09			
05	TOTAL HPCDF	26	73.08	9.4E-10	8.7E-09			
05	TOTAL HXCDD	26	26.92	5.5E-10	2.9E-09			
05	TOTAL HXCDF	26	23.08	7.1E-10	2.8E-09			
05	TOTAL PECDD	26	19.23	2.4E-10	0.000000001			
05	TOTAL PECDF	26	57.69	3.9E-10	1.5E-09			
05	TOTAL TCDD	26	26.92	3.8E-10	0.000000003			
05	TOTAL TCDF	26	57.69	3.4E-10	1.5E-09			
05	Total Trihalomethanes	26	92.31	0.0002631	0.003092	0.0807	0.038314746	
05	Turbidity	10	100	2	16.5			
05	Uranium	26	100	0.000392	0.00136	0.03	0.045333333	
05	Vanadium	26	46.15	0.00103	0.00255			
05	Zinc	26	100	0.0227	1.63			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Acetone	14	7.14	0.00141	0.00141			
06	Aluminum	13	30.77	0.00332	0.00609			
06	Antimony	13	15.38	0.000183	0.000216			
06	Arsenic	13	100	0.00211	0.0058	0.000045	128.8888889	100
06	Barium	13	100	0.00525	0.0183			
06	Beryllium	13	23.08	0.0000307	0.00006			
06	Bromodichloromethane	14	35.71	0.000317	0.000422	0.0011	0.383636364	
06	Bromoform	14	92.86	0.000977	0.00553	0.0085	0.650588235	
06	Cadmium (Water)	13	69.23	0.0000416	0.000338			
06	Chloride	12	100	9.91	75.2			
06	Chlorine (as Cl2)	15	100	0.02	3.5			
06	Chromium	13	84.62	0.000285	0.0014			
06	Cobalt	13	100	0.0000571	0.000161			
06	Copper	13	100	0.0483	0.541			
06	Dibromochloromethane	14	85.71	0.000169	0.000995	0.0008	1.24375	28.57142857
06	Dissolved Oxygen	15	100	3.46	9.35			
06	Fecal Steptococcus	15	100					
06	Fluoride	12	83.33	0.263	1.39			
06	Heterotrophic plate count	15	100		4510			
06	Iron	13	61.54	0.00719	0.148			
06	Lead	13	100	0.00123	0.00702			
06	Manganese (nonfood)	13	100	0.000151	0.04			
06	Mercury	13	69.23	0.000015	0.000038			
06	Nickel	13	100	0.000865	0.0156			
06	Nitrate (measured as NO3-)	12	100	3.02	101			
06	Oxidation Reduction Potential	15	100	275	725			
06	Ph	15	100	6.7	7.29			
06	Salinity	15	100		0.1			
06	Selenium	13	76.92	0.000219	0.00102			
06	Specific Conductance	15	100	0.095	6.09			
06	Sulfate	12	100	7.98	108			
06	Temperature	15	100	19.5	29.8			
06	Tetrachloroethene	14	7.14	0.000155	0.000155	0.00011	1.409090909	7.142857143
06	Thallium	13	15.38	0.00004	0.0025			
06	Tin	13	30.77	0.000111	0.00021			
06	Total Coliforms (including fecal coliform and E. C	15	6.67	1	1			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	12	83.33	5.7E-12	8.769E-10	5.2E-10	1.686346154	8.333333333
06	TOTAL HPCDD	12	83.33	1.2E-09	6.5E-09			
06	TOTAL HPCDF	12	83.33	2.2E-09	0.00000005			
06	TOTAL HXCDD	12	16.67	1.1E-09	1.1E-09			
06	TOTAL HXCDF	12	25	1.2E-09	3.6E-09			
06	TOTAL PECDD	12	25	2.5E-10	4.5E-10			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Acetone	14	7.14	0.00141	0.00141	22	6.40909E-05	
06	Aluminum	13	30.77	0.00332	0.00609	37	0.000164595	
06	Antimony	13	15.38	0.000183	0.000216	0.015	0.0144	
06	Arsenic	13	100	0.00211	0.0058	0.011	0.527272727	
06	Barium	13	100	0.00525	0.0183	7.3	0.002506849	
06	Beryllium	13	23.08	0.0000307	0.00006	0.073	0.000821918	
06	Bromodichloromethane	14	35.71	0.000317	0.000422	0.73	0.000578082	
06	Bromoform	14	92.86	0.000977	0.00553	0.73	0.007575342	
06	Cadmium (Water)	13	69.23	0.0000416	0.000338	0.018	0.018777778	
06	Chloride	12	100	9.91	75.2			
06	Chlorine (as Cl2)	15	100	0.02	3.5			
06	Chromium	13	84.62	0.000285	0.0014			
06	Cobalt	13	100	0.0000571	0.000161			
06	Copper	13	100	0.0483	0.541	1.5	0.360666667	
06	Dibromochloromethane	14	85.71	0.000169	0.000995	0.73	0.001363014	
06	Dissolved Oxygen	15	100	3.46	9.35			
06	Fecal Steptococcus	15	100					
06	Fluoride	12	83.33	0.263	1.39			
06	Heterotrophic plate count	15	100		4510			
06	Iron	13	61.54	0.00719	0.148	26	0.005692308	
06	Lead	13	100	0.00123	0.00702	0.02	0.351	
06	Manganese (nonfood)	13	100	0.000151	0.04	0.88	0.045454545	
06	Mercury	13	69.23	0.000015	0.000038	0.00063	0.06031746	
06	Nickel	13	100	0.000865	0.0156	0.73	0.021369863	
06	Nitrate (measured as NO3-)	12	100	3.02	101	255.2	0.395768025	
06	Oxidation Reduction Potential	15	100	275	725			
06	Ph	15	100	6.7	7.29			
06	Salinity	15	100		0.1			
06	Selenium	13	76.92	0.000219	0.00102	0.18	0.005666667	
06	Specific Conductance	15	100	0.095	6.09			
06	Sulfate	12	100	7.98	108			
06	Temperature	15	100	19.5	29.8			
06	Tetrachloroethene	14	7.14	0.000155	0.000155	0.22	0.000704545	
06	Thallium	13	15.38	0.00004	0.0025	0.0024	1.041666667	7.692307692
06	Tin	13	30.77	0.000111	0.00021	22	9.54545E-06	
06	Total Coliforms (including fecal coliform and E. C	15	6.67	1	1			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	12	83.33	5.7E-12	8.769E-10	0.000000037	0.0237	
06	TOTAL HPCDD	12	83.33	1.2E-09	6.5E-09			
06	TOTAL HPCDF	12	83.33	2.2E-09	0.00000005			
06	TOTAL HXCDD	12	16.67	1.1E-09	1.1E-09			
06	TOTAL HXCDF	12	25	1.2E-09	3.6E-09			
06	TOTAL PECDD	12	25	2.5E-10	4.5E-10			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Acetone	14	7.14	0.00141	0.00141			
06	Aluminum	13	30.77	0.00332	0.00609			
06	Antimony	13	15.38	0.000183	0.000216			
06	Arsenic	13	100	0.00211	0.0058			
06	Barium	13	100	0.00525	0.0183			
06	Beryllium	13	23.08	0.0000307	0.00006			
06	Bromodichloromethane	14	35.71	0.000317	0.000422			
06	Bromoform	14	92.86	0.000977	0.00553			
06	Cadmium (Water)	13	69.23	0.0000416	0.000338			
06	Chloride	12	100	9.91	75.2			
06	Chlorine (as Cl2)	15	100	0.02	3.5			
06	Chromium	13	84.62	0.000285	0.0014			
06	Cobalt	13	100	0.0000571	0.000161			
06	Copper	13	100	0.0483	0.541			
06	Dibromochloromethane	14	85.71	0.000169	0.000995			
06	Dissolved Oxygen	15	100	3.46	9.35			
06	Fecal Steptococcus	15	100					
06	Fluoride	12	83.33	0.263	1.39			
06	Heterotrophic plate count	15	100		4510			
06	Iron	13	61.54	0.00719	0.148			
06	Lead	13	100	0.00123	0.00702			
06	Manganese (nonfood)	13	100	0.000151	0.04			
06	Mercury	13	69.23	0.000015	0.000038			
06	Nickel	13	100	0.000865	0.0156			
06	Nitrate (measured as NO3-)	12	100	3.02	101			
06	Oxidation Reduction Potential	15	100	275	725			
06	Ph	15	100	6.7	7.29			
06	Salinity	15	100		0.1			
06	Selenium	13	76.92	0.000219	0.00102			
06	Specific Conductance	15	100	0.095	6.09			
06	Sulfate	12	100	7.98	108			
06	Temperature	15	100	19.5	29.8			
06	Tetrachloroethene	14	7.14	0.000155	0.000155	0.00082	0.18902439	
06	Thallium	13	15.38	0.00004	0.0025			
06	Tin	13	30.77	0.000111	0.00021			
06	Total Coliforms (including fecal coliform and E. C	15	6.67	1	1			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	12	83.33	5.7E-12	8.769E-10			
06	TOTAL HPCDD	12	83.33	1.2E-09	6.5E-09			
06	TOTAL HPCDF	12	83.33	2.2E-09	0.00000005			
06	TOTAL HXCDD	12	16.67	1.1E-09	1.1E-09			
06	TOTAL HXCDF	12	25	1.2E-09	3.6E-09			
06	TOTAL PECDD	12	25	2.5E-10	4.5E-10			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Acetone	14	7.14	0.00141	0.00141	64	2.20313E-05	
06	Aluminum	13	30.77	0.00332	0.00609			
06	Antimony	13	15.38	0.000183	0.000216			
06	Arsenic	13	100	0.00211	0.0058			
06	Barium	13	100	0.00525	0.0183			
06	Beryllium	13	23.08	0.0000307	0.00006			
06	Bromodichloromethane	14	35.71	0.000317	0.000422			
06	Bromoform	14	92.86	0.000977	0.00553			
06	Cadmium (Water)	13	69.23	0.0000416	0.000338			
06	Chloride	12	100	9.91	75.2			
06	Chlorine (as Cl2)	15	100	0.02	3.5			
06	Chromium	13	84.62	0.000285	0.0014			
06	Cobalt	13	100	0.0000571	0.000161			
06	Copper	13	100	0.0483	0.541			
06	Dibromochloromethane	14	85.71	0.000169	0.000995			
06	Dissolved Oxygen	15	100	3.46	9.35			
06	Fecal Steptococcus	15	100					
06	Fluoride	12	83.33	0.263	1.39			
06	Heterotrophic plate count	15	100		4510			
06	Iron	13	61.54	0.00719	0.148			
06	Lead	13	100	0.00123	0.00702			
06	Manganese (nonfood)	13	100	0.000151	0.04			
06	Mercury	13	69.23	0.000015	0.000038	0.00063	0.06031746	
06	Nickel	13	100	0.000865	0.0156			
06	Nitrate (measured as NO3-)	12	100	3.02	101			
06	Oxidation Reduction Potential	15	100	275	725			
06	Ph	15	100	6.7	7.29			
06	Salinity	15	100		0.1			
06	Selenium	13	76.92	0.000219	0.00102			
06	Specific Conductance	15	100	0.095	6.09			
06	Sulfate	12	100	7.98	108			
06	Temperature	15	100	19.5	29.8			
06	Tetrachloroethene	14	7.14	0.000155	0.000155	0.57	0.00027193	
06	Thallium	13	15.38	0.00004	0.0025			
06	Tin	13	30.77	0.000111	0.00021			
06	Total Coliforms (including fecal coliform and E. C	15	6.67	1	1			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	12	83.33	5.7E-12	8.769E-10			
06	TOTAL HPCDD	12	83.33	1.2E-09	6.5E-09			
06	TOTAL HPCDF	12	83.33	2.2E-09	0.00000005			
06	TOTAL HXCDD	12	16.67	1.1E-09	1.1E-09			
06	TOTAL HXCDF	12	25	1.2E-09	3.6E-09			
06	TOTAL PECDD	12	25	2.5E-10	4.5E-10			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Acetone	14	7.14	0.00141	0.00141			
06	Aluminum	13	30.77	0.00332	0.00609			
06	Antimony	13	15.38	0.000183	0.000216	0.006	0.036	
06	Arsenic	13	100	0.00211	0.0058	0.01	0.58	
06	Barium	13	100	0.00525	0.0183	2	0.00915	
06	Beryllium	13	23.08	0.0000307	0.00006	0.004	0.015	
06	Bromodichloromethane	14	35.71	0.000317	0.000422			
06	Bromoform	14	92.86	0.000977	0.00553			
06	Cadmium (Water)	13	69.23	0.0000416	0.000338	0.005	0.0676	
06	Chloride	12	100	9.91	75.2			
06	Chlorine (as Cl2)	15	100	0.02	3.5	4.01	0.872817955	
06	Chromium	13	84.62	0.000285	0.0014	0.1	0.014	
06	Cobalt	13	100	0.0000571	0.000161			
06	Copper	13	100	0.0483	0.541			
06	Dibromochloromethane	14	85.71	0.000169	0.000995			
06	Dissolved Oxygen	15	100	3.46	9.35			
06	Fecal Steptococcus	15	100					
06	Fluoride	12	83.33	0.263	1.39	4	0.3475	
06	Heterotrophic plate count	15	100		4510			
06	Iron	13	61.54	0.00719	0.148			
06	Lead	13	100	0.00123	0.00702			
06	Manganese (nonfood)	13	100	0.000151	0.04			
06	Mercury	13	69.23	0.000015	0.000038	0.002	0.019	
06	Nickel	13	100	0.000865	0.0156			
06	Nitrate (measured as NO3-)	12	100	3.02	101	44.3	2.279909707	8.333333333
06	Oxidation Reduction Potential	15	100	275	725			
06	Ph	15	100	6.7	7.29			
06	Salinity	15	100		0.1			
06	Selenium	13	76.92	0.000219	0.00102	0.05	0.0204	
06	Specific Conductance	15	100	0.095	6.09			
06	Sulfate	12	100	7.98	108			
06	Temperature	15	100	19.5	29.8			
06	Tetrachloroethene	14	7.14	0.000155	0.000155	0.005	0.031	
06	Thallium	13	15.38	0.00004	0.0025	0.002	1.25	7.692307692
06	Tin	13	30.77	0.000111	0.00021			
06	Total Coliforms (including fecal coliform and E. C	15	6.67	1	1		1.1	6.666666667
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	12	83.33	5.7E-12	8.769E-10	0.00000003	0.02923	
06	TOTAL HPCDD	12	83.33	1.2E-09	6.5E-09			
06	TOTAL HPCDF	12	83.33	2.2E-09	0.00000005			
06	TOTAL HXCDD	12	16.67	1.1E-09	1.1E-09			
06	TOTAL HXCDF	12	25	1.2E-09	3.6E-09			
06	TOTAL PECDD	12	25	2.5E-10	4.5E-10			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL PECDF	12	75	3.4E-10	1.7E-09			
06	TOTAL TCDD	12	33.33	6.8E-10	1.5E-09			
06	TOTAL TCDF	12	58.33	3.9E-10	1.3E-09			
06	Total Trihalomethanes	14	92.86	0.00106	0.006439			
06	Turbidity	4	100	2	44.5			
06	Uranium	12	100	0.00113	0.014			
06	Vanadium	13	76.92	0.00155	0.00978			
06	Zinc	13	100	0.064	4.26			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL PECDF	12	75	3.4E-10	1.7E-09			
06	TOTAL TCDD	12	33.33	6.8E-10	1.5E-09			
06	TOTAL TCDF	12	58.33	3.9E-10	1.3E-09			
06	Total Trihalomethanes	14	92.86	0.00106	0.006439			
06	Turbidity	4	100	2	44.5			
06	Uranium	12	100	0.00113	0.014	0.11	0.127272727	
06	Vanadium	13	76.92	0.00155	0.00978	0.26	0.037615385	
06	Zinc	13	100	0.064	4.26	11	0.387272727	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL PECDF	12	75	3.4E-10	1.7E-09			
06	TOTAL TCDD	12	33.33	6.8E-10	1.5E-09			
06	TOTAL TCDF	12	58.33	3.9E-10	1.3E-09			
06	Total Trihalomethanes	14	92.86	0.00106	0.006439			
06	Turbidity	4	100	2	44.5			
06	Uranium	12	100	0.00113	0.014			
06	Vanadium	13	76.92	0.00155	0.00978			
06	Zinc	13	100	0.064	4.26			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL PECDF	12	75	3.4E-10	1.7E-09			
06	TOTAL TCDD	12	33.33	6.8E-10	1.5E-09			
06	TOTAL TCDF	12	58.33	3.9E-10	1.3E-09			
06	Total Trihalomethanes	14	92.86	0.00106	0.006439			
06	Turbidity	4	100	2	44.5			
06	Uranium	12	100	0.00113	0.014			
06	Vanadium	13	76.92	0.00155	0.00978			
06	Zinc	13	100	0.064	4.26			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL PECDF	12	75	3.4E-10	1.7E-09			
06	TOTAL TCDD	12	33.33	6.8E-10	1.5E-09			
06	TOTAL TCDF	12	58.33	3.9E-10	1.3E-09			
06	Total Trihalomethanes	14	92.86	0.00106	0.006439	0.0807	0.079789343	
06	Turbidity	4	100	2	44.5			
06	Uranium	12	100	0.00113	0.014	0.03	0.466666667	
06	Vanadium	13	76.92	0.00155	0.00978			
06	Zinc	13	100	0.064	4.26			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,2-dichloropropane	7	14.29	0.00017	0.00017	0.00039	0.435897436	
07	Aluminum	6	33.33	0.0023	0.0118			
07	Antimony	6	50	0.00016	0.000821			
07	Arsenic	6	100	0.00215	0.007	0.000045	155.5555556	100
07	Barium	6	100	0.0019	0.018			
07	Beryllium	6	50	0.00003	0.00026			
07	Bromodichloromethane	7	28.57	0.00054	0.000603	0.0011	0.548181818	
07	Bromoform	7	71.43	0.000854	0.00384	0.0085	0.451764706	
07	Cadmium (Water)	6	66.67	0.00005	0.000475			
07	Chloride	5	100	9.14	90.7			
07	Chlorine (as Cl2)	9	100	0.01	0.14			
07	Chloroform	7	14.29	0.000142	0.000142	0.00019	0.747368421	
07	Chromium	6	83.33	0.000473	0.0111			
07	Cobalt	6	100	0.0000463	0.000285			
07	Copper	6	100	0.0358	0.555			
07	Dibromochloromethane	7	57.14	0.000424	0.0016	0.0008	2	28.57142857
07	Dissolved Oxygen	9	100	5.12	8.68			
07	Fecal Steptococcus	8	100					
07	Fluoride	5	60	0.397	1.27			
07	Heterotrophic plate count	8	100	15	210			
07	Iron	6	83.33	0.0095	0.454			
07	Lead	6	100	0.00087	0.0125			
07	Manganese (nonfood)	6	100	0.000133	0.0086			
07	Mercury	6	83.33	0.000017	0.000059			
07	Nickel	6	100	0.0019	0.0297			
07	Nitrate (measured as NO3-)	5	100	3.03	128			
07	Oxidation Reduction Potential	9	100	274	616			
07	Ph	9	100	6.64	7.48			
07	Salinity	9	100		0.1			
07	Selenium	6	50	0.00023	0.0008			
07	Silver	6	16.67	0.00015	0.00015			
07	Specific Conductance	9	100	0.09	6.42			
07	Sulfate	5	100	6.43	108			
07	Temperature	9	100	13.24	26.58			
07	Tetrachloroethene	7	42.86	0.000247	0.00283	0.00011	25.72727273	42.85714286
07	Thallium	6	16.67	0.00012	0.00012			
07	Tin	6	33.33	0.0002	0.0004			
07	Total Coliforms (including fecal coliform and E. C	8	25	1	11.1			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	33.33	2.709E-10	4.68E-10	5.2E-10	0.9	
07	TOTAL HPCDD	6	66.67	2.3E-09	4.8E-09			
07	TOTAL HPCDF	6	66.67	1.6E-09	0.000000015			
07	TOTAL HXCDD	6	50	7.2E-10	1.9E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,2-dichloropropane	7	14.29	0.00017	0.00017	0.0083	0.020481928	
07	Aluminum	6	33.33	0.0023	0.0118	37	0.000318919	
07	Antimony	6	50	0.00016	0.000821	0.015	0.054733333	
07	Arsenic	6	100	0.00215	0.007	0.011	0.636363636	
07	Barium	6	100	0.0019	0.018	7.3	0.002465753	
07	Beryllium	6	50	0.00003	0.00026	0.073	0.003561644	
07	Bromodichloromethane	7	28.57	0.00054	0.000603	0.73	0.000826027	
07	Bromoform	7	71.43	0.000854	0.00384	0.73	0.005260274	
07	Cadmium (Water)	6	66.67	0.00005	0.000475	0.018	0.026388889	
07	Chloride	5	100	9.14	90.7			
07	Chlorine (as Cl2)	9	100	0.01	0.14			
07	Chloroform	7	14.29	0.000142	0.000142	0.13	0.001092308	
07	Chromium	6	83.33	0.000473	0.0111			
07	Cobalt	6	100	0.0000463	0.000285			
07	Copper	6	100	0.0358	0.555	1.5	0.37	
07	Dibromochloromethane	7	57.14	0.000424	0.0016	0.73	0.002191781	
07	Dissolved Oxygen	9	100	5.12	8.68			
07	Fecal Steptococcus	8	100					
07	Fluoride	5	60	0.397	1.27			
07	Heterotrophic plate count	8	100	15	210			
07	Iron	6	83.33	0.0095	0.454	26	0.017461538	
07	Lead	6	100	0.00087	0.0125	0.02	0.625	
07	Manganese (nonfood)	6	100	0.000133	0.0086	0.88	0.009772727	
07	Mercury	6	83.33	0.000017	0.000059	0.00063	0.093650794	
07	Nickel	6	100	0.0019	0.0297	0.73	0.040684932	
07	Nitrate (measured as NO3-)	5	100	3.03	128	255.2	0.501567398	
07	Oxidation Reduction Potential	9	100	274	616			
07	Ph	9	100	6.64	7.48			
07	Salinity	9	100		0.1			
07	Selenium	6	50	0.00023	0.0008	0.18	0.004444444	
07	Silver	6	16.67	0.00015	0.00015	0.18	0.000833333	
07	Specific Conductance	9	100	0.09	6.42			
07	Sulfate	5	100	6.43	108			
07	Temperature	9	100	13.24	26.58			
07	Tetrachloroethene	7	42.86	0.000247	0.00283	0.22	0.012863636	
07	Thallium	6	16.67	0.00012	0.00012	0.0024	0.05	
07	Tin	6	33.33	0.0002	0.0004	22	1.81818E-05	
07	Total Coliforms (including fecal coliform and E. C	8	25	1	11.1			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	33.33	2.709E-10	4.68E-10	0.000000037	0.012648649	
07	TOTAL HPCDD	6	66.67	2.3E-09	4.8E-09			
07	TOTAL HPCDF	6	66.67	1.6E-09	0.000000015			
07	TOTAL HXCDD	6	50	7.2E-10	1.9E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,2-dichloropropane	7	14.29	0.00017	0.00017	0.00049	0.346938776	
07	Aluminum	6	33.33	0.0023	0.0118			
07	Antimony	6	50	0.00016	0.000821			
07	Arsenic	6	100	0.00215	0.007			
07	Barium	6	100	0.0019	0.018			
07	Beryllium	6	50	0.00003	0.00026			
07	Bromodichloromethane	7	28.57	0.00054	0.000603			
07	Bromoform	7	71.43	0.000854	0.00384			
07	Cadmium (Water)	6	66.67	0.00005	0.000475			
07	Chloride	5	100	9.14	90.7			
07	Chlorine (as Cl2)	9	100	0.01	0.14			
07	Chloroform	7	14.29	0.000142	0.000142	0.00021	0.676190476	
07	Chromium	6	83.33	0.000473	0.0111			
07	Cobalt	6	100	0.0000463	0.000285			
07	Copper	6	100	0.0358	0.555			
07	Dibromochloromethane	7	57.14	0.000424	0.0016			
07	Dissolved Oxygen	9	100	5.12	8.68			
07	Fecal Steptococcus	8	100					
07	Fluoride	5	60	0.397	1.27			
07	Heterotrophic plate count	8	100	15	210			
07	Iron	6	83.33	0.0095	0.454			
07	Lead	6	100	0.00087	0.0125			
07	Manganese (nonfood)	6	100	0.000133	0.0086			
07	Mercury	6	83.33	0.000017	0.000059			
07	Nickel	6	100	0.0019	0.0297			
07	Nitrate (measured as NO3-)	5	100	3.03	128			
07	Oxidation Reduction Potential	9	100	274	616			
07	Ph	9	100	6.64	7.48			
07	Salinity	9	100		0.1			
07	Selenium	6	50	0.00023	0.0008			
07	Silver	6	16.67	0.00015	0.00015			
07	Specific Conductance	9	100	0.09	6.42			
07	Sulfate	5	100	6.43	108			
07	Temperature	9	100	13.24	26.58			
07	Tetrachloroethene	7	42.86	0.000247	0.00283	0.00082	3.451219512	28.57142857
07	Thallium	6	16.67	0.00012	0.00012			
07	Tin	6	33.33	0.0002	0.0004			
07	Total Coliforms (including fecal coliform and E. C	8	25	1	11.1			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	33.33	2.709E-10	4.68E-10			
07	TOTAL HPCDD	6	66.67	2.3E-09	4.8E-09			
07	TOTAL HPCDF	6	66.67	1.6E-09	0.000000015			
07	TOTAL HXCDD	6	50	7.2E-10	1.9E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,2-dichloropropane	7	14.29	0.00017	0.00017	0.0083	0.020481928	
07	Aluminum	6	33.33	0.0023	0.0118			
07	Antimony	6	50	0.00016	0.000821			
07	Arsenic	6	100	0.00215	0.007			
07	Barium	6	100	0.0019	0.018			
07	Beryllium	6	50	0.00003	0.00026			
07	Bromodichloromethane	7	28.57	0.00054	0.000603			
07	Bromoform	7	71.43	0.000854	0.00384			
07	Cadmium (Water)	6	66.67	0.00005	0.000475			
07	Chloride	5	100	9.14	90.7			
07	Chlorine (as Cl2)	9	100	0.01	0.14			
07	Chloroform	7	14.29	0.000142	0.000142	0.2	0.00071	
07	Chromium	6	83.33	0.000473	0.0111			
07	Cobalt	6	100	0.0000463	0.000285			
07	Copper	6	100	0.0358	0.555			
07	Dibromochloromethane	7	57.14	0.000424	0.0016			
07	Dissolved Oxygen	9	100	5.12	8.68			
07	Fecal Steptococcus	8	100					
07	Fluoride	5	60	0.397	1.27			
07	Heterotrophic plate count	8	100	15	210			
07	Iron	6	83.33	0.0095	0.454			
07	Lead	6	100	0.00087	0.0125			
07	Manganese (nonfood)	6	100	0.000133	0.0086			
07	Mercury	6	83.33	0.000017	0.000059	0.00063	0.093650794	
07	Nickel	6	100	0.0019	0.0297			
07	Nitrate (measured as NO3-)	5	100	3.03	128			
07	Oxidation Reduction Potential	9	100	274	616			
07	Ph	9	100	6.64	7.48			
07	Salinity	9	100		0.1			
07	Selenium	6	50	0.00023	0.0008			
07	Silver	6	16.67	0.00015	0.00015			
07	Specific Conductance	9	100	0.09	6.42			
07	Sulfate	5	100	6.43	108			
07	Temperature	9	100	13.24	26.58			
07	Tetrachloroethene	7	42.86	0.000247	0.00283	0.57	0.004964912	
07	Thallium	6	16.67	0.00012	0.00012			
07	Tin	6	33.33	0.0002	0.0004			
07	Total Coliforms (including fecal coliform and E. C	8	25	1	11.1			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	33.33	2.709E-10	4.68E-10			
07	TOTAL HPCDD	6	66.67	2.3E-09	4.8E-09			
07	TOTAL HPCDF	6	66.67	1.6E-09	0.000000015			
07	TOTAL HXCDD	6	50	7.2E-10	1.9E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,2-dichloropropane	7	14.29	0.00017	0.00017	0.005	0.034	
07	Aluminum	6	33.33	0.0023	0.0118			
07	Antimony	6	50	0.00016	0.000821	0.006	0.136833333	
07	Arsenic	6	100	0.00215	0.007	0.01	0.7	
07	Barium	6	100	0.0019	0.018	2	0.009	
07	Beryllium	6	50	0.00003	0.00026	0.004	0.065	
07	Bromodichloromethane	7	28.57	0.00054	0.000603			
07	Bromoform	7	71.43	0.000854	0.00384			
07	Cadmium (Water)	6	66.67	0.00005	0.000475	0.005	0.095	
07	Chloride	5	100	9.14	90.7			
07	Chlorine (as Cl2)	9	100	0.01	0.14	4.01	0.034912718	
07	Chloroform	7	14.29	0.000142	0.000142			
07	Chromium	6	83.33	0.000473	0.0111	0.1	0.111	
07	Cobalt	6	100	0.0000463	0.000285			
07	Copper	6	100	0.0358	0.555			
07	Dibromochloromethane	7	57.14	0.000424	0.0016			
07	Dissolved Oxygen	9	100	5.12	8.68			
07	Fecal Steptococcus	8	100					
07	Fluoride	5	60	0.397	1.27	4	0.3175	
07	Heterotrophic plate count	8	100	15	210			
07	Iron	6	83.33	0.0095	0.454			
07	Lead	6	100	0.00087	0.0125			
07	Manganese (nonfood)	6	100	0.000133	0.0086			
07	Mercury	6	83.33	0.000017	0.000059	0.002	0.0295	
07	Nickel	6	100	0.0019	0.0297			
07	Nitrate (measured as NO3-)	5	100	3.03	128	44.3	2.889390519	20
07	Oxidation Reduction Potential	9	100	274	616			
07	Ph	9	100	6.64	7.48			
07	Salinity	9	100		0.1			
07	Selenium	6	50	0.00023	0.0008	0.05	0.016	
07	Silver	6	16.67	0.00015	0.00015			
07	Specific Conductance	9	100	0.09	6.42			
07	Sulfate	5	100	6.43	108			
07	Temperature	9	100	13.24	26.58			
07	Tetrachloroethene	7	42.86	0.000247	0.00283	0.005	0.566	
07	Thallium	6	16.67	0.00012	0.00012	0.002	0.06	
07	Tin	6	33.33	0.0002	0.0004			
07	Total Coliforms (including fecal coliform and E. C	8	25	1	11.1		1.1	25
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	33.33	2.709E-10	4.68E-10	0.00000003	0.0156	
07	TOTAL HPCDD	6	66.67	2.3E-09	4.8E-09			
07	TOTAL HPCDF	6	66.67	1.6E-09	0.000000015			
07	TOTAL HXCDD	6	50	7.2E-10	1.9E-09			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL HXCDF	6	50	1.3E-09	4.2E-09			
07	TOTAL PECDD	6	66.67	1.7E-10	2.9E-09			
07	TOTAL PECDF	6	66.67	6.6E-10	1.2E-09			
07	TOTAL TCDD	6	33.33	6.4E-10	9.7E-10			
07	TOTAL TCDF	6	33.33	4E-10	1.1E-09			
07	Total Trihalomethanes	7	71.43	0.000854	0.00542			
07	Turbidity	1	100	1	1			
07	Uranium	5	100	0.00102	0.0136			
07	Vanadium	6	66.67	0.00121	0.0104			
07	Zinc	6	100	0.043	8.85			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL HXCDF	6	50	1.3E-09	4.2E-09			
07	TOTAL PECDD	6	66.67	1.7E-10	2.9E-09			
07	TOTAL PECDF	6	66.67	6.6E-10	1.2E-09			
07	TOTAL TCDD	6	33.33	6.4E-10	9.7E-10			
07	TOTAL TCDF	6	33.33	4E-10	1.1E-09			
07	Total Trihalomethanes	7	71.43	0.000854	0.00542			
07	Turbidity	1	100	1	1			
07	Uranium	5	100	0.00102	0.0136	0.11	0.123636364	
07	Vanadium	6	66.67	0.00121	0.0104	0.26	0.04	
07	Zinc	6	100	0.043	8.85	11	0.804545455	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL HXCDF	6	50	1.3E-09	4.2E-09			
07	TOTAL PECDD	6	66.67	1.7E-10	2.9E-09			
07	TOTAL PECDF	6	66.67	6.6E-10	1.2E-09			
07	TOTAL TCDD	6	33.33	6.4E-10	9.7E-10			
07	TOTAL TCDF	6	33.33	4E-10	1.1E-09			
07	Total Trihalomethanes	7	71.43	0.000854	0.00542			
07	Turbidity	1	100	1	1			
07	Uranium	5	100	0.00102	0.0136			
07	Vanadium	6	66.67	0.00121	0.0104			
07	Zinc	6	100	0.043	8.85			

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Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL HXCDF	6	50	1.3E-09	4.2E-09			
07	TOTAL PECDD	6	66.67	1.7E-10	2.9E-09			
07	TOTAL PECDF	6	66.67	6.6E-10	1.2E-09			
07	TOTAL TCDD	6	33.33	6.4E-10	9.7E-10			
07	TOTAL TCDF	6	33.33	4E-10	1.1E-09			
07	Total Trihalomethanes	7	71.43	0.000854	0.00542			
07	Turbidity	1	100	1	1			
07	Uranium	5	100	0.00102	0.0136			
07	Vanadium	6	66.67	0.00121	0.0104			
07	Zinc	6	100	0.043	8.85			

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Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL HXCDF	6	50	1.3E-09	4.2E-09			
07	TOTAL PECDD	6	66.67	1.7E-10	2.9E-09			
07	TOTAL PECDF	6	66.67	6.6E-10	1.2E-09			
07	TOTAL TCDD	6	33.33	6.4E-10	9.7E-10			
07	TOTAL TCDF	6	33.33	4E-10	1.1E-09			
07	Total Trihalomethanes	7	71.43	0.000854	0.00542	0.0807	0.06716233	
07	Turbidity	1	100	1	1			
07	Uranium	5	100	0.00102	0.0136	0.03	0.453333333	
07	Vanadium	6	66.67	0.00121	0.0104			
07	Zinc	6	100	0.043	8.85			

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Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Aluminum	14	28.57	0.00223	0.00503			
08	Antimony	14	35.71	0.000169	0.000306			
08	Arsenic	14	100	0.00301	0.0116	0.000045	257.7777778	100
08	Barium	14	100	0.00075	0.0177			
08	Beryllium	14	28.57	0.0000407	0.00031			
08	Bromodichloromethane	14	35.71	0.00012	0.000471	0.0011	0.428181818	
08	Bromoform	14	71.43	0.000121	0.00539	0.0085	0.634117647	
08	Cadmium (Water)	14	28.57	0.0000472	0.000212			
08	Chloride	14	100	7.83	80.9			
08	Chlorine (as Cl2)	18	100	0.02	0.3			
08	Chloroform	14	7.14	0.000138	0.000138	0.00019	0.726315789	
08	Chromium	14	85.71	0.000428	0.0011			
08	Cobalt	14	85.71	0.000034	0.000409			
08	Copper	14	100	0.041	1.87			
08	Dibromochloromethane	14	57.14	0.000467	0.0014	0.0008	1.75	28.57142857
08	Dissolved Oxygen	18	100	2.41	8.93			
08	Fecal Coliform	17	11.76	1	47.8			
08	Fecal Steptococcus	17	100		17			
08	Fluoride	14	85.71	0.292	1.34			
08	Heterotrophic plate count	17	100		2860			
08	Iron	14	78.57	0.00492	3.7			
08	Lead	14	100	0.000588	0.0989			
08	Manganese (nonfood)	14	100	0.00014	0.0268			
08	Mercury	14	50	0.000016	0.000035			
08	Nickel	14	100	0.000375	0.246			
08	Nitrate (measured as NO3-)	14	100	2.72	59.6			
08	Oxidation Reduction Potential	18	100	41.3	608			
08	Ph	18	100	6.61	7.52			
08	Salinity	18	100		6			
08	Selenium	14	78.57	0.0002	0.000573			
08	Specific Conductance	18	100	0.104	94.7			
08	Sulfate	14	100	5.64	72.4			
08	Temperature	18	100	20.8	34.63			
08	Tetrachloroethene	14	14.29	0.000395	0.0031	0.00011	28.18181818	14.28571429
08	Tin	14	21.43	0.000153	0.000302			
08	Total Coliforms (including fecal coliform and E. C	17	29.41	8.7	200.5			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	14	85.71	5.93E-11	7.026E-10	5.2E-10	1.351153846	7.142857143
08	TOTAL HPCDD	14	92.86	0.000000001	3.6E-09			
08	TOTAL HPCDF	14	92.86	1.8E-09	0.00000001			
08	TOTAL HXCDD	14	57.14	6.2E-10	1.5E-09			
08	TOTAL HXCDF	14	57.14	7.8E-10	5.8E-09			
08	TOTAL PECDD	14	35.71	2.3E-10	5E-10			

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Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Aluminum	14	28.57	0.00223	0.00503			
08	Antimony	14	35.71	0.000169	0.000306	0.015	0.000135946	
08	Arsenic	14	100	0.00301	0.0116	0.011	0.0204	7.142857143
08	Barium	14	100	0.00075	0.0177	7.3	0.002424658	
08	Beryllium	14	28.57	0.0000407	0.00031	0.073	0.004246575	
08	Bromodichloromethane	14	35.71	0.00012	0.000471	0.73	0.000645205	
08	Bromoform	14	71.43	0.000121	0.00539	0.73	0.007383562	
08	Cadmium (Water)	14	28.57	0.0000472	0.000212	0.018	0.011777778	
08	Chloride	14	100	7.83	80.9			
08	Chlorine (as Cl2)	18	100	0.02	0.3			
08	Chloroform	14	7.14	0.000138	0.000138	0.13	0.001061538	
08	Chromium	14	85.71	0.000428	0.0011			
08	Cobalt	14	85.71	0.000034	0.000409			
08	Copper	14	100	0.041	1.87	1.5	1.246666667	7.142857143
08	Dibromochloromethane	14	57.14	0.000467	0.0014	0.73	0.001917808	
08	Dissolved Oxygen	18	100	2.41	8.93			
08	Fecal Coliform	17	11.76	1	47.8			
08	Fecal Steptococcus	17	100		17			
08	Fluoride	14	85.71	0.292	1.34			
08	Heterotrophic plate count	17	100		2860			
08	Iron	14	78.57	0.00492	3.7	26	0.142307692	
08	Lead	14	100	0.000588	0.0989	0.02	4.945	7.142857143
08	Manganese (nonfood)	14	100	0.00014	0.0268	0.88	0.030454545	
08	Mercury	14	50	0.000016	0.000035	0.00063	0.055555556	
08	Nickel	14	100	0.000375	0.246	0.73	0.336986301	
08	Nitrate (measured as NO3-)	14	100	2.72	59.6	255.2	0.23354232	
08	Oxidation Reduction Potential	18	100	41.3	608			
08	Ph	18	100	6.61	7.52			
08	Salinity	18	100		6			
08	Selenium	14	78.57	0.0002	0.000573	0.18	0.003183333	
08	Specific Conductance	18	100	0.104	94.7			
08	Sulfate	14	100	5.64	72.4			
08	Temperature	18	100	20.8	34.63			
08	Tetrachloroethene	14	14.29	0.000395	0.0031	0.22	0.014090909	
08	Tin	14	21.43	0.000153	0.000302	22	1.37273E-05	
08	Total Coliforms (including fecal coliform and E. C	17	29.41	8.7	200.5			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	14	85.71	5.93E-11	7.026E-10	0.000000037	0.018989189	
08	TOTAL HPCDD	14	92.86	0.000000001	3.6E-09			
08	TOTAL HPCDF	14	92.86	1.8E-09	0.00000001			
08	TOTAL HXCDD	14	57.14	6.2E-10	1.5E-09			
08	TOTAL HXCDF	14	57.14	7.8E-10	5.8E-09			
08	TOTAL PECDD	14	35.71	2.3E-10	5E-10			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Aluminum	14	28.57	0.00223	0.00503			
08	Antimony	14	35.71	0.000169	0.000306			
08	Arsenic	14	100	0.00301	0.0116			
08	Barium	14	100	0.00075	0.0177			
08	Beryllium	14	28.57	0.0000407	0.00031			
08	Bromodichloromethane	14	35.71	0.00012	0.000471			
08	Bromoform	14	71.43	0.000121	0.00539			
08	Cadmium (Water)	14	28.57	0.0000472	0.000212			
08	Chloride	14	100	7.83	80.9			
08	Chlorine (as Cl2)	18	100	0.02	0.3			
08	Chloroform	14	7.14	0.000138	0.000138	0.00021	0.657142857	
08	Chromium	14	85.71	0.000428	0.0011			
08	Cobalt	14	85.71	0.000034	0.000409			
08	Copper	14	100	0.041	1.87			
08	Dibromochloromethane	14	57.14	0.000467	0.0014			
08	Dissolved Oxygen	18	100	2.41	8.93			
08	Fecal Coliform	17	11.76	1	47.8			
08	Fecal Steptococcus	17	100		17			
08	Fluoride	14	85.71	0.292	1.34			
08	Heterotrophic plate count	17	100		2860			
08	Iron	14	78.57	0.00492	3.7			
08	Lead	14	100	0.000588	0.0989			
08	Manganese (nonfood)	14	100	0.00014	0.0268			
08	Mercury	14	50	0.000016	0.000035			
08	Nickel	14	100	0.000375	0.246			
08	Nitrate (measured as NO3-)	14	100	2.72	59.6			
08	Oxidation Reduction Potential	18	100	41.3	608			
08	Ph	18	100	6.61	7.52			
08	Salinity	18	100		6			
08	Selenium	14	78.57	0.0002	0.000573			
08	Specific Conductance	18	100	0.104	94.7			
08	Sulfate	14	100	5.64	72.4			
08	Temperature	18	100	20.8	34.63			
08	Tetrachloroethene	14	14.29	0.000395	0.0031	0.00082	3.780487805	7.142857143
08	Tin	14	21.43	0.000153	0.000302			
08	Total Coliforms (including fecal coliform and E. C	17	29.41	8.7	200.5			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	14	85.71	5.93E-11	7.026E-10			
08	TOTAL HPCDD	14	92.86	0.000000001	3.6E-09			
08	TOTAL HPCDF	14	92.86	1.8E-09	0.00000001			
08	TOTAL HXCDD	14	57.14	6.2E-10	1.5E-09			
08	TOTAL HXCDF	14	57.14	7.8E-10	5.8E-09			
08	TOTAL PECDD	14	35.71	2.3E-10	5E-10			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Aluminum	14	28.57	0.00223	0.00503			
08	Antimony	14	35.71	0.000169	0.000306			
08	Arsenic	14	100	0.00301	0.0116			
08	Barium	14	100	0.00075	0.0177			
08	Beryllium	14	28.57	0.000407	0.00031			
08	Bromodichloromethane	14	35.71	0.00012	0.000471			
08	Bromoform	14	71.43	0.000121	0.00539			
08	Cadmium (Water)	14	28.57	0.000472	0.000212			
08	Chloride	14	100	7.83	80.9			
08	Chlorine (as Cl2)	18	100	0.02	0.3			
08	Chloroform	14	7.14	0.000138	0.000138	0.2	0.00069	
08	Chromium	14	85.71	0.000428	0.0011			
08	Cobalt	14	85.71	0.000034	0.000409			
08	Copper	14	100	0.041	1.87			
08	Dibromochloromethane	14	57.14	0.000467	0.0014			
08	Dissolved Oxygen	18	100	2.41	8.93			
08	Fecal Coliform	17	11.76	1	47.8			
08	Fecal Steptococcus	17	100		17			
08	Fluoride	14	85.71	0.292	1.34			
08	Heterotrophic plate count	17	100		2860			
08	Iron	14	78.57	0.00492	3.7			
08	Lead	14	100	0.000588	0.0989			
08	Manganese (nonfood)	14	100	0.00014	0.0268			
08	Mercury	14	50	0.000016	0.000035	0.00063	0.055555556	
08	Nickel	14	100	0.000375	0.246			
08	Nitrate (measured as NO3-)	14	100	2.72	59.6			
08	Oxidation Reduction Potential	18	100	41.3	608			
08	Ph	18	100	6.61	7.52			
08	Salinity	18	100		6			
08	Selenium	14	78.57	0.0002	0.000573			
08	Specific Conductance	18	100	0.104	94.7			
08	Sulfate	14	100	5.64	72.4			
08	Temperature	18	100	20.8	34.63			
08	Tetrachloroethene	14	14.29	0.000395	0.0031	0.57	0.005438596	
08	Tin	14	21.43	0.000153	0.000302			
08	Total Coliforms (including fecal coliform and E. C	17	29.41	8.7	200.5			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	14	85.71	5.93E-11	7.026E-10			
08	TOTAL HPCDD	14	92.86	0.000000001	3.6E-09			
08	TOTAL HPCDF	14	92.86	1.8E-09	0.00000001			
08	TOTAL HXCDD	14	57.14	6.2E-10	1.5E-09			
08	TOTAL HXCDF	14	57.14	7.8E-10	5.8E-09			
08	TOTAL PECDD	14	35.71	2.3E-10	5E-10			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Aluminum	14	28.57	0.00223	0.00503			
08	Antimony	14	35.71	0.000169	0.000306	0.006	0.051	
08	Arsenic	14	100	0.00301	0.0116	0.01	1.16	7.142857143
08	Barium	14	100	0.00075	0.0177	2	0.00885	
08	Beryllium	14	28.57	0.0000407	0.00031	0.004	0.0775	
08	Bromodichloromethane	14	35.71	0.00012	0.000471			
08	Bromoform	14	71.43	0.000121	0.00539			
08	Cadmium (Water)	14	28.57	0.0000472	0.000212	0.005	0.0424	
08	Chloride	14	100	7.83	80.9			
08	Chlorine (as Cl2)	18	100	0.02	0.3	4.01	0.074812968	
08	Chloroform	14	7.14	0.000138	0.000138			
08	Chromium	14	85.71	0.000428	0.0011	0.1	0.011	
08	Cobalt	14	85.71	0.000034	0.000409			
08	Copper	14	100	0.041	1.87			
08	Dibromochloromethane	14	57.14	0.000467	0.0014			
08	Dissolved Oxygen	18	100	2.41	8.93			
08	Fecal Coliform	17	11.76	1	47.8		1.1	11.76470588
08	Fecal Steptococcus	17	100		17			
08	Fluoride	14	85.71	0.292	1.34	4	0.335	
08	Heterotrophic plate count	17	100		2860			
08	Iron	14	78.57	0.00492	3.7			
08	Lead	14	100	0.000588	0.0989			
08	Manganese (nonfood)	14	100	0.00014	0.0268			
08	Mercury	14	50	0.000016	0.000035	0.002	0.0175	
08	Nickel	14	100	0.000375	0.246			
08	Nitrate (measured as NO3-)	14	100	2.72	59.6	44.3	1.34537246	14.28571429
08	Oxidation Reduction Potential	18	100	41.3	608			
08	Ph	18	100	6.61	7.52			
08	Salinity	18	100		6			
08	Selenium	14	78.57	0.0002	0.000573	0.05	0.01146	
08	Specific Conductance	18	100	0.104	94.7			
08	Sulfate	14	100	5.64	72.4			
08	Temperature	18	100	20.8	34.63			
08	Tetrachloroethene	14	14.29	0.000395	0.0031	0.005	0.62	
08	Tin	14	21.43	0.000153	0.000302			
08	Total Coliforms (including fecal coliform and E. C	17	29.41	8.7	200.5		1.1	29.41176471
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	14	85.71	5.93E-11	7.026E-10	0.00000003	0.02342	
08	TOTAL HPCDD	14	92.86	0.000000001	3.6E-09			
08	TOTAL HPCDF	14	92.86	1.8E-09	0.00000001			
08	TOTAL HXCDD	14	57.14	6.2E-10	1.5E-09			
08	TOTAL HXCDF	14	57.14	7.8E-10	5.8E-09			
08	TOTAL PECDD	14	35.71	2.3E-10	5E-10			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	TOTAL PECDF	14	78.57	4.5E-10	0.000000001			
08	TOTAL TCDD	14	28.57	5.4E-10	1.1E-09			
08	TOTAL TCDF	14	71.43	3.6E-10	0.000000001			
08	Total Trihalomethanes	14	78.57	0.000121	0.00629			
08	Trichloroethene	14	7.14	0.000431	0.000431	0.0017	0.253529412	
08	Turbidity	5	100	2	74			
08	Uranium	14	100	0.000488	0.0107			
08	Vanadium	14	78.57	0.00152	0.0129			
08	Zinc	14	100	0.032	2.21			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	TOTAL PECDF	14	78.57	4.5E-10	0.000000001			
08	TOTAL TCDD	14	28.57	5.4E-10	1.1E-09			
08	TOTAL TCDF	14	71.43	3.6E-10	0.000000001			
08	Total Trihalomethanes	14	78.57	0.000121	0.00629			
08	Trichloroethene	14	7.14	0.000431	0.000431			
08	Turbidity	5	100	2	74			
08	Uranium	14	100	0.000488	0.0107	0.11	0.097272727	
08	Vanadium	14	78.57	0.00152	0.0129	0.26	0.049615385	
08	Zinc	14	100	0.032	2.21	11	0.200909091	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	TOTAL PECDF	14	78.57	4.5E-10	0.000000001			
08	TOTAL TCDD	14	28.57	5.4E-10	1.1E-09			
08	TOTAL TCDF	14	71.43	3.6E-10	0.000000001			
08	Total Trihalomethanes	14	78.57	0.000121	0.00629			
08	Trichloroethene	14	7.14	0.000431	0.000431	0.0024	0.179583333	
08	Turbidity	5	100	2	74			
08	Uranium	14	100	0.000488	0.0107			
08	Vanadium	14	78.57	0.00152	0.0129			
08	Zinc	14	100	0.032	2.21			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	TOTAL PECDF	14	78.57	4.5E-10	0.000000001			
08	TOTAL TCDD	14	28.57	5.4E-10	1.1E-09			
08	TOTAL TCDF	14	71.43	3.6E-10	0.000000001			
08	Total Trihalomethanes	14	78.57	0.000121	0.00629			
08	Trichloroethene	14	7.14	0.000431	0.000431			
08	Turbidity	5	100	2	74			
08	Uranium	14	100	0.000488	0.0107			
08	Vanadium	14	78.57	0.00152	0.0129			
08	Zinc	14	100	0.032	2.21			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	TOTAL PECDF	14	78.57	4.5E-10	0.000000001			
08	TOTAL TCDD	14	28.57	5.4E-10	1.1E-09			
08	TOTAL TCDF	14	71.43	3.6E-10	0.000000001			
08	Total Trihalomethanes	14	78.57	0.000121	0.00629	0.0807	0.077942999	
08	Trichloroethene	14	7.14	0.000431	0.000431	0.005	0.0862	
08	Turbidity	5	100	2	74			
08	Uranium	14	100	0.000488	0.0107	0.03	0.356666667	
08	Vanadium	14	78.57	0.00152	0.0129			
08	Zinc	14	100	0.032	2.21			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	Aluminum	2	50	0.00286	0.00286			
09	Arsenic	2	100	0.000756	0.00376	0.000045	83.55555556	100
09	Barium	2	100	0.00665	0.0152			
09	Beryllium	2	50	0.0000366	0.0000366			
09	Bromodichloromethane	2	50	0.000481	0.000481	0.0011	0.437272727	
09	Bromoform	2	100	0.000149	0.00124	0.0085	0.145882353	
09	Cadmium (Water)	2	50	0.0000574	0.0000574			
09	Chloride	2	100	6.2	12.4			
09	Chlorine (as Cl2)	2	100	0.08	0.16			
09	Chloroform	2	50	0.000103	0.000103	0.00019	0.542105263	
09	Chromium	2	100	0.000924	0.00123			
09	Cobalt	2	100	0.0000527	0.0000559			
09	Copper	2	100	0.146	0.404			
09	Dibromochloromethane	2	50	0.00112	0.00112	0.0008	1.4	50
09	Dissolved Oxygen	2	100	8.28	10.15			
09	Fecal Streptococcus	2	100					
09	Heterotrophic plate count	2	100		1			
09	Iron	2	50	0.0646	0.0646			
09	Lead	2	100	0.00338	0.00422			
09	Manganese (nonfood)	2	50	0.00228	0.00228			
09	Mercury	2	100	0.000016	0.000019			
09	Nickel	2	100	0.00281	0.00707			
09	Nitrate (measured as NO3-)	2	100	2.37	3.23			
09	Oxidation Reduction Potential	2	100	577	643			
09	Ph	2	100	6.8	7.52			
09	Salinity	2	100					
09	Selenium	2	50	0.000231	0.000231			
09	Specific Conductance	2	100	0.517	8.28			
09	Sulfate	2	100	2.17	8.89			
09	Temperature	2	100	19.93	24.19			
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	3.39E-10	3.39E-10	5.2E-10	0.651923077	
09	TOTAL HPCDD	2	100	5.2E-09	5.5E-09			
09	TOTAL HPCDF	2	100	4.2E-09	0.000000012			
09	TOTAL HXCDD	2	100	8.8E-10	9.1E-10			
09	TOTAL HXCDF	2	100	0.000000002	2.2E-09			
09	TOTAL PECDF	2	100	6.7E-10	1.3E-09			
09	TOTAL TCDF	2	100	5.5E-10	1.1E-09			
09	Total Trihalomethanes	2	100	0.000149	0.002944			
09	Uranium	2	100	0.000238	0.00115			
09	Vanadium	2	50	0.00179	0.00179			
09	Zinc	2	100	0.241	0.277			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	Aluminum	2	50	0.00286	0.00286	37	7.72973E-05	
09	Arsenic	2	100	0.000756	0.00376	0.011	0.341818182	
09	Barium	2	100	0.00665	0.0152	7.3	0.002082192	
09	Beryllium	2	50	0.0000366	0.0000366	0.073	0.00050137	
09	Bromodichloromethane	2	50	0.000481	0.000481	0.73	0.000658904	
09	Bromoform	2	100	0.000149	0.00124	0.73	0.00169863	
09	Cadmium (Water)	2	50	0.0000574	0.0000574	0.018	0.003188889	
09	Chloride	2	100	6.2	12.4			
09	Chlorine (as Cl2)	2	100	0.08	0.16			
09	Chloroform	2	50	0.000103	0.000103	0.13	0.000792308	
09	Chromium	2	100	0.000924	0.00123			
09	Cobalt	2	100	0.0000527	0.0000559			
09	Copper	2	100	0.146	0.404	1.5	0.269333333	
09	Dibromochloromethane	2	50	0.00112	0.00112	0.73	0.001534247	
09	Dissolved Oxygen	2	100	8.28	10.15			
09	Fecal Streptococcus	2	100					
09	Heterotrophic plate count	2	100		1			
09	Iron	2	50	0.0646	0.0646	26	0.002484615	
09	Lead	2	100	0.00338	0.00422	0.02	0.211	
09	Manganese (nonfood)	2	50	0.00228	0.00228	0.88	0.002590909	
09	Mercury	2	100	0.000016	0.000019	0.00063	0.03015873	
09	Nickel	2	100	0.00281	0.00707	0.73	0.009684932	
09	Nitrate (measured as NO3-)	2	100	2.37	3.23	255.2	0.01265674	
09	Oxidation Reduction Potential	2	100	577	643			
09	Ph	2	100	6.8	7.52			
09	Salinity	2	100					
09	Selenium	2	50	0.000231	0.000231	0.18	0.001283333	
09	Specific Conductance	2	100	0.517	8.28			
09	Sulfate	2	100	2.17	8.89			
09	Temperature	2	100	19.93	24.19			
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	3.39E-10	3.39E-10	0.000000037	0.009162162	
09	TOTAL HPCDD	2	100	5.2E-09	5.5E-09			
09	TOTAL HPCDF	2	100	4.2E-09	0.000000012			
09	TOTAL HXCDD	2	100	8.8E-10	9.1E-10			
09	TOTAL HXCDF	2	100	0.000000002	2.2E-09			
09	TOTAL PECDF	2	100	6.7E-10	1.3E-09			
09	TOTAL TCDF	2	100	5.5E-10	1.1E-09			
09	Total Trihalomethanes	2	100	0.000149	0.002944			
09	Uranium	2	100	0.000238	0.00115	0.11	0.010454545	
09	Vanadium	2	50	0.00179	0.00179	0.26	0.006884615	
09	Zinc	2	100	0.241	0.277	11	0.025181818	

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	Aluminum	2	50	0.00286	0.00286			
09	Arsenic	2	100	0.000756	0.00376			
09	Barium	2	100	0.00665	0.0152			
09	Beryllium	2	50	0.0000366	0.0000366			
09	Bromodichloromethane	2	50	0.000481	0.000481			
09	Bromoform	2	100	0.000149	0.00124			
09	Cadmium (Water)	2	50	0.0000574	0.0000574			
09	Chloride	2	100	6.2	12.4			
09	Chlorine (as Cl2)	2	100	0.08	0.16			
09	Chloroform	2	50	0.000103	0.000103	0.00021	0.49047619	
09	Chromium	2	100	0.000924	0.00123			
09	Cobalt	2	100	0.0000527	0.0000559			
09	Copper	2	100	0.146	0.404			
09	Dibromochloromethane	2	50	0.00112	0.00112			
09	Dissolved Oxygen	2	100	8.28	10.15			
09	Fecal Streptococcus	2	100					
09	Heterotrophic plate count	2	100		1			
09	Iron	2	50	0.0646	0.0646			
09	Lead	2	100	0.00338	0.00422			
09	Manganese (nonfood)	2	50	0.00228	0.00228			
09	Mercury	2	100	0.000016	0.000019			
09	Nickel	2	100	0.00281	0.00707			
09	Nitrate (measured as NO3-)	2	100	2.37	3.23			
09	Oxidation Reduction Potential	2	100	577	643			
09	Ph	2	100	6.8	7.52			
09	Salinity	2	100					
09	Selenium	2	50	0.000231	0.000231			
09	Specific Conductance	2	100	0.517	8.28			
09	Sulfate	2	100	2.17	8.89			
09	Temperature	2	100	19.93	24.19			
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	3.39E-10	3.39E-10			
09	TOTAL HPCDD	2	100	5.2E-09	5.5E-09			
09	TOTAL HPCDF	2	100	4.2E-09	0.000000012			
09	TOTAL HXCDD	2	100	8.8E-10	9.1E-10			
09	TOTAL HXCDF	2	100	0.000000002	2.2E-09			
09	TOTAL PECDF	2	100	6.7E-10	1.3E-09			
09	TOTAL TCDF	2	100	5.5E-10	1.1E-09			
09	Total Trihalomethanes	2	100	0.000149	0.002944			
09	Uranium	2	100	0.000238	0.00115			
09	Vanadium	2	50	0.00179	0.00179			
09	Zinc	2	100	0.241	0.277			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	Aluminum	2	50	0.00286	0.00286			
09	Arsenic	2	100	0.000756	0.00376			
09	Barium	2	100	0.00665	0.0152			
09	Beryllium	2	50	0.0000366	0.0000366			
09	Bromodichloromethane	2	50	0.000481	0.000481			
09	Bromoform	2	100	0.000149	0.00124			
09	Cadmium (Water)	2	50	0.0000574	0.0000574			
09	Chloride	2	100	6.2	12.4			
09	Chlorine (as Cl2)	2	100	0.08	0.16			
09	Chloroform	2	50	0.000103	0.000103	0.2	0.000515	
09	Chromium	2	100	0.000924	0.00123			
09	Cobalt	2	100	0.0000527	0.0000559			
09	Copper	2	100	0.146	0.404			
09	Dibromochloromethane	2	50	0.00112	0.00112			
09	Dissolved Oxygen	2	100	8.28	10.15			
09	Fecal Streptococcus	2	100					
09	Heterotrophic plate count	2	100		1			
09	Iron	2	50	0.0646	0.0646			
09	Lead	2	100	0.00338	0.00422			
09	Manganese (nonfood)	2	50	0.00228	0.00228			
09	Mercury	2	100	0.000016	0.000019	0.00063	0.03015873	
09	Nickel	2	100	0.00281	0.00707			
09	Nitrate (measured as NO3-)	2	100	2.37	3.23			
09	Oxidation Reduction Potential	2	100	577	643			
09	Ph	2	100	6.8	7.52			
09	Salinity	2	100					
09	Selenium	2	50	0.000231	0.000231			
09	Specific Conductance	2	100	0.517	8.28			
09	Sulfate	2	100	2.17	8.89			
09	Temperature	2	100	19.93	24.19			
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	3.39E-10	3.39E-10			
09	TOTAL HPCDD	2	100	5.2E-09	5.5E-09			
09	TOTAL HPCDF	2	100	4.2E-09	0.000000012			
09	TOTAL HXCDD	2	100	8.8E-10	9.1E-10			
09	TOTAL HXCDF	2	100	0.000000002	2.2E-09			
09	TOTAL PECDF	2	100	6.7E-10	1.3E-09			
09	TOTAL TCDF	2	100	5.5E-10	1.1E-09			
09	Total Trihalomethanes	2	100	0.000149	0.002944			
09	Uranium	2	100	0.000238	0.00115			
09	Vanadium	2	50	0.00179	0.00179			
09	Zinc	2	100	0.241	0.277			

Table B-3
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Public Water Supply) (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	Aluminum	2	50	0.00286	0.00286			
09	Arsenic	2	100	0.000756	0.00376	0.01	0.376	
09	Barium	2	100	0.00665	0.0152	2	0.0076	
09	Beryllium	2	50	0.0000366	0.0000366	0.004	0.00915	
09	Bromodichloromethane	2	50	0.000481	0.000481			
09	Bromoform	2	100	0.000149	0.00124			
09	Cadmium (Water)	2	50	0.0000574	0.0000574	0.005	0.01148	
09	Chloride	2	100	6.2	12.4			
09	Chlorine (as Cl2)	2	100	0.08	0.16	4.01	0.039900249	
09	Chloroform	2	50	0.000103	0.000103			
09	Chromium	2	100	0.000924	0.00123	0.1	0.0123	
09	Cobalt	2	100	0.0000527	0.0000559			
09	Copper	2	100	0.146	0.404			
09	Dibromochloromethane	2	50	0.00112	0.00112			
09	Dissolved Oxygen	2	100	8.28	10.15			
09	Fecal Streptococcus	2	100					
09	Heterotrophic plate count	2	100		1			
09	Iron	2	50	0.0646	0.0646			
09	Lead	2	100	0.00338	0.00422			
09	Manganese (nonfood)	2	50	0.00228	0.00228			
09	Mercury	2	100	0.000016	0.000019	0.002	0.0095	
09	Nickel	2	100	0.00281	0.00707			
09	Nitrate (measured as NO3-)	2	100	2.37	3.23	44.3	0.072911964	
09	Oxidation Reduction Potential	2	100	577	643			
09	Ph	2	100	6.8	7.52			
09	Salinity	2	100					
09	Selenium	2	50	0.000231	0.000231	0.05	0.00462	
09	Specific Conductance	2	100	0.517	8.28			
09	Sulfate	2	100	2.17	8.89			
09	Temperature	2	100	19.93	24.19			
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	3.39E-10	3.39E-10	0.00000003	0.0113	
09	TOTAL HPCDD	2	100	5.2E-09	5.5E-09			
09	TOTAL HPCDF	2	100	4.2E-09	0.000000012			
09	TOTAL HXCDD	2	100	8.8E-10	9.1E-10			
09	TOTAL HXCDF	2	100	0.000000002	2.2E-09			
09	TOTAL PECDF	2	100	6.7E-10	1.3E-09			
09	TOTAL TCDF	2	100	5.5E-10	1.1E-09			
09	Total Trihalomethanes	2	100	0.000149	0.002944	0.0807	0.036480793	
09	Uranium	2	100	0.000238	0.00115	0.03	0.038333333	
09	Vanadium	2	50	0.00179	0.00179			
09	Zinc	2	100	0.241	0.277			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Aluminum	3	33.33	0.00229	0.00229			
01	Arsenic	3	100	0.00387	0.00441	0.000045	98	100
01	Barium	3	100	0.0139	0.0153			
01	Beryllium	3	33.33	0.0000416	0.0000416			
01	Bromodichloromethane	3	100	0.000187	0.000238	0.0011	0.216363636	
01	Bromoform	3	100	0.0011	0.00532	0.0085	0.625882353	
01	Chloride	3	100	10	30.9			
01	Chlorine (as Cl2)	3	100		0.2			
01	Chloroform	3	66.67	0.000155	0.000222	0.00019	1.168421053	33.33333333
01	Chromium	3	100	0.000395	0.000962			
01	cis-1,2-dichloroethene	3	33.33	0.000243	0.000243			
01	Cobalt	3	100	0.0000544	0.0000776			
01	Copper	3	100	0.0532	0.205			
01	Dibromochloromethane	3	100	0.000388	0.00101	0.0008	1.2625	33.33333333
01	Dissolved Oxygen	3	100	7.78	10.08			
01	Fecal Steptococcus	3	100					
01	Fluoride	3	33.33	0.432	0.432			
01	Heterotrophic plate count	3	100	4	38			
01	Iron	3	33.33	0.00892	0.00892			
01	Lead	3	100	0.00099	0.00416			
01	Manganese (nonfood)	3	100	0.000406	0.00765			
01	Mercury	3	33.33	0.000016	0.000016			
01	Nickel	3	100	0.000856	0.00147			
01	Nitrate (measured as NO3-)	3	100	3.7	19.7			
01	Oxidation Reduction Potential	3	100	304	443			
01	Ph	3	100	7.32	7.74			
01	Salinity	3	100					
01	Selenium	3	100	0.000216	0.00111			
01	Specific Conductance	3	100	0.76	0.87			
01	Sulfate	3	100	10.3	34.8			
01	Temperature	3	100	23	28.9			
01	Tetrachloroethene	3	33.33	0.000222	0.000222	0.00011	2.018181818	33.33333333
01	Tin	3	33.33	0.000203	0.000203			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	5.8E-11	3.3E-10	5.2E-10	0.634615385	
01	TOTAL HPCDD	3	100	1.4E-09	2.3E-09			
01	TOTAL HPCDF	3	100	2.1E-09	3.1E-09			
01	TOTAL HXCDD	3	33.33	5.1E-10	5.1E-10			
01	TOTAL HXCDF	3	66.67	7.4E-10	9.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Aluminum	3	33.33	0.00229	0.00229	37	6.18919E-05	
01	Arsenic	3	100	0.00387	0.00441	0.011	0.400909091	
01	Barium	3	100	0.0139	0.0153	7.3	0.00209589	
01	Beryllium	3	33.33	0.0000416	0.0000416	0.073	0.000569863	
01	Bromodichloromethane	3	100	0.000187	0.000238	0.73	0.000326027	
01	Bromoform	3	100	0.0011	0.00532	0.73	0.007287671	
01	Chloride	3	100	10	30.9			
01	Chlorine (as Cl2)	3	100		0.02			
01	Chloroform	3	66.67	0.000155	0.000222	0.13	0.001707692	
01	Chromium	3	100	0.000395	0.000962			
01	cis-1,2-dichloroethene	3	33.33	0.000243	0.000243	0.37	0.000656757	
01	Cobalt	3	100	0.0000544	0.0000776			
01	Copper	3	100	0.0532	0.205	1.5	0.136666667	
01	Dibromochloromethane	3	100	0.000388	0.00101	0.73	0.001383562	
01	Dissolved Oxygen	3	100	7.78	10.08			
01	Fecal Steptococcus	3	100					
01	Fluoride	3	33.33	0.432	0.432			
01	Heterotrophic plate count	3	100	4	38			
01	Iron	3	33.33	0.00892	0.00892	26	0.000343077	
01	Lead	3	100	0.00099	0.00416	0.02	0.208	
01	Manganese (nonfood)	3	100	0.000406	0.00765	0.88	0.008693182	
01	Mercury	3	33.33	0.000016	0.000016	0.00063	0.025396825	
01	Nickel	3	100	0.000856	0.00147	0.73	0.002013699	
01	Nitrate (measured as NO3-)	3	100	3.7	19.7	255.2	0.077194357	
01	Oxidation Reduction Potential	3	100	304	443			
01	Ph	3	100	7.32	7.74			
01	Salinity	3	100					
01	Selenium	3	100	0.000216	0.00111	0.18	0.006166667	
01	Specific Conductance	3	100	0.76	0.87			
01	Sulfate	3	100	10.3	34.8			
01	Temperature	3	100	23	28.9			
01	Tetrachloroethene	3	33.33	0.000222	0.000222	0.22	0.001009091	
01	Tin	3	33.33	0.000203	0.000203	22	9.22727E-06	
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	5.8E-11	3.3E-10	0.000000037	0.008918919	
01	TOTAL HPCDD	3	100	1.4E-09	2.3E-09			
01	TOTAL HPCDF	3	100	2.1E-09	3.1E-09			
01	TOTAL HXCDD	3	33.33	5.1E-10	5.1E-10			
01	TOTAL HXCDF	3	66.67	7.4E-10	9.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Aluminum	3	33.33	0.00229	0.00229			
01	Arsenic	3	100	0.00387	0.00441			
01	Barium	3	100	0.0139	0.0153			
01	Beryllium	3	33.33	0.0000416	0.0000416			
01	Bromodichloromethane	3	100	0.000187	0.000238			
01	Bromoform	3	100	0.0011	0.00532			
01	Chloride	3	100	10	30.9			
01	Chlorine (as Cl2)	3	100		0.02			
01	Chloroform	3	66.67	0.000155	0.000222	0.00021	1.057142857	33.33333333
01	Chromium	3	100	0.000395	0.000962			
01	cis-1,2-dichloroethene	3	33.33	0.000243	0.000243			
01	Cobalt	3	100	0.0000544	0.0000776			
01	Copper	3	100	0.0532	0.205			
01	Dibromochloromethane	3	100	0.000388	0.00101			
01	Dissolved Oxygen	3	100	7.78	10.08			
01	Fecal Steptococcus	3	100					
01	Fluoride	3	33.33	0.432	0.432			
01	Heterotrophic plate count	3	100	4	38			
01	Iron	3	33.33	0.00892	0.00892			
01	Lead	3	100	0.00099	0.00416			
01	Manganese (nonfood)	3	100	0.000406	0.00765			
01	Mercury	3	33.33	0.000016	0.000016			
01	Nickel	3	100	0.000856	0.00147			
01	Nitrate (measured as NO3-)	3	100	3.7	19.7			
01	Oxidation Reduction Potential	3	100	304	443			
01	Ph	3	100	7.32	7.74			
01	Salinity	3	100					
01	Selenium	3	100	0.000216	0.00111			
01	Specific Conductance	3	100	0.76	0.87			
01	Sulfate	3	100	10.3	34.8			
01	Temperature	3	100	23	28.9			
01	Tetrachloroethene	3	33.33	0.000222	0.000222	0.00082	0.270731707	
01	Tin	3	33.33	0.000203	0.000203			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	5.8E-11	3.3E-10			
01	TOTAL HPCDD	3	100	1.4E-09	2.3E-09			
01	TOTAL HPCDF	3	100	2.1E-09	3.1E-09			
01	TOTAL HXCDD	3	33.33	5.1E-10	5.1E-10			
01	TOTAL HXCDF	3	66.67	7.4E-10	9.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Aluminum	3	33.33	0.00229	0.00229			
01	Arsenic	3	100	0.00387	0.00441			
01	Barium	3	100	0.0139	0.0153			
01	Beryllium	3	33.33	0.0000416	0.0000416			
01	Bromodichloromethane	3	100	0.000187	0.000238			
01	Bromoform	3	100	0.0011	0.00532			
01	Chloride	3	100	10	30.9			
01	Chlorine (as Cl2)	3	100		0.02			
01	Chloroform	3	66.67	0.000155	0.000222	0.2	0.00111	
01	Chromium	3	100	0.000395	0.000962			
01	cis-1,2-dichloroethene	3	33.33	0.000243	0.000243			
01	Cobalt	3	100	0.0000544	0.0000776			
01	Copper	3	100	0.0532	0.205			
01	Dibromochloromethane	3	100	0.000388	0.00101			
01	Dissolved Oxygen	3	100	7.78	10.08			
01	Fecal Steptococcus	3	100					
01	Fluoride	3	33.33	0.432	0.432			
01	Heterotrophic plate count	3	100	4	38			
01	Iron	3	33.33	0.00892	0.00892			
01	Lead	3	100	0.00099	0.00416			
01	Manganese (nonfood)	3	100	0.000406	0.00765			
01	Mercury	3	33.33	0.000016	0.000016	0.00063	0.025396825	
01	Nickel	3	100	0.000856	0.00147			
01	Nitrate (measured as NO3-)	3	100	3.7	19.7			
01	Oxidation Reduction Potential	3	100	304	443			
01	Ph	3	100	7.32	7.74			
01	Salinity	3	100					
01	Selenium	3	100	0.000216	0.00111			
01	Specific Conductance	3	100	0.76	0.87			
01	Sulfate	3	100	10.3	34.8			
01	Temperature	3	100	23	28.9			
01	Tetrachloroethene	3	33.33	0.000222	0.000222	0.57	0.000389474	
01	Tin	3	33.33	0.000203	0.000203			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	5.8E-11	3.3E-10			
01	TOTAL HPCDD	3	100	1.4E-09	2.3E-09			
01	TOTAL HPCDF	3	100	2.1E-09	3.1E-09			
01	TOTAL HXCDD	3	33.33	5.1E-10	5.1E-10			
01	TOTAL HXCDF	3	66.67	7.4E-10	9.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Aluminum	3	33.33	0.00229	0.00229			
01	Arsenic	3	100	0.00387	0.00441	0.01	0.441	
01	Barium	3	100	0.0139	0.0153	2	0.00765	
01	Beryllium	3	33.33	0.0000416	0.0000416	0.004	0.0104	
01	Bromodichloromethane	3	100	0.000187	0.000238			
01	Bromoform	3	100	0.0011	0.00532			
01	Chloride	3	100	10	30.9			
01	Chlorine (as Cl2)	3	100		0.02	4.01	0.004987531	
01	Chloroform	3	66.67	0.000155	0.000222			
01	Chromium	3	100	0.000395	0.000962	0.1	0.00962	
01	cis-1,2-dichloroethene	3	33.33	0.000243	0.000243	0.07	0.003471429	
01	Cobalt	3	100	0.0000544	0.0000776			
01	Copper	3	100	0.0532	0.205			
01	Dibromochloromethane	3	100	0.000388	0.00101			
01	Dissolved Oxygen	3	100	7.78	10.08			
01	Fecal Steptococcus	3	100					
01	Fluoride	3	33.33	0.432	0.432	4	0.108	
01	Heterotrophic plate count	3	100	4	38			
01	Iron	3	33.33	0.00892	0.00892			
01	Lead	3	100	0.00099	0.00416			
01	Manganese (nonfood)	3	100	0.000406	0.00765			
01	Mercury	3	33.33	0.000016	0.000016	0.002	0.008	
01	Nickel	3	100	0.000856	0.00147			
01	Nitrate (measured as NO3-)	3	100	3.7	19.7	44.3	0.44469526	
01	Oxidation Reduction Potential	3	100	304	443			
01	Ph	3	100	7.32	7.74			
01	Salinity	3	100					
01	Selenium	3	100	0.000216	0.00111	0.05	0.0222	
01	Specific Conductance	3	100	0.76	0.87			
01	Sulfate	3	100	10.3	34.8			
01	Temperature	3	100	23	28.9			
01	Tetrachloroethene	3	33.33	0.000222	0.000222	0.005	0.0444	
01	Tin	3	33.33	0.000203	0.000203			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	5.8E-11	3.3E-10	0.00000003	0.011	
01	TOTAL HPCDD	3	100	1.4E-09	2.3E-09			
01	TOTAL HPCDF	3	100	2.1E-09	3.1E-09			
01	TOTAL HXCDD	3	33.33	5.1E-10	5.1E-10			
01	TOTAL HXCDF	3	66.67	7.4E-10	9.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	TOTAL PECDD	3	66.67	3E-10	4.1E-10			
01	TOTAL PECDF	3	100	8.6E-10	9.2E-10			
01	TOTAL TCDD	3	100	5.8E-10	6.4E-10			
01	TOTAL TCDF	3	66.67	7.9E-10	1.2E-09			
01	Total Trihalomethanes	3	100	0.002116	0.006752			
01	Trichloroethene	3	33.33	0.000582	0.000582	0.0017	0.342352941	
01	Turbidity	1	100	10	10			
01	Uranium	3	100	0.000934	0.00388			
01	Vanadium	3	100	0.00128	0.00177			
01	Zinc	3	100	0.0572	0.094			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	TOTAL PECDD	3	66.67	3E-10	4.1E-10			
01	TOTAL PECDF	3	100	8.6E-10	9.2E-10			
01	TOTAL TCDD	3	100	5.8E-10	6.4E-10			
01	TOTAL TCDF	3	66.67	7.9E-10	1.2E-09			
01	Total Trihalomethanes	3	100	0.002116	0.006752			
01	Trichloroethene	3	33.33	0.000582	0.000582			
01	Turbidity	1	100	10	10			
01	Uranium	3	100	0.000934	0.00388	0.11	0.035272727	
01	Vanadium	3	100	0.00128	0.00177	0.26	0.006807692	
01	Zinc	3	100	0.0572	0.094	11	0.008545455	

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	TOTAL PECDD	3	66.67	3E-10	4.1E-10			
01	TOTAL PECDF	3	100	8.6E-10	9.2E-10			
01	TOTAL TCDD	3	100	5.8E-10	6.4E-10			
01	TOTAL TCDF	3	66.67	7.9E-10	1.2E-09			
01	Total Trihalomethanes	3	100	0.002116	0.006752			
01	Trichloroethene	3	33.33	0.000582	0.000582	0.0024	0.2425	
01	Turbidity	1	100	10	10			
01	Uranium	3	100	0.000934	0.00388			
01	Vanadium	3	100	0.00128	0.00177			
01	Zinc	3	100	0.0572	0.094			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	TOTAL PECDD	3	66.67	3E-10	4.1E-10			
01	TOTAL PECDF	3	100	8.6E-10	9.2E-10			
01	TOTAL TCDD	3	100	5.8E-10	6.4E-10			
01	TOTAL TCDF	3	66.67	7.9E-10	1.2E-09			
01	Total Trihalomethanes	3	100	0.002116	0.006752			
01	Trichloroethene	3	33.33	0.000582	0.000582			
01	Turbidity	1	100	10	10			
01	Uranium	3	100	0.000934	0.00388			
01	Vanadium	3	100	0.00128	0.00177			
01	Zinc	3	100	0.0572	0.094			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	TOTAL PECDD	3	66.67	3E-10	4.1E-10			
01	TOTAL PECDF	3	100	8.6E-10	9.2E-10			
01	TOTAL TCDD	3	100	5.8E-10	6.4E-10			
01	TOTAL TCDF	3	66.67	7.9E-10	1.2E-09			
01	Total Trihalomethanes	3	100	0.002116	0.006752	0.0807	0.083667906	
01	Trichloroethene	3	33.33	0.000582	0.000582	0.005	0.1164	
01	Turbidity	1	100	10	10			
01	Uranium	3	100	0.000934	0.00388	0.03	0.129333333	
01	Vanadium	3	100	0.00128	0.00177			
01	Zinc	3	100	0.0572	0.094			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Aluminum	6	50	0.0026	0.0108			
05	Antimony	6	50	0.00027	0.000375			
05	Arsenic	6	100	0.00255	0.0179	0.000045	397.7777778	100
05	Barium	6	100	0.00362	0.012			
05	Beryllium	6	33.33	0.000117	0.00014			
05	Bromodichloromethane	8	25	0.000198	0.000217	0.0011	0.197272727	
05	Bromoform	8	50	0.000691	0.00155	0.0085	0.182352941	
05	Cadmium (Water)	6	50	0.0000544	0.00007			
05	Chloride	6	100	7.69	86.6			
05	Chlorine (as Cl2)	8	100		0.12			
05	Chloroform	8	37.5	0.000121	0.000134	0.00019	0.705263158	
05	Chromium	6	50	0.000432	0.000714			
05	Cobalt	6	100	0.0000395	0.00015			
05	Copper	6	100	0.065	1.42			
05	Dibromochloromethane	8	50	0.00022	0.00079	0.0008	0.9875	
05	Dissolved Oxygen	8	100	3.02	9.84			
05	Fecal Coliform	10	30	1	4.2			
05	Fecal Steptococcus	10	100		6			
05	Fluoride	6	100	0.21	2.88			
05	Heterotrophic plate count	10	100		350			
05	Iron	6	66.67	0.00495	0.0907			
05	Lead	6	100	0.00051	0.00351			
05	Manganese (nonfood)	6	100	0.0002	0.00257			
05	Mercury	6	33.33	0.00002	0.000022			
05	Nickel	6	100	0.000806	0.00541			
05	Nitrate (measured as NO3-)	6	100	2.84	99.5			
05	Oxidation Reduction Potential	8	100	205	872			
05	Ph	8	100	6.81	7.75			
05	Salinity	8	100		0.1			
05	Selenium	6	33.33	0.000375	0.000545			
05	Specific Conductance	8	100	0.57	172			
05	Sulfate	6	100	6.41	68.3			
05	Temperature	8	100	16.7	27.83			
05	Tetrachloroethene	8	25	0.01242	0.0139	0.00011	126.3636364	25
05	Thallium	6	16.67	0.00019	0.00019			
05	Tin	6	50	0.0001	0.003			
05	Total Coliforms (including fecal coliform and E. C	10	40	9.9	31			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	75	4.8E-12	0.000000003	5.2E-10	5.769230769	25

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Aluminum	6	50	0.0026	0.0108	37	0.000291892	
05	Antimony	6	50	0.00027	0.000375	0.015	0.025	
05	Arsenic	6	100	0.00255	0.0179	0.011	1.627272727	33.33333333
05	Barium	6	100	0.00362	0.012	7.3	0.001643836	
05	Beryllium	6	33.33	0.000117	0.00014	0.073	0.001917808	
05	Bromodichloromethane	8	25	0.000198	0.000217	0.73	0.00029726	
05	Bromoform	8	50	0.000691	0.00155	0.73	0.002123288	
05	Cadmium (Water)	6	50	0.0000544	0.00007	0.018	0.003888889	
05	Chloride	6	100	7.69	86.6			
05	Chlorine (as Cl2)	8	100		0.12			
05	Chloroform	8	37.5	0.000121	0.000134	0.13	0.001030769	
05	Chromium	6	50	0.000432	0.000714			
05	Cobalt	6	100	0.0000395	0.00015			
05	Copper	6	100	0.065	1.42	1.5	0.946666667	
05	Dibromochloromethane	8	50	0.00022	0.00079	0.73	0.001082192	
05	Dissolved Oxygen	8	100	3.02	9.84			
05	Fecal Coliform	10	30	1	4.2			
05	Fecal Streptococcus	10	100		6			
05	Fluoride	6	100	0.21	2.88			
05	Heterotrophic plate count	10	100		350			
05	Iron	6	66.67	0.00495	0.0907	26	0.003488462	
05	Lead	6	100	0.00051	0.00351	0.02	0.1755	
05	Manganese (nonfood)	6	100	0.0002	0.00257	0.88	0.002920455	
05	Mercury	6	33.33	0.00002	0.000022	0.00063	0.034920635	
05	Nickel	6	100	0.000806	0.00541	0.73	0.007410959	
05	Nitrate (measured as NO3-)	6	100	2.84	99.5	255.2	0.389890282	
05	Oxidation Reduction Potential	8	100	205	872			
05	Ph	8	100	6.81	7.75			
05	Salinity	8	100		0.1			
05	Selenium	6	33.33	0.000375	0.000545	0.18	0.003027778	
05	Specific Conductance	8	100	0.57	172			
05	Sulfate	6	100	6.41	68.3			
05	Temperature	8	100	16.7	27.83			
05	Tetrachloroethene	8	25	0.01242	0.0139	0.22	0.063181818	
05	Thallium	6	16.67	0.00019	0.00019	0.0024	0.079166667	
05	Tin	6	50	0.0001	0.003	22	0.000136364	
05	Total Coliforms (including fecal coliform and E. C	10	40	9.9	31			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	75	4.8E-12	0.000000003	0.000000037	0.081081081	

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Aluminum	6	50	0.0026	0.0108			
05	Antimony	6	50	0.00027	0.000375			
05	Arsenic	6	100	0.00255	0.0179			
05	Barium	6	100	0.00362	0.012			
05	Beryllium	6	33.33	0.000117	0.00014			
05	Bromodichloromethane	8	25	0.000198	0.000217			
05	Bromoform	8	50	0.000691	0.00155			
05	Cadmium (Water)	6	50	0.0000544	0.00007			
05	Chloride	6	100	7.69	86.6			
05	Chlorine (as Cl2)	8	100		0.12			
05	Chloroform	8	37.5	0.000121	0.000134	0.00021	0.638095238	
05	Chromium	6	50	0.000432	0.000714			
05	Cobalt	6	100	0.0000395	0.00015			
05	Copper	6	100	0.065	1.42			
05	Dibromochloromethane	8	50	0.00022	0.00079			
05	Dissolved Oxygen	8	100	3.02	9.84			
05	Fecal Coliform	10	30	1	4.2			
05	Fecal Steptococcus	10	100		6			
05	Fluoride	6	100	0.21	2.88			
05	Heterotrophic plate count	10	100		350			
05	Iron	6	66.67	0.00495	0.0907			
05	Lead	6	100	0.00051	0.00351			
05	Manganese (nonfood)	6	100	0.0002	0.00257			
05	Mercury	6	33.33	0.00002	0.000022			
05	Nickel	6	100	0.000806	0.00541			
05	Nitrate (measured as NO3-)	6	100	2.84	99.5			
05	Oxidation Reduction Potential	8	100	205	872			
05	Ph	8	100	6.81	7.75			
05	Salinity	8	100		0.1			
05	Selenium	6	33.33	0.000375	0.000545			
05	Specific Conductance	8	100	0.57	172			
05	Sulfate	6	100	6.41	68.3			
05	Temperature	8	100	16.7	27.83			
05	Tetrachloroethene	8	25	0.01242	0.0139	0.00082	16.95121951	25
05	Thallium	6	16.67	0.00019	0.00019			
05	Tin	6	50	0.0001	0.003			
05	Total Coliforms (including fecal coliform and E. C	10	40	9.9	31			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	75	4.8E-12	0.000000003			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Aluminum	6	50	0.0026	0.0108			
05	Antimony	6	50	0.00027	0.000375			
05	Arsenic	6	100	0.00255	0.0179			
05	Barium	6	100	0.00362	0.012			
05	Beryllium	6	33.33	0.000117	0.00014			
05	Bromodichloromethane	8	25	0.000198	0.000217			
05	Bromoform	8	50	0.000691	0.00155			
05	Cadmium (Water)	6	50	0.0000544	0.00007			
05	Chloride	6	100	7.69	86.6			
05	Chlorine (as Cl ₂)	8	100		0.12			
05	Chloroform	8	37.5	0.000121	0.000134	0.2	0.00067	
05	Chromium	6	50	0.000432	0.000714			
05	Cobalt	6	100	0.0000395	0.00015			
05	Copper	6	100	0.065	1.42			
05	Dibromochloromethane	8	50	0.00022	0.00079			
05	Dissolved Oxygen	8	100	3.02	9.84			
05	Fecal Coliform	10	30	1	4.2			
05	Fecal Steptococcus	10	100		6			
05	Fluoride	6	100	0.21	2.88			
05	Heterotrophic plate count	10	100		350			
05	Iron	6	66.67	0.00495	0.0907			
05	Lead	6	100	0.00051	0.00351			
05	Manganese (nonfood)	6	100	0.0002	0.00257			
05	Mercury	6	33.33	0.00002	0.000022	0.00063	0.034920635	
05	Nickel	6	100	0.000806	0.00541			
05	Nitrate (measured as NO ₃ -)	6	100	2.84	99.5			
05	Oxidation Reduction Potential	8	100	205	872			
05	Ph	8	100	6.81	7.75			
05	Salinity	8	100		0.1			
05	Selenium	6	33.33	0.000375	0.000545			
05	Specific Conductance	8	100	0.57	172			
05	Sulfate	6	100	6.41	68.3			
05	Temperature	8	100	16.7	27.83			
05	Tetrachloroethene	8	25	0.01242	0.0139	0.57	0.024385965	
05	Thallium	6	16.67	0.00019	0.00019			
05	Tin	6	50	0.0001	0.003			
05	Total Coliforms (including fecal coliform and E. C	10	40	9.9	31			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	75	4.8E-12	0.000000003			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Aluminum	6	50	0.0026	0.0108			
05	Antimony	6	50	0.00027	0.000375	0.006	0.0625	
05	Arsenic	6	100	0.00255	0.0179	0.01	1.79	33.33333333
05	Barium	6	100	0.00362	0.012	2	0.006	
05	Beryllium	6	33.33	0.000117	0.00014	0.004	0.035	
05	Bromodichloromethane	8	25	0.000198	0.000217			
05	Bromoform	8	50	0.000691	0.00155			
05	Cadmium (Water)	6	50	0.0000544	0.00007	0.005	0.014	
05	Chloride	6	100	7.69	86.6			
05	Chlorine (as Cl2)	8	100		0.12	4.01	0.029925187	
05	Chloroform	8	37.5	0.000121	0.000134			
05	Chromium	6	50	0.000432	0.000714	0.1	0.00714	
05	Cobalt	6	100	0.0000395	0.00015			
05	Copper	6	100	0.065	1.42			
05	Dibromochloromethane	8	50	0.00022	0.00079			
05	Dissolved Oxygen	8	100	3.02	9.84			
05	Fecal Coliform	10	30	1	4.2		1.1	30
05	Fecal Steptococcus	10	100		6			
05	Fluoride	6	100	0.21	2.88	4	0.72	
05	Heterotrophic plate count	10	100		350			
05	Iron	6	66.67	0.00495	0.0907			
05	Lead	6	100	0.00051	0.00351			
05	Manganese (nonfood)	6	100	0.0002	0.00257			
05	Mercury	6	33.33	0.00002	0.000022	0.002	0.011	
05	Nickel	6	100	0.000806	0.00541			
05	Nitrate (measured as NO3-)	6	100	2.84	99.5	44.3	2.246049661	33.33333333
05	Oxidation Reduction Potential	8	100	205	872			
05	Ph	8	100	6.81	7.75			
05	Salinity	8	100		0.1			
05	Selenium	6	33.33	0.000375	0.000545	0.05	0.0109	
05	Specific Conductance	8	100	0.57	172			
05	Sulfate	6	100	6.41	68.3			
05	Temperature	8	100	16.7	27.83			
05	Tetrachloroethene	8	25	0.01242	0.0139	0.005	2.78	25
05	Thallium	6	16.67	0.00019	0.00019	0.002	0.095	
05	Tin	6	50	0.0001	0.003			
05	Total Coliforms (including fecal coliform and E. C	10	40	9.9	31		1.1	40
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	8	75	4.8E-12	0.000000003	0.00000003	0.1	

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	TOTAL HPCDD	8	62.5	8.8E-10	4.1E-09			
05	TOTAL HPCDF	8	50	1.2E-09	9.9E-09			
05	TOTAL HXCDD	8	25	8.3E-10	2.2E-09			
05	TOTAL HXCDF	8	25	1.2E-09	5.3E-09			
05	TOTAL PECDD	8	12.5	4E-10	4E-10			
05	TOTAL PECDF	8	37.5	8.3E-10	1.6E-09			
05	TOTAL TCDD	8	25	6.2E-10	9.5E-10			
05	TOTAL TCDF	8	37.5	3.8E-10	1.1E-09			
05	Total Trihalomethanes	8	75	0.00013	0.00234			
05	Turbidity	3	100		6			
05	Uranium	6	100	0.000599	0.0118			
05	Vanadium	6	83.33	0.00115	0.0203			
05	Zinc	6	100	0.0166	1.71			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	TOTAL HPCDD	8	62.5	8.8E-10	4.1E-09			
05	TOTAL HPCDF	8	50	1.2E-09	9.9E-09			
05	TOTAL HXCDD	8	25	8.3E-10	2.2E-09			
05	TOTAL HXCDF	8	25	1.2E-09	5.3E-09			
05	TOTAL PECDD	8	12.5	4E-10	4E-10			
05	TOTAL PECDF	8	37.5	8.3E-10	1.6E-09			
05	TOTAL TCDD	8	25	6.2E-10	9.5E-10			
05	TOTAL TCDF	8	37.5	3.8E-10	1.1E-09			
05	Total Trihalomethanes	8	75	0.00013	0.00234			
05	Turbidity	3	100		6			
05	Uranium	6	100	0.000599	0.0118	0.11	0.107272727	
05	Vanadium	6	83.33	0.00115	0.0203	0.26	0.078076923	
05	Zinc	6	100	0.0166	1.71	11	0.155454545	

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	TOTAL HPCDD	8	62.5	8.8E-10	4.1E-09			
05	TOTAL HPCDF	8	50	1.2E-09	9.9E-09			
05	TOTAL HXCDD	8	25	8.3E-10	2.2E-09			
05	TOTAL HXCDF	8	25	1.2E-09	5.3E-09			
05	TOTAL PECDD	8	12.5	4E-10	4E-10			
05	TOTAL PECDF	8	37.5	8.3E-10	1.6E-09			
05	TOTAL TCDD	8	25	6.2E-10	9.5E-10			
05	TOTAL TCDF	8	37.5	3.8E-10	1.1E-09			
05	Total Trihalomethanes	8	75	0.00013	0.00234			
05	Turbidity	3	100		6			
05	Uranium	6	100	0.000599	0.0118			
05	Vanadium	6	83.33	0.00115	0.0203			
05	Zinc	6	100	0.0166	1.71			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	TOTAL HPCDD	8	62.5	8.8E-10	4.1E-09			
05	TOTAL HPCDF	8	50	1.2E-09	9.9E-09			
05	TOTAL HXCDD	8	25	8.3E-10	2.2E-09			
05	TOTAL HXCDF	8	25	1.2E-09	5.3E-09			
05	TOTAL PECDD	8	12.5	4E-10	4E-10			
05	TOTAL PECDF	8	37.5	8.3E-10	1.6E-09			
05	TOTAL TCDD	8	25	6.2E-10	9.5E-10			
05	TOTAL TCDF	8	37.5	3.8E-10	1.1E-09			
05	Total Trihalomethanes	8	75	0.00013	0.00234			
05	Turbidity	3	100		6			
05	Uranium	6	100	0.000599	0.0118			
05	Vanadium	6	83.33	0.00115	0.0203			
05	Zinc	6	100	0.0166	1.71			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	TOTAL HPCDD	8	62.5	8.8E-10	4.1E-09			
05	TOTAL HPCDF	8	50	1.2E-09	9.9E-09			
05	TOTAL HXCDD	8	25	8.3E-10	2.2E-09			
05	TOTAL HXCDF	8	25	1.2E-09	5.3E-09			
05	TOTAL PECDD	8	12.5	4E-10	4E-10			
05	TOTAL PECDF	8	37.5	8.3E-10	1.6E-09			
05	TOTAL TCDD	8	25	6.2E-10	9.5E-10			
05	TOTAL TCDF	8	37.5	3.8E-10	1.1E-09			
05	Total Trihalomethanes	8	75	0.00013	0.00234	0.0807	0.028996283	
05	Turbidity	3	100		6			
05	Uranium	6	100	0.000599	0.0118	0.03	0.393333333	
05	Vanadium	6	83.33	0.00115	0.0203			
05	Zinc	6	100	0.0166	1.71			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Aluminum	1	100	0.00298	0.00298			
06	Antimony	1	100	0.000151	0.000151			
06	Arsenic	1	100	0.00523	0.00523	0.000045	116.2222222	100
06	Barium	1	100	0.00792	0.00792			
06	Beryllium	1	100	0.000134	0.000134			
06	Cadmium (Water)	1	100	0.0000469	0.0000469			
06	Carbon Tetrachloride	1	100	0.00256	0.00256	0.0002	12.8	100
06	Chloride	1	100	44	44			
06	Chlorine (as Cl2)	3	100	0.02	0.04			
06	Chloroform	1	100	0.00119	0.00119	0.00019	6.263157895	100
06	Chromium	1	100	0.000341	0.000341			
06	Cobalt	1	100	0.000152	0.000152			
06	Copper	1	100	0.311	0.311			
06	Dissolved Oxygen	3	100	5.74	6.54			
06	Fecal Steptococcus	3	100					
06	Fluoride	1	100	1.26	1.26			
06	Heterotrophic plate count	3	100		53			
06	Iron	1	100	0.105	0.105			
06	Lead	1	100	0.00494	0.00494			
06	Manganese (nonfood)	1	100	0.00196	0.00196			
06	Nickel	1	100	0.0198	0.0198			
06	Nitrate (measured as NO3-)	1	100	90	90			
06	Oxidation Reduction Potential	3	100	223	358			
06	Ph	3	100	6.91	7.18			
06	Salinity	3	100		0.1			
06	Selenium	1	100	0.000476	0.000476			
06	Specific Conductance	3	100	1.1	5.76			
06	Sulfate	1	100	51.4	51.4			
06	Temperature	3	100	23.31	28.64			
06	Tetrachloroethene	1	100	0.000413	0.000413	0.00011	3.754545455	100
06	Total Coliforms (including fecal coliform and E. C	3	33.33	2	2			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	3.543E-10	3.543E-10	5.2E-10	0.681346154	
06	TOTAL HPCDD	1	100	2.7E-09	2.7E-09			
06	TOTAL HPCDF	1	100	4.9E-09	4.9E-09			
06	TOTAL HXCDD	1	100	7.3E-10	7.3E-10			
06	TOTAL HXCDF	1	100	1.8E-09	1.8E-09			
06	TOTAL PECDF	1	100	0.000000001	0.000000001			
06	TOTAL TCDD	1	100	7.3E-10	7.3E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Aluminum	1	100	0.00298	0.00298	37	8.05405E-05	
06	Antimony	1	100	0.000151	0.000151	0.015	0.010066667	
06	Arsenic	1	100	0.00523	0.00523	0.011	0.475454545	
06	Barium	1	100	0.00792	0.00792	7.3	0.001084932	
06	Beryllium	1	100	0.000134	0.000134	0.073	0.001835616	
06	Cadmium (Water)	1	100	0.0000469	0.0000469	0.018	0.002605556	
06	Carbon Tetrachloride	1	100	0.00256	0.00256	0.024	0.106666667	
06	Chloride	1	100	44	44			
06	Chlorine (as Cl2)	3	100	0.02	0.04			
06	Chloroform	1	100	0.00119	0.00119	0.13	0.009153846	
06	Chromium	1	100	0.000341	0.000341			
06	Cobalt	1	100	0.000152	0.000152			
06	Copper	1	100	0.311	0.311	1.5	0.207333333	
06	Dissolved Oxygen	3	100	5.74	6.54			
06	Fecal Streptococcus	3	100					
06	Fluoride	1	100	1.26	1.26			
06	Heterotrophic plate count	3	100		53			
06	Iron	1	100	0.105	0.105	26	0.004038462	
06	Lead	1	100	0.00494	0.00494	0.02	0.247	
06	Manganese (nonfood)	1	100	0.00196	0.00196	0.88	0.002227273	
06	Nickel	1	100	0.0198	0.0198	0.73	0.027123288	
06	Nitrate (measured as NO3-)	1	100	90	90	255.2	0.352664577	
06	Oxidation Reduction Potential	3	100	223	358			
06	Ph	3	100	6.91	7.18			
06	Salinity	3	100		0.1			
06	Selenium	1	100	0.000476	0.000476	0.18	0.002644444	
06	Specific Conductance	3	100	1.1	5.76			
06	Sulfate	1	100	51.4	51.4			
06	Temperature	3	100	23.31	28.64			
06	Tetrachloroethene	1	100	0.000413	0.000413	0.22	0.001877273	
06	Total Coliforms (including fecal coliform and E. C	3	33.33	2	2			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	3.543E-10	3.543E-10	0.000000037	0.009575676	
06	TOTAL HPCDD	1	100	2.7E-09	2.7E-09			
06	TOTAL HPCDF	1	100	4.9E-09	4.9E-09			
06	TOTAL HXCDD	1	100	7.3E-10	7.3E-10			
06	TOTAL HXCDF	1	100	1.8E-09	1.8E-09			
06	TOTAL PECDF	1	100	0.000000001	0.000000001			
06	TOTAL TCDD	1	100	7.3E-10	7.3E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Aluminum	1	100	0.00298	0.00298			
06	Antimony	1	100	0.000151	0.000151			
06	Arsenic	1	100	0.00523	0.00523			
06	Barium	1	100	0.00792	0.00792			
06	Beryllium	1	100	0.000134	0.000134			
06	Cadmium (Water)	1	100	0.0000469	0.0000469			
06	Carbon Tetrachloride	1	100	0.00256	0.00256	0.00032	8	100
06	Chloride	1	100	44	44			
06	Chlorine (as Cl2)	3	100	0.02	0.04			
06	Chloroform	1	100	0.00119	0.00119	0.00021	5.666666667	100
06	Chromium	1	100	0.000341	0.000341			
06	Cobalt	1	100	0.000152	0.000152			
06	Copper	1	100	0.311	0.311			
06	Dissolved Oxygen	3	100	5.74	6.54			
06	Fecal Steptococcus	3	100					
06	Fluoride	1	100	1.26	1.26			
06	Heterotrophic plate count	3	100		53			
06	Iron	1	100	0.105	0.105			
06	Lead	1	100	0.00494	0.00494			
06	Manganese (nonfood)	1	100	0.00196	0.00196			
06	Nickel	1	100	0.0198	0.0198			
06	Nitrate (measured as NO3-)	1	100	90	90			
06	Oxidation Reduction Potential	3	100	223	358			
06	Ph	3	100	6.91	7.18			
06	Salinity	3	100		0.1			
06	Selenium	1	100	0.000476	0.000476			
06	Specific Conductance	3	100	1.1	5.76			
06	Sulfate	1	100	51.4	51.4			
06	Temperature	3	100	23.31	28.64			
06	Tetrachloroethene	1	100	0.000413	0.000413	0.00082	0.503658537	
06	Total Coliforms (including fecal coliform and E. C	3	33.33		2			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	3.543E-10	3.543E-10			
06	TOTAL HPCDD	1	100	2.7E-09	2.7E-09			
06	TOTAL HPCDF	1	100	4.9E-09	4.9E-09			
06	TOTAL HXCDD	1	100	7.3E-10	7.3E-10			
06	TOTAL HXCDF	1	100	1.8E-09	1.8E-09			
06	TOTAL PECDF	1	100	0.000000001	0.000000001			
06	TOTAL TCDD	1	100	7.3E-10	7.3E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Aluminum	1	100	0.00298	0.00298			
06	Antimony	1	100	0.000151	0.000151			
06	Arsenic	1	100	0.00523	0.00523			
06	Barium	1	100	0.00792	0.00792			
06	Beryllium	1	100	0.000134	0.000134			
06	Cadmium (Water)	1	100	0.0000469	0.0000469			
06	Carbon Tetrachloride	1	100	0.00256	0.00256	0.39	0.006564103	
06	Chloride	1	100	44	44			
06	Chlorine (as Cl ₂)	3	100	0.02	0.04			
06	Chloroform	1	100	0.00119	0.00119	0.2	0.00595	
06	Chromium	1	100	0.000341	0.000341			
06	Cobalt	1	100	0.000152	0.000152			
06	Copper	1	100	0.311	0.311			
06	Dissolved Oxygen	3	100	5.74	6.54			
06	Fecal Steptococcus	3	100					
06	Fluoride	1	100	1.26	1.26			
06	Heterotrophic plate count	3	100		53			
06	Iron	1	100	0.105	0.105			
06	Lead	1	100	0.00494	0.00494			
06	Manganese (nonfood)	1	100	0.00196	0.00196			
06	Nickel	1	100	0.0198	0.0198			
06	Nitrate (measured as NO ₃ -)	1	100	90	90			
06	Oxidation Reduction Potential	3	100	223	358			
06	Ph	3	100	6.91	7.18			
06	Salinity	3	100		0.1			
06	Selenium	1	100	0.000476	0.000476			
06	Specific Conductance	3	100	1.1	5.76			
06	Sulfate	1	100	51.4	51.4			
06	Temperature	3	100	23.31	28.64			
06	Tetrachloroethene	1	100	0.000413	0.000413	0.57	0.000724561	
06	Total Coliforms (including fecal coliform and E. C)	3	33.33	2	2			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	3.543E-10	3.543E-10			
06	TOTAL HPCDD	1	100	2.7E-09	2.7E-09			
06	TOTAL HPCDF	1	100	4.9E-09	4.9E-09			
06	TOTAL HXCDD	1	100	7.3E-10	7.3E-10			
06	TOTAL HXCDF	1	100	1.8E-09	1.8E-09			
06	TOTAL PECDF	1	100	0.000000001	0.000000001			
06	TOTAL TCDD	1	100	7.3E-10	7.3E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Aluminum	1	100	0.00298	0.00298			
06	Antimony	1	100	0.000151	0.000151	0.006	0.025166667	
06	Arsenic	1	100	0.00523	0.00523	0.01	0.523	
06	Barium	1	100	0.00792	0.00792	2	0.00396	
06	Beryllium	1	100	0.000134	0.000134	0.004	0.0335	
06	Cadmium (Water)	1	100	0.0000469	0.0000469	0.005	0.00938	
06	Carbon Tetrachloride	1	100	0.00256	0.00256	0.005	0.512	
06	Chloride	1	100	44	44			
06	Chlorine (as Cl2)	3	100	0.02	0.04	4.01	0.009975062	
06	Chloroform	1	100	0.00119	0.00119			
06	Chromium	1	100	0.000341	0.000341	0.1	0.00341	
06	Cobalt	1	100	0.000152	0.000152			
06	Copper	1	100	0.311	0.311			
06	Dissolved Oxygen	3	100	5.74	6.54			
06	Fecal Steptococcus	3	100					
06	Fluoride	1	100	1.26	1.26	4	0.315	
06	Heterotrophic plate count	3	100		53			
06	Iron	1	100	0.105	0.105			
06	Lead	1	100	0.00494	0.00494			
06	Manganese (nonfood)	1	100	0.00196	0.00196			
06	Nickel	1	100	0.0198	0.0198			
06	Nitrate (measured as NO3-)	1	100	90	90	44.3	2.031602709	100
06	Oxidation Reduction Potential	3	100	223	358			
06	Ph	3	100	6.91	7.18			
06	Salinity	3	100		0.1			
06	Selenium	1	100	0.000476	0.000476	0.05	0.00952	
06	Specific Conductance	3	100	1.1	5.76			
06	Sulfate	1	100	51.4	51.4			
06	Temperature	3	100	23.31	28.64			
06	Tetrachloroethene	1	100	0.000413	0.000413	0.005	0.0826	
06	Total Coliforms (including fecal coliform and E. C	3	33.33	2	2		1.1	33.33333333
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	3.543E-10	3.543E-10	0.00000003	0.01181	
06	TOTAL HPCDD	1	100	2.7E-09	2.7E-09			
06	TOTAL HPCDF	1	100	4.9E-09	4.9E-09			
06	TOTAL HXCDD	1	100	7.3E-10	7.3E-10			
06	TOTAL HXCDF	1	100	1.8E-09	1.8E-09			
06	TOTAL PECDF	1	100	0.000000001	0.000000001			
06	TOTAL TCDD	1	100	7.3E-10	7.3E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL TCDF	1	100	1.5E-09	1.5E-09			
06	Total Trihalomethanes	1	100	0.00119	0.00119			
06	Trichloroethene	1	100	0.000589	0.000589	0.0017	0.346470588	
06	Turbidity	1	100	22.3	22.3			
06	Uranium	1	100	0.0113	0.0113			
06	Vanadium	1	100	0.0104	0.0104			
06	Zinc	1	100	2.41	2.41			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL TCDF	1	100	1.5E-09	1.5E-09			
06	Total Trihalomethanes	1	100	0.00119	0.00119			
06	Trichloroethene	1	100	0.000589	0.000589			
06	Turbidity	1	100	22.3	22.3			
06	Uranium	1	100	0.0113	0.0113	0.11	0.102727273	
06	Vanadium	1	100	0.0104	0.0104	0.26	0.04	
06	Zinc	1	100	2.41	2.41	11	0.219090909	

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL TCDF	1	100	1.5E-09	1.5E-09			
06	Total Trihalomethanes	1	100	0.00119	0.00119			
06	Trichloroethene	1	100	0.000589	0.000589	0.0024	0.245416667	
06	Turbidity	1	100	22.3	22.3			
06	Uranium	1	100	0.0113	0.0113			
06	Vanadium	1	100	0.0104	0.0104			
06	Zinc	1	100	2.41	2.41			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL TCDF	1	100	1.5E-09	1.5E-09			
06	Total Trihalomethanes	1	100	0.00119	0.00119			
06	Trichloroethene	1	100	0.000589	0.000589			
06	Turbidity	1	100	22.3	22.3			
06	Uranium	1	100	0.0113	0.0113			
06	Vanadium	1	100	0.0104	0.0104			
06	Zinc	1	100	2.41	2.41			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	TOTAL TCDF	1	100	1.5E-09	1.5E-09			
06	Total Trihalomethanes	1	100	0.00119	0.00119	0.0807	0.014745973	
06	Trichloroethene	1	100	0.000589	0.000589	0.005	0.1178	
06	Turbidity	1	100	22.3	22.3			
06	Uranium	1	100	0.0113	0.0113	0.03	0.376666667	
06	Vanadium	1	100	0.0104	0.0104			
06	Zinc	1	100	2.41	2.41			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Antimony	2	100	0.000206	0.000733			
07	Arsenic	2	100	0.00685	0.00703	0.000045	156.2222222	100
07	Barium	2	100	0.0014	0.00145			
07	Beryllium	2	100	0.000346	0.000494			
07	Cadmium (Water)	2	50	0.000582	0.000582			
07	Chloride	2	100	81.9	89.6			
07	Chlorine (as Cl2)	4	100		0.1			
07	Chloroform	2	50	0.00012	0.00012	0.00019	0.631578947	
07	Chromium	2	50	0.00058	0.00058			
07	cis-1,2-Dichloroethene	2	50	0.000354	0.000354			
07	Cobalt	2	100	0.000104	0.000846			
07	Copper	2	100	0.544	0.982			
07	Dissolved Oxygen	4	100	5.36	6.02			
07	Fecal Steptococcus	4	100		1			
07	Fluoride	2	100	1.52	1.53			
07	Heterotrophic plate count	4	100	58	1070			
07	Iron	2	100	0.00848	0.40315			
07	Lead	2	100	0.00079	0.0267			
07	Manganese (nonfood)	2	100	0.00413	0.0133			
07	Nickel	2	100	0.000488	0.155			
07	Nitrate (measured as NO3-)	2	100	92.5	100			
07	Oxidation Reduction Potential	4	100	297	379			
07	Ph	4	100	6.52	6.83			
07	Salinity	4	100	0.1	0.1			
07	Selenium	2	100	0.00053	0.00125			
07	Specific Conductance	4	100	1.2	5.67			
07	Sulfate	2	100	58.3	67.4			
07	Temperature	4	100	19.35	23.14			
07	Tetrachloroethene	2	100	0.00254	0.00662	0.00011	60.18181818	100
07	Total Coliforms (including fecal coliform and E. C	4	100	7.5	36.4			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	100	2.6E-10	3.71E-10	5.2E-10	0.713461538	
07	TOTAL HPCDD	2	100	2.2E-09	2.6E-09			
07	TOTAL HPCDF	2	100	1.7E-09	0.000000011			
07	TOTAL HXCDD	2	50	2.3E-09	2.3E-09			
07	TOTAL HXCDF	2	50	3.2E-09	3.2E-09			
07	TOTAL PECDD	2	100	2.1E-10	2.9E-10			
07	TOTAL PECDF	2	50	1.7E-09	1.7E-09			
07	TOTAL TCDD	2	50	6.9E-10	6.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Antimony	2	100	0.000206	0.000733	0.015	0.048866667	
07	Arsenic	2	100	0.00685	0.00703	0.011	0.639090909	
07	Barium	2	100	0.0014	0.00145	7.3	0.00019863	
07	Beryllium	2	100	0.000346	0.000494	0.073	0.006767123	
07	Cadmium (Water)	2	50	0.000582	0.000582	0.018	0.032333333	
07	Chloride	2	100	81.9	89.6			
07	Chlorine (as Cl2)	4	100		0.1			
07	Chloroform	2	50	0.00012	0.00012	0.13	0.000923077	
07	Chromium	2	50	0.00058	0.00058			
07	cis-1,2-Dichloroethene	2	50	0.000354	0.000354	0.37	0.000956757	
07	Cobalt	2	100	0.000104	0.000846			
07	Copper	2	100	0.544	0.982	1.5	0.654666667	
07	Dissolved Oxygen	4	100	5.36	6.02			
07	Fecal Steptococcus	4	100		1			
07	Fluoride	2	100	1.52	1.53			
07	Heterotrophic plate count	4	100	58	1070			
07	Iron	2	100	0.00848	0.40315	26	0.015505769	
07	Lead	2	100	0.00079	0.0267	0.02	1.335	50
07	Manganese (nonfood)	2	100	0.00413	0.0133	0.88	0.015113636	
07	Nickel	2	100	0.000488	0.155	0.73	0.212328767	
07	Nitrate (measured as NO3-)	2	100	92.5	100	255.2	0.39184953	
07	Oxidation Reduction Potential	4	100	297	379			
07	Ph	4	100	6.52	6.83			
07	Salinity	4	100	0.1	0.1			
07	Selenium	2	100	0.00053	0.00125	0.18	0.006944444	
07	Specific Conductance	4	100	1.2	5.67			
07	Sulfate	2	100	58.3	67.4			
07	Temperature	4	100	19.35	23.14			
07	Tetrachloroethene	2	100	0.00254	0.00662	0.22	0.030090909	
07	Total Coliforms (including fecal coliform and E. C	4	100	7.5	36.4			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	100	2.6E-10	3.71E-10	0.000000037	0.010027027	
07	TOTAL HPCDD	2	100	2.2E-09	2.6E-09			
07	TOTAL HPCDF	2	100	1.7E-09	0.000000011			
07	TOTAL HXCDD	2	50	2.3E-09	2.3E-09			
07	TOTAL HXCDF	2	50	3.2E-09	3.2E-09			
07	TOTAL PECDD	2	100	2.1E-10	2.9E-10			
07	TOTAL PECDF	2	50	1.7E-09	1.7E-09			
07	TOTAL TCDD	2	50	6.9E-10	6.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Antimony	2	100	0.000206	0.000733			
07	Arsenic	2	100	0.00685	0.00703			
07	Barium	2	100	0.0014	0.00145			
07	Beryllium	2	100	0.000346	0.000494			
07	Cadmium (Water)	2	50	0.000582	0.000582			
07	Chloride	2	100	81.9	89.6			
07	Chlorine (as Cl2)	4	100		0.1			
07	Chloroform	2	50	0.00012	0.00012	0.00021	0.571428571	
07	Chromium	2	50	0.00058	0.00058			
07	cis-1,2-Dichloroethene	2	50	0.000354	0.000354			
07	Cobalt	2	100	0.000104	0.000846			
07	Copper	2	100	0.544	0.982			
07	Dissolved Oxygen	4	100	5.36	6.02			
07	Fecal Steptococcus	4	100		1			
07	Fluoride	2	100	1.52	1.53			
07	Heterotrophic plate count	4	100	58	1070			
07	Iron	2	100	0.00848	0.40315			
07	Lead	2	100	0.00079	0.0267			
07	Manganese (nonfood)	2	100	0.00413	0.0133			
07	Nickel	2	100	0.000488	0.155			
07	Nitrate (measured as NO3-)	2	100	92.5	100			
07	Oxidation Reduction Potential	4	100	297	379			
07	Ph	4	100	6.52	6.83			
07	Salinity	4	100	0.1	0.1			
07	Selenium	2	100	0.00053	0.00125			
07	Specific Conductance	4	100	1.2	5.67			
07	Sulfate	2	100	58.3	67.4			
07	Temperature	4	100	19.35	23.14			
07	Tetrachloroethene	2	100	0.00254	0.00662	0.00082	8.073170732	100
07	Total Coliforms (including fecal coliform and E. C	4	100	7.5	36.4			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	100	2.6E-10	3.71E-10			
07	TOTAL HPCDD	2	100	2.2E-09	2.6E-09			
07	TOTAL HPCDF	2	100	1.7E-09	0.000000011			
07	TOTAL HXCDD	2	50	2.3E-09	2.3E-09			
07	TOTAL HXCDF	2	50	3.2E-09	3.2E-09			
07	TOTAL PECDD	2	100	2.1E-10	2.9E-10			
07	TOTAL PECDF	2	50	1.7E-09	1.7E-09			
07	TOTAL TCDD	2	50	6.9E-10	6.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Antimony	2	100	0.000206	0.000733			
07	Arsenic	2	100	0.00685	0.00703			
07	Barium	2	100	0.0014	0.00145			
07	Beryllium	2	100	0.000346	0.000494			
07	Cadmium (Water)	2	50	0.000582	0.000582			
07	Chloride	2	100	81.9	89.6			
07	Chlorine (as Cl2)	4	100		0.1			
07	Chloroform	2	50	0.00012	0.00012	0.2	0.0006	
07	Chromium	2	50	0.00058	0.00058			
07	cis-1,2-Dichloroethene	2	50	0.000354	0.000354			
07	Cobalt	2	100	0.000104	0.000846			
07	Copper	2	100	0.544	0.982			
07	Dissolved Oxygen	4	100	5.36	6.02			
07	Fecal Steptococcus	4	100		1			
07	Fluoride	2	100	1.52	1.53			
07	Heterotrophic plate count	4	100	58	1070			
07	Iron	2	100	0.00848	0.40315			
07	Lead	2	100	0.00079	0.0267			
07	Manganese (nonfood)	2	100	0.00413	0.0133			
07	Nickel	2	100	0.000488	0.155			
07	Nitrate (measured as NO3-)	2	100	92.5	100			
07	Oxidation Reduction Potential	4	100	297	379			
07	Ph	4	100	6.52	6.83			
07	Salinity	4	100	0.1	0.1			
07	Selenium	2	100	0.00053	0.00125			
07	Specific Conductance	4	100	1.2	5.67			
07	Sulfate	2	100	58.3	67.4			
07	Temperature	4	100	19.35	23.14			
07	Tetrachloroethene	2	100	0.00254	0.00662	0.57	0.011614035	
07	Total Coliforms (including fecal coliform and E. C	4	100	7.5	36.4			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	100	2.6E-10	3.71E-10			
07	TOTAL HPCDD	2	100	2.2E-09	2.6E-09			
07	TOTAL HPCDF	2	100	1.7E-09	0.000000011			
07	TOTAL HXCDD	2	50	2.3E-09	2.3E-09			
07	TOTAL HXCDF	2	50	3.2E-09	3.2E-09			
07	TOTAL PECDD	2	100	2.1E-10	2.9E-10			
07	TOTAL PECDF	2	50	1.7E-09	1.7E-09			
07	TOTAL TCDD	2	50	6.9E-10	6.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Antimony	2	100	0.000206	0.000733	0.006	0.122166667	
07	Arsenic	2	100	0.00685	0.00703	0.01	0.703	
07	Barium	2	100	0.0014	0.00145	2	0.000725	
07	Beryllium	2	100	0.000346	0.000494	0.004	0.1235	
07	Cadmium (Water)	2	50	0.000582	0.000582	0.005	0.1164	
07	Chloride	2	100	81.9	89.6			
07	Chlorine (as Cl2)	4	100		0.1	4.01	0.024937656	
07	Chloroform	2	50	0.00012	0.00012			
07	Chromium	2	50	0.00058	0.00058	0.1	0.0058	
07	cis-1,2-Dichloroethene	2	50	0.000354	0.000354	0.07	0.005057143	
07	Cobalt	2	100	0.000104	0.000846			
07	Copper	2	100	0.544	0.982			
07	Dissolved Oxygen	4	100	5.36	6.02			
07	Fecal Steptococcus	4	100		1			
07	Fluoride	2	100	1.52	1.53	4	0.3825	
07	Heterotrophic plate count	4	100	58	1070			
07	Iron	2	100	0.00848	0.40315			
07	Lead	2	100	0.00079	0.0267			
07	Manganese (nonfood)	2	100	0.00413	0.0133			
07	Nickel	2	100	0.000488	0.155			
07	Nitrate (measured as NO3-)	2	100	92.5	100	44.3	2.257336343	100
07	Oxidation Reduction Potential	4	100	297	379			
07	Ph	4	100	6.52	6.83			
07	Salinity	4	100	0.1	0.1			
07	Selenium	2	100	0.00053	0.00125	0.05	0.025	
07	Specific Conductance	4	100	1.2	5.67			
07	Sulfate	2	100	58.3	67.4			
07	Temperature	4	100	19.35	23.14			
07	Tetrachloroethene	2	100	0.00254	0.00662	0.005	1.324	50
07	Total Coliforms (including fecal coliform and E. C	4	100	7.5	36.4		1.1	100
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	100	2.6E-10	3.71E-10	0.00000003	0.012366667	
07	TOTAL HPCDD	2	100	2.2E-09	2.6E-09			
07	TOTAL HPCDF	2	100	1.7E-09	0.000000011			
07	TOTAL HXCDD	2	50	2.3E-09	2.3E-09			
07	TOTAL HXCDF	2	50	3.2E-09	3.2E-09			
07	TOTAL PECDD	2	100	2.1E-10	2.9E-10			
07	TOTAL PECDF	2	50	1.7E-09	1.7E-09			
07	TOTAL TCDD	2	50	6.9E-10	6.9E-10			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL TCDF	2	100	5.7E-10	0.000000001			
07	Total Trihalomethanes	2	50	0.00012	0.00012			
07	Trichloroethene	2	100	0.000452	0.00084	0.0017	0.494117647	
07	Uranium	2	100	0.0132	0.0161			
07	Vanadium	2	100	0.00991	0.0108			
07	Zinc	2	100	0.128	5.52			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL TCDF	2	100	5.7E-10	0.000000001			
07	Total Trihalomethanes	2	50	0.00012	0.00012			
07	Trichloroethene	2	100	0.000452	0.00084			
07	Uranium	2	100	0.0132	0.0161	0.11	0.146363636	
07	Vanadium	2	100	0.00991	0.0108	0.26	0.041538462	
07	Zinc	2	100	0.128	5.52	11	0.501818182	

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL TCDF	2	100	5.7E-10	0.000000001			
07	Total Trihalomethanes	2	50	0.00012	0.00012			
07	Trichloroethene	2	100	0.000452	0.00084	0.0024	0.35	
07	Uranium	2	100	0.0132	0.0161			
07	Vanadium	2	100	0.00991	0.0108			
07	Zinc	2	100	0.128	5.52			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL TCDF	2	100	5.7E-10	0.000000001			
07	Total Trihalomethanes	2	50	0.00012	0.00012			
07	Trichloroethene	2	100	0.000452	0.00084			
07	Uranium	2	100	0.0132	0.0161			
07	Vanadium	2	100	0.00991	0.0108			
07	Zinc	2	100	0.128	5.52			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	TOTAL TCDF	2	100	5.7E-10	0.000000001			
07	Total Trihalomethanes	2	50	0.00012	0.00012	0.0807	0.001486989	
07	Trichloroethene	2	100	0.000452	0.00084	0.005	0.168	
07	Uranium	2	100	0.0132	0.0161	0.03	0.536666667	
07	Vanadium	2	100	0.00991	0.0108			
07	Zinc	2	100	0.128	5.52			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-Trichloroethane	25	4	0.0002	0.0002			
08	Aluminum	25	72	0.00231	0.00878			
08	Antimony	25	76	0.000178	0.000536			
08	Arsenic	25	100	0.00286	0.0081	0.000045	180	100
08	Barium	25	100	0.00044	0.0217			
08	Beryllium	25	84	0.0000694	0.000467			
08	Bis(2-ethylhexyl)phthalate	25	8	0.0014	0.00398	0.0048	0.829166667	
08	Bromodichloromethane	25	4	0.000139	0.000139	0.0011	0.126363636	
08	Bromoform	25	8	0.00273	0.00445	0.0085	0.523529412	
08	Cadmium (Water)	25	44	0.00004	0.0004			
08	Chloride	25	100	46.3	99.7			
08	Chlorine (as Cl2)	47	100		0.1			
08	Chloroform	25	28	0.0000972	0.000281	0.00019	1.478947368	4
08	Chloromethane	25	4	0.000227	0.000227	0.0018	0.126111111	
08	Chromium	25	60	0.00015	0.0015			
08	cis-1,2-Dichloroethene	25	12	0.00018	0.000296			
08	Cobalt	25	96	0.0000601	0.000269			
08	Copper	25	100	0.0103	2.36			
08	Dibromochloromethane	25	8	0.000256	0.000425	0.0008	0.53125	
08	Di-n-octylphthalate	25	4	0.00574	0.00574			
08	Dissolved Oxygen	47	100	3.02	8.67			
08	Fecal Coliform	47	27.66	1	200.5			
08	Fecal Steptococcus	47	100		1812			
08	Fluoride	25	100	0.343	1.5			
08	Heterotrophic plate count	47	100		7310			
08	Iron	25	92	0.0047	0.388			
08	Lead	25	100	0.000415	0.0142			
08	Manganese (nonfood)	25	96	0.0001705	0.0135			
08	Mercury	25	12	0.000019	0.00002			
08	Methyl tert-Butyl Ether	25	4	0.00018	0.00018	0.012	0.015	
08	Nickel	25	100	0.00075	0.29			
08	Nitrate (measured as NO3-)	25	100	10.4	112			
08	Oxidation Reduction Potential	47	100	104	454			
08	Ph	47	100	6.62	7.39			
08	Salinity	47	100		0.2			
08	Selenium	25	100	0.00022	0.00139			
08	Specific Conductance	47	100	0.094	5.22			
08	Sulfate	25	100	12.1	87.1			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-Trichloroethane	25	4	0.0002	0.0002	9.1	2.1978E-05	
08	Aluminum	25	72	0.00231	0.00878	37	0.000237297	
08	Antimony	25	76	0.000178	0.000536	0.015	0.035733333	
08	Arsenic	25	100	0.00286	0.0081	0.011	0.736363636	
08	Barium	25	100	0.00044	0.0217	7.3	0.002972603	
08	Beryllium	25	84	0.0000694	0.000467	0.073	0.00639726	
08	Bis(2-ethylhexyl)phthalate	25	8	0.0014	0.00398	0.73	0.005452055	
08	Bromodichloromethane	25	4	0.000139	0.000139	0.73	0.000190411	
08	Bromoform	25	8	0.00273	0.00445	0.73	0.00609589	
08	Cadmium (Water)	25	44	0.00004	0.0004	0.018	0.022222222	
08	Chloride	25	100	46.3	99.7			
08	Chlorine (as Cl2)	47	100		0.1			
08	Chloroform	25	28	0.0000972	0.000281	0.13	0.002161538	
08	Chloromethane	25	4	0.000227	0.000227	0.19	0.001194737	
08	Chromium	25	60	0.00015	0.0015			
08	cis-1,2-Dichloroethene	25	12	0.00018	0.000296	0.37	0.0008	
08	Cobalt	25	96	0.0000601	0.000269			
08	Copper	25	100	0.0103	2.36	1.5	1.573333333	16
08	Dibromochloromethane	25	8	0.000256	0.000425	0.73	0.000582192	
08	Di-n-octylphthalate	25	4	0.00574	0.00574			
08	Dissolved Oxygen	47	100	3.02	8.67			
08	Fecal Coliform	47	27.66	1	200.5			
08	Fecal Streptococcus	47	100		1812			
08	Fluoride	25	100	0.343	1.5			
08	Heterotrophic plate count	47	100		7310			
08	Iron	25	92	0.0047	0.388	26	0.014923077	
08	Lead	25	100	0.000415	0.0142	0.02	0.71	
08	Manganese (nonfood)	25	96	0.0001705	0.0135	0.88	0.015340909	
08	Mercury	25	12	0.000019	0.00002	0.00063	0.031746032	
08	Methyl tert-Butyl Ether	25	4	0.00018	0.00018	6.3	2.85714E-05	
08	Nickel	25	100	0.00075	0.29	0.73	0.397260274	
08	Nitrate (measured as NO3-)	25	100	10.4	112	255.2	0.438871473	
08	Oxidation Reduction Potential	47	100	104	454			
08	Ph	47	100	6.62	7.39			
08	Salinity	47	100		0.2			
08	Selenium	25	100	0.00022	0.00139	0.18	0.007722222	
08	Specific Conductance	47	100	0.094	5.22			
08	Sulfate	25	100	12.1	87.1			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-Trichloroethane	25	4	0.0002	0.0002			
08	Aluminum	25	72	0.00231	0.00878			
08	Antimony	25	76	0.000178	0.000536			
08	Arsenic	25	100	0.00286	0.0081			
08	Barium	25	100	0.00044	0.0217			
08	Beryllium	25	84	0.0000694	0.000467			
08	Bis(2-ethylhexyl)phthalate	25	8	0.0014	0.00398			
08	Bromodichloromethane	25	4	0.000139	0.000139			
08	Bromoform	25	8	0.00273	0.00445			
08	Cadmium (Water)	25	44	0.00004	0.0004			
08	Chloride	25	100	46.3	99.7			
08	Chlorine (as Cl2)	47	100		0.1			
08	Chloroform	25	28	0.0000972	0.000281	0.00021	1.338095238	4
08	Chloromethane	25	4	0.000227	0.000227	0.0027	0.084074074	
08	Chromium	25	60	0.00015	0.0015			
08	cis-1,2-Dichloroethene	25	12	0.00018	0.000296			
08	Cobalt	25	96	0.0000601	0.000269			
08	Copper	25	100	0.0103	2.36			
08	Dibromochloromethane	25	8	0.000256	0.000425			
08	Di-n-octylphthalate	25	4	0.00574	0.00574			
08	Dissolved Oxygen	47	100	3.02	8.67			
08	Fecal Coliform	47	27.66	1	200.5			
08	Fecal Steptococcus	47	100		1812			
08	Fluoride	25	100	0.343	1.5			
08	Heterotrophic plate count	47	100		7310			
08	Iron	25	92	0.0047	0.388			
08	Lead	25	100	0.000415	0.0142			
08	Manganese (nonfood)	25	96	0.0001705	0.0135			
08	Mercury	25	12	0.000019	0.00002			
08	Methyl tert-Butyl Ether	25	4	0.00018	0.00018	0.019	0.009473684	
08	Nickel	25	100	0.00075	0.29			
08	Nitrate (measured as NO3-)	25	100	10.4	112			
08	Oxidation Reduction Potential	47	100	104	454			
08	Ph	47	100	6.62	7.39			
08	Salinity	47	100		0.2			
08	Selenium	25	100	0.00022	0.00139			
08	Specific Conductance	47	100	0.094	5.22			
08	Sulfate	25	100	12.1	87.1			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-Trichloroethane	25	4	0.0002	0.0002	10	0.00002	
08	Aluminum	25	72	0.00231	0.00878			
08	Antimony	25	76	0.000178	0.000536			
08	Arsenic	25	100	0.00286	0.0081			
08	Barium	25	100	0.00044	0.0217			
08	Beryllium	25	84	0.0000694	0.000467			
08	Bis(2-ethylhexyl)phthalate	25	8	0.0014	0.00398			
08	Bromodichloromethane	25	4	0.000139	0.000139			
08	Bromoform	25	8	0.00273	0.00445			
08	Cadmium (Water)	25	44	0.00004	0.0004			
08	Chloride	25	100	46.3	99.7			
08	Chlorine (as Cl2)	47	100		0.1			
08	Chloroform	25	28	0.0000972	0.000281	0.2	0.001405	
08	Chloromethane	25	4	0.000227	0.000227	0.19	0.001194737	
08	Chromium	25	60	0.00015	0.0015			
08	cis-1,2-Dichloroethene	25	12	0.00018	0.000296			
08	Cobalt	25	96	0.0000601	0.000269			
08	Copper	25	100	0.0103	2.36			
08	Dibromochloromethane	25	8	0.000256	0.000425			
08	Di-n-octylphthalate	25	4	0.00574	0.00574			
08	Dissolved Oxygen	47	100	3.02	8.67			
08	Fecal Coliform	47	27.66	1	200.5			
08	Fecal Steptococcus	47	100		1812			
08	Fluoride	25	100	0.343	1.5			
08	Heterotrophic plate count	47	100		7310			
08	Iron	25	92	0.0047	0.388			
08	Lead	25	100	0.000415	0.0142			
08	Manganese (nonfood)	25	96	0.0001705	0.0135			
08	Mercury	25	12	0.000019	0.00002	0.00063	0.031746032	
08	Methyl tert-Butyl Ether	25	4	0.00018	0.00018	6.3	2.85714E-05	
08	Nickel	25	100	0.00075	0.29			
08	Nitrate (measured as NO3-)	25	100	10.4	112			
08	Oxidation Reduction Potential	47	100	104	454			
08	Ph	47	100	6.62	7.39			
08	Salinity	47	100		0.2			
08	Selenium	25	100	0.00022	0.00139			
08	Specific Conductance	47	100	0.094	5.22			
08	Sulfate	25	100	12.1	87.1			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-Trichloroethane	25	4	0.0002	0.0002	0.2	0.001	
08	Aluminum	25	72	0.00231	0.00878			
08	Antimony	25	76	0.000178	0.000536	0.006	0.089333333	
08	Arsenic	25	100	0.00286	0.0081	0.01	0.81	
08	Barium	25	100	0.00044	0.0217	2	0.01085	
08	Beryllium	25	84	0.0000694	0.000467	0.004	0.11675	
08	Bis(2-ethylhexyl)phthalate	25	8	0.0014	0.00398	0.006	0.663333333	
08	Bromodichloromethane	25	4	0.000139	0.000139			
08	Bromoform	25	8	0.00273	0.00445			
08	Cadmium (Water)	25	44	0.00004	0.0004	0.005	0.08	
08	Chloride	25	100	46.3	99.7			
08	Chlorine (as Cl2)	47	100		0.1	4.01	0.024937656	
08	Chloroform	25	28	0.0000972	0.000281			
08	Chloromethane	25	4	0.000227	0.000227			
08	Chromium	25	60	0.00015	0.0015	0.1	0.015	
08	cis-1,2-Dichloroethene	25	12	0.00018	0.000296	0.07	0.004228571	
08	Cobalt	25	96	0.0000601	0.000269			
08	Copper	25	100	0.0103	2.36			
08	Dibromochloromethane	25	8	0.000256	0.000425			
08	Di-n-octylphthalate	25	4	0.00574	0.00574			
08	Dissolved Oxygen	47	100	3.02	8.67			
08	Fecal Coliform	47	27.66	1	200.5		1.1	27.65957447
08	Fecal Steptococcus	47	100		1812			
08	Fluoride	25	100	0.343	1.5	4	0.375	
08	Heterotrophic plate count	47	100		7310			
08	Iron	25	92	0.0047	0.388			
08	Lead	25	100	0.000415	0.0142			
08	Manganese (nonfood)	25	96	0.0001705	0.0135			
08	Mercury	25	12	0.000019	0.00002	0.002	0.01	
08	Methyl tert-Butyl Ether	25	4	0.00018	0.00018			
08	Nickel	25	100	0.00075	0.29			
08	Nitrate (measured as NO3-)	25	100	10.4	112	44.3	2.528216704	92
08	Oxidation Reduction Potential	47	100	104	454			
08	Ph	47	100	6.62	7.39			
08	Salinity	47	100		0.2			
08	Selenium	25	100	0.00022	0.00139	0.05	0.0278	
08	Specific Conductance	47	100	0.094	5.22			
08	Sulfate	25	100	12.1	87.1			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Temperature	47	100	19.4	30.25			
08	Tetrachloroethene	25	76	0.000312	0.0501	0.00011	455.4545455	76
08	Thallium	25	4	0.0004	0.0004			
08	Tin	25	32	0.000101	0.00749			
08	Total Coliforms (including fecal coliform and E. C	47	89.36	1	200.5			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	25	76	1.14E-11	5.086E-09	5.2E-10	9.780769231	16
08	TOTAL HPCDD	25	100	9.5E-10	0.000000012			
08	TOTAL HPCDF	25	100	1.5E-09	0.000000076			
08	TOTAL HXCDD	25	68	4.3E-10	8.2E-09			
08	TOTAL HXCDF	25	76	5.7E-10	0.00000003			
08	TOTAL PECDD	25	44	1.9E-10	2.8E-09			
08	TOTAL PECDF	25	92	4.7E-10	0.000000011			
08	TOTAL TCDD	25	56	4.3E-10	3.2E-09			
08	TOTAL TCDF	25	80	3.3E-10	3.1E-09			
08	Total Trihalomethanes	25	36	0.0000972	0.004706			
08	Trichloroethene	25	36	0.000134	0.00111	0.0017	0.652941176	
08	Turbidity	4	100	0.8	12			
08	Uranium	25	100	0.00173	0.0154			
08	Vanadium	25	92	0.00419	0.0143			
08	Zinc	25	100	0.026	3.05			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Temperature	47	100	19.4	30.25			
08	Tetrachloroethene	25	76	0.000312	0.0501	0.22	0.227727273	
08	Thallium	25	4	0.0004	0.0004	0.0024	0.166666667	
08	Tin	25	32	0.000101	0.00749	22	0.000340455	
08	Total Coliforms (including fecal coliform and E. C	47	89.36	1	200.5			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	25	76	1.14E-11	5.086E-09	0.000000037	0.137459459	
08	TOTAL HPCDD	25	100	9.5E-10	0.000000012			
08	TOTAL HPCDF	25	100	1.5E-09	0.000000076			
08	TOTAL HXCDD	25	68	4.3E-10	8.2E-09			
08	TOTAL HXCDF	25	76	5.7E-10	0.00000003			
08	TOTAL PECDD	25	44	1.9E-10	2.8E-09			
08	TOTAL PECDF	25	92	4.7E-10	0.000000011			
08	TOTAL TCDD	25	56	4.3E-10	3.2E-09			
08	TOTAL TCDF	25	80	3.3E-10	3.1E-09			
08	Total Trihalomethanes	25	36	0.0000972	0.004706			
08	Trichloroethene	25	36	0.000134	0.00111			
08	Turbidity	4	100	0.8	12			
08	Uranium	25	100	0.00173	0.0154	0.11	0.14	
08	Vanadium	25	92	0.00419	0.0143	0.26	0.055	
08	Zinc	25	100	0.026	3.05	11	0.277272727	

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Temperature	47	100	19.4	30.25			
08	Tetrachloroethene	25	76	0.000312	0.0501	0.00082	61.09756098	52
08	Thallium	25	4	0.0004	0.0004			
08	Tin	25	32	0.000101	0.00749			
08	Total Coliforms (including fecal coliform and E. C	47	89.36	1	200.5			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	25	76	1.14E-11	5.086E-09			
08	TOTAL HPCDD	25	100	9.5E-10	0.000000012			
08	TOTAL HPCDF	25	100	1.5E-09	0.000000076			
08	TOTAL HXCDD	25	68	4.3E-10	8.2E-09			
08	TOTAL HXCDF	25	76	5.7E-10	0.00000003			
08	TOTAL PECDD	25	44	1.9E-10	2.8E-09			
08	TOTAL PECDF	25	92	4.7E-10	0.000000011			
08	TOTAL TCDD	25	56	4.3E-10	3.2E-09			
08	TOTAL TCDF	25	80	3.3E-10	3.1E-09			
08	Total Trihalomethanes	25	36	0.0000972	0.004706			
08	Trichloroethene	25	36	0.000134	0.00111	0.0024	0.4625	
08	Turbidity	4	100	0.8	12			
08	Uranium	25	100	0.00173	0.0154			
08	Vanadium	25	92	0.00419	0.0143			
08	Zinc	25	100	0.026	3.05			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Temperature	47	100	19.4	30.25			
08	Tetrachloroethene	25	76	0.000312	0.0501	0.57	0.087894737	
08	Thallium	25	4	0.0004	0.0004			
08	Tin	25	32	0.000101	0.00749			
08	Total Coliforms (including fecal coliform and E. C	47	89.36	1	200.5			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	25	76	1.14E-11	5.086E-09			
08	TOTAL HPCDD	25	100	9.5E-10	0.00000012			
08	TOTAL HPCDF	25	100	1.5E-09	0.00000076			
08	TOTAL HXCDD	25	68	4.3E-10	8.2E-09			
08	TOTAL HXCDF	25	76	5.7E-10	0.00000003			
08	TOTAL PECDD	25	44	1.9E-10	2.8E-09			
08	TOTAL PECDF	25	92	4.7E-10	0.00000011			
08	TOTAL TCDD	25	56	4.3E-10	3.2E-09			
08	TOTAL TCDF	25	80	3.3E-10	3.1E-09			
08	Total Trihalomethanes	25	36	0.0000972	0.004706			
08	Trichloroethene	25	36	0.000134	0.00111			
08	Turbidity	4	100	0.8	12			
08	Uranium	25	100	0.00173	0.0154			
08	Vanadium	25	92	0.00419	0.0143			
08	Zinc	25	100	0.026	3.05			

Table B-4
Statistical Summary of Analytical Results, Standards, and Risk Results for the 130 Residences Located on the Economy
Media: Tap Water (Private Well Water) (mg/L) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Temperature	47	100	19.4	30.25			
08	Tetrachloroethene	25	76	0.000312	0.0501	0.005	10.02	24
08	Thallium	25	4	0.0004	0.0004	0.002	0.2	
08	Tin	25	32	0.000101	0.00749			
08	Total Coliforms (including fecal coliform and E. C	47	89.36	1	200.5		1.1	89.36170213
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	25	76	1.14E-11	5.086E-09	0.00000003	0.169533333	
08	TOTAL HPCDD	25	100	9.5E-10	0.000000012			
08	TOTAL HPCDF	25	100	1.5E-09	0.000000076			
08	TOTAL HXCDD	25	68	4.3E-10	8.2E-09			
08	TOTAL HXCDF	25	76	5.7E-10	0.00000003			
08	TOTAL PECDD	25	44	1.9E-10	2.8E-09			
08	TOTAL PECDF	25	92	4.7E-10	0.000000011			
08	TOTAL TCDD	25	56	4.3E-10	3.2E-09			
08	TOTAL TCDF	25	80	3.3E-10	3.1E-09			
08	Total Trihalomethanes	25	36	0.0000972	0.004706	0.0807	0.058314746	
08	Trichloroethene	25	36	0.000134	0.00111	0.005	0.222	
08	Turbidity	4	100	0.8	12			
08	Uranium	25	100	0.00173	0.0154	0.03	0.513333333	
08	Vanadium	25	92	0.00419	0.0143			
08	Zinc	25	100	0.026	3.05			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1,1-Trichloroethane	5	80	0.000164	0.000242			
01	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000477	0.000852			
01	1,1-Dichloroethene	5	20	0.000138	0.000138			
01	1,2,4-Trimethylbenzene	5	100	0.000375	0.00168			
01	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000273	0.000318			
01	1,2-Dichloroethane	5	20	0.00016	0.00016	0.000094	1.70212766	20
01	1,2-Dichloropropane	5	60	0.00418	0.00445	0.00024	18.54166667	60
01	1,3,5-Trimethylbenzene	5	100	0.000121	0.00043			
01	2,4-Dichlorophenol	5	20	7.605E-07	7.605E-07			
01	2,4-Dimethylphenol	5	40	0.00000962	1.1442E-06			
01	2,6-Dichlorophenol	5	20	8.825E-07	8.825E-07			
01	2-Butanone (methyl ethyl ketone)	6	83.33	0.00254	0.0039			
01	3&4-Methylphenol	5	20	2.0545E-06	2.0545E-06			
01	4-Chloro-3-Methylphenol	5	20	5.5795E-06	5.5795E-06			
01	Acetaldehyde	6	100	0.000388356	0.0868	0.0011	78.90909091	83.33333333
01	Acetone	5	100	0.0116	0.0204			
01	Acetonitrile	5	100	0.000718	0.00117			
01	Acetophenone	5	100	0.0134	0.0614			
01	Acrolein	5	100	0.00128	0.00378			
01	Acrylonitrile	5	60	0.000461	0.000599	0.000036	16.63888889	60
01	Aluminum	5	100	9.22819E-05	0.000268271			
01	Arsenic	5	100	8.422E-07	6.5699E-06	0.00000057	11.52614035	100
01	Barium	5	100	2.9072E-06	9.9027E-06			
01	Benzaldehyde	5	60	0.000272325	0.000371914			
01	Benzene	5	100	0.000649	0.00146	0.00031	4.709677419	100
01	Bromomethane	5	60	0.000222	0.000295			
01	Butyraldehyde	5	60	9.85954E-05	0.000244599			
01	Cadmium (Diet)	5	40	1.497E-07	5.562E-07			
01	Carbon Disulfide	5	100	0.000388	0.00344			
01	Carbon Tetrachloride	5	100	0.00048	0.000861	0.00016	5.38125	100
01	Chloroethane	5	20	0.000981	0.000981			
01	Chloroform	5	80	0.000164	0.00034	0.00011	3.090909091	80
01	Chloromethane	5	100	0.00114	0.00391	0.0014	2.792857143	80
01	Chromium	5	100	7.265E-07	0.000001698			
01	Cobalt	5	40	1.089E-07	1.584E-07			
01	Crotonaldehyde	5	40	6.58854E-05	0.000239198			
01	Cyclohexane	5	80	0.000199	0.000901			
01	Dibenzofuran	5	20	3.981E-07	3.981E-07			
01	Dichlorodifluoromethane (Freon 12)	5	100	0.00126	0.00215			
01	Dimethylphthalate	5	80	3.026E-07	6.445E-07			
01	Ethylbenzene	5	100	0.000431	0.00141	0.00097	1.453608247	40
01	Fluoranthene	5	100	9.706E-07	2.1322E-06			
01	Formaldehyde	5	100	0.001409722	0.003148148	0.00019	16.56920105	100
01	Gravimetrics-PM10	5	100		0.075183932			
01	Hexachlorobutadiene	9	22.22	0.000464	0.000468	0.00011	4.254545455	22.22222222
01	Hexaldehyde	5	40	0.000300154	0.000358507			
01	Hexane	5	100	0.0016	0.0504			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1,1-Trichloroethane	5	80	0.000164	0.000242	5.2	4.65385E-05	
01	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000477	0.000852	31	2.74839E-05	
01	1,1-Dichloroethene	5	20	0.000138	0.000138	0.21	0.000657143	
01	1,2,4-Trimethylbenzene	5	100	0.000375	0.00168	0.0073	0.230136986	
01	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000273	0.000318			
01	1,2-Dichloroethane	5	20	0.00016	0.00016	2.5	0.000064	
01	1,2-Dichloropropane	5	60	0.00418	0.00445	0.0042	1.05952381	40
01	1,3,5-Trimethylbenzene	5	100	0.000121	0.00043			
01	2,4-Dichlorophenol	5	20	7.605E-07	7.605E-07			
01	2,4-Dimethylphenol	5	40	0.00000962	1.1442E-06			
01	2,6-Dichlorophenol	5	20	8.825E-07	8.825E-07			
01	2-Butanone (methyl ethyl ketone)	6	83.33	0.00254	0.0039	5.2	0.00075	
01	3&4-Methylphenol	5	20	2.0545E-06	2.0545E-06			
01	4-Chloro-3-Methylphenol	5	20	5.5795E-06	5.5795E-06			
01	Acetaldehyde	6	100	0.000388356	0.0868	0.0094	9.234042553	83.33333333
01	Acetone	5	100	0.0116	0.0204	32	0.0006375	
01	Acetonitrile	5	100	0.000718	0.00117	0.063	0.018571429	
01	Acetophenone	5	100	0.0134	0.0614			
01	Acrolein	5	100	0.00128	0.00378	0.000021	180	100
01	Acrylonitrile	5	60	0.000461	0.000599	0.0021	0.285238095	
01	Aluminum	5	100	9.22819E-05	0.000268271	0.0052	0.051590635	
01	Arsenic	5	100	8.422E-07	6.5699E-06	0.000031	0.211932258	
01	Barium	5	100	2.9072E-06	9.9027E-06	0.00052	0.019043654	
01	Benzaldehyde	5	60	0.000272325	0.000371914			
01	Benzene	5	100	0.000649	0.00146	0.031	0.047096774	
01	Bromomethane	5	60	0.000222	0.000295	0.0052	0.056730769	
01	Butyraldehyde	5	60	9.85954E-05	0.000244599			
01	Cadmium (Diet)	5	40	1.497E-07	5.562E-07			
01	Carbon Disulfide	5	100	0.000388	0.00344	0.73	0.004712329	
01	Carbon Tetrachloride	5	100	0.00048	0.000861	0.2	0.004305	
01	Chloroethane	5	20	0.000981	0.000981	10	0.000981	
01	Chloroform	5	80	0.000164	0.00034	0.1	0.0034	
01	Chloromethane	5	100	0.00114	0.00391	0.094	0.041595745	
01	Chromium	5	100	7.265E-07	0.000001698			
01	Cobalt	5	40	1.089E-07	1.584E-07			
01	Crotonaldehyde	5	40	6.58854E-05	0.000239198			
01	Cyclohexane	5	80	0.000199	0.000901	6.3	0.000143016	
01	Dibenzofuran	5	20	3.981E-07	3.981E-07			
01	Dichlorodifluoromethane (Freon 12)	5	100	0.00126	0.00215	0.21	0.010238095	
01	Dimethylphthalate	5	80	3.026E-07	6.445E-07			
01	Ethylbenzene	5	100	0.000431	0.00141	1	0.00141	
01	Fluoranthene	5	100	9.706E-07	2.1322E-06			
01	Formaldehyde	5	100	0.001409722	0.003148148	0.01	0.31481482	
01	Gravimetrics-PM10	5	100		0.075183932			
01	Hexachlorobutadiene	9	22.22	0.000464	0.000468			
01	Hexaldehyde	5	40	0.000300154	0.000358507			
01	Hexane	5	100	0.0016	0.0504	0.73	0.069041096	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1,1-Trichloroethane	5	80	0.000164	0.000242	0.006110757	0.039602297	
01	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000477	0.000852			
01	1,1-Dichloroethene	5	20	0.000138	0.000138	0.000951598	0.145019289	
01	1,2,4-Trimethylbenzene	5	100	0.000375	0.00168	0.418084233	0.004018329	
01	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000273	0.000318			
01	1,2-Dichloroethane	5	20	0.00016	0.00016	0.02234189	0.007161435	
01	1,2-Dichloropropane	5	60	0.00418	0.00445	0.002911399	1.528474918	60
01	1,3,5-Trimethylbenzene	5	100	0.000121	0.00043	0.13007065	0.003305896	
01	2,4-Dichlorophenol	5	20	7.605E-07	7.605E-07			
01	2,4-Dimethylphenol	5	40	0.00000962	1.1442E-06			
01	2,6-Dichlorophenol	5	20	8.825E-07	8.825E-07			
01	2-Butanone (methyl ethyl ketone)	6	83.33	0.00254	0.0039	0.313790789	0.012428663	
01	3&4-Methylphenol	5	20	2.0545E-06	2.0545E-06			
01	4-Chloro-3-Methylphenol	5	20	5.5795E-06	5.5795E-06			
01	Acetaldehyde	6	100	0.000388356	0.0868	0.141257881	0.614478988	
01	Acetone	5	100	0.0116	0.0204	8.166831902	0.002497909	
01	Acetonitrile	5	100	0.000718	0.00117	0.027535902	0.042489983	
01	Acetophenone	5	100	0.0134	0.0614			
01	Acrolein	5	100	0.00128	0.00378	0.094923681	0.039821465	
01	Acrylonitrile	5	60	0.000461	0.000599	0.035158307	0.017037225	
01	Aluminum	5	100	9.22819E-05	0.000268271			
01	Arsenic	5	100	8.422E-07	6.5699E-06	0.00003	0.218996667	
01	Barium	5	100	2.9072E-06	9.9027E-06			
01	Benzaldehyde	5	60	0.000272325	0.000371914			
01	Benzene	5	100	0.000649	0.00146	0.0057	0.256140351	
01	Bromomethane	5	60	0.000222	0.000295			
01	Butyraldehyde	5	60	9.85954E-05	0.000244599			
01	Cadmium (Diet)	5	40	1.497E-07	5.562E-07			
01	Carbon Disulfide	5	100	0.000388	0.00344	0.001120933	3.068873418	60
01	Carbon Tetrachloride	5	100	0.00048	0.000861	0.0007	1.23	80
01	Chloroethane	5	20	0.000981	0.000981	0.008528118	0.115031244	
01	Chloroform	5	80	0.000164	0.00034	0.0003	1.133333333	40
01	Chloromethane	5	100	0.00114	0.00391	0.02465549	0.158585373	
01	Chromium	5	100	7.265E-07	0.000001698			
01	Cobalt	5	40	1.089E-07	1.584E-07			
01	Crotonaldehyde	5	40	6.58854E-05	0.000239198			
01	Cyclohexane	5	80	0.000199	0.000901	2.49075254	0.000361738	
01	Dibenzofuran	5	20	3.981E-07	3.981E-07			
01	Dichlorodifluoromethane (Freon 12)	5	100	0.00126	0.00215			
01	Dimethylphthalate	5	80	3.026E-07	6.445E-07			
01	Ethylbenzene	5	100	0.000431	0.00141	0.628074798	0.002244956	
01	Fluoranthene	5	100	9.706E-07	2.1322E-06			
01	Formaldehyde	5	100	0.001409722	0.003148148	0.0079	0.398499772	
01	Gravimetrics-PM10	5	100		0.075183932			
01	Hexachlorobutadiene	9	22.22	0.000464	0.000468	0.004095372	0.114275339	
01	Hexaldehyde	5	40	0.000300154	0.000358507			
01	Hexane	5	100	0.0016	0.0504	3.079532452	0.016366121	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	1,1,1-Trichloroethane	5	80	0.000164	0.000242			
01	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000477	0.000852			
01	1,1-Dichloroethene	5	20	0.000138	0.000138			
01	1,2,4-Trimethylbenzene	5	100	0.000375	0.00168			
01	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000273	0.000318			
01	1,2-Dichloroethane	5	20	0.00016	0.00016			
01	1,2-Dichloropropane	5	60	0.00418	0.00445			
01	1,3,5-Trimethylbenzene	5	100	0.000121	0.00043			
01	2,4-Dichlorophenol	5	20	7.605E-07	7.605E-07			
01	2,4-Dimethylphenol	5	40	0.00000962	1.1442E-06			
01	2,6-Dichlorophenol	5	20	8.825E-07	8.825E-07			
01	2-Butanone (methyl ethyl ketone)	6	83.33	0.00254	0.0039			
01	3&4-Methylphenol	5	20	2.0545E-06	2.0545E-06			
01	4-Chloro-3-Methylphenol	5	20	5.5795E-06	5.5795E-06			
01	Acetaldehyde	5	100	0.000388356	0.0868			
01	Acetone	5	100	0.0116	0.0204			
01	Acetonitrile	5	100	0.000718	0.00117			
01	Acetophenone	5	100	0.0134	0.0614			
01	Acrolein	5	100	0.00128	0.00378			
01	Acrylonitrile	5	60	0.000461	0.000599			
01	Aluminum	5	100	9.22819E-05	0.000268271			
01	Arsenic	5	100	8.422E-07	6.5699E-06			
01	Barium	5	100	2.9072E-06	9.9027E-06			
01	Benzaldehyde	5	60	0.000272325	0.000371914			
01	Benzene	5	100	0.000649	0.00146			
01	Bromomethane	5	60	0.000222	0.000295			
01	Butyraldehyde	5	60	9.85954E-05	0.000244599			
01	Cadmium (Diet)	5	40	1.497E-07	5.562E-07			
01	Carbon Disulfide	5	100	0.000388	0.00344			
01	Carbon Tetrachloride	5	100	0.00048	0.000861			
01	Chloroethane	5	20	0.000981	0.000981			
01	Chloroform	5	80	0.000164	0.00034			
01	Chloromethane	5	100	0.00114	0.00391			
01	Chromium	5	100	7.265E-07	0.000001698			
01	Cobalt	5	40	1.089E-07	1.584E-07			
01	Crotonaldehyde	5	40	6.58854E-05	0.000239198			
01	Cyclohexane	5	80	0.000199	0.000901			
01	Dibenzofuran	5	20	3.981E-07	3.981E-07			
01	Dichlorodifluoromethane (Freon 12)	5	100	0.00126	0.00215			
01	Dimethylphthalate	5	80	3.026E-07	6.445E-07			
01	Ethylbenzene	5	100	0.000431	0.00141			
01	Fluoranthene	5	100	9.706E-07	2.1322E-06			
01	Formaldehyde	5	100	0.001409722	0.003148148			
01	Gravimetrics-PM10	5	100		0.075183932	0.15	0.501226214	
01	Hexachlorobutadiene	9	22.22	0.000464	0.000468			
01	Hexaldehyde	5	40	0.000300154	0.000358507			
01	Hexane	5	100	0.0016	0.0504			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Isobutyl Alcohol	5	100	0.0012	0.00367			
01	Lead	5	100	2.5329E-06	0.00017493			
01	m,p-Xylenes	5	100	0.00114	0.00402			
01	Manganese (Diet)	5	100	3.1782E-06	0.00006302			
01	Mercury	5	100	2.0417E-06	2.9722E-06			
01	Methacrylaldehyde	5	100	0.000015015	0.000251543			
01	Methyl tert-Butyl Ether	5	100	0.000934	0.00193	0.0094	0.205319149	
01	Methylcyclohexane	5	60	0.000294	0.000389			
01	Methylene Chloride	5	100	0.000479	0.000824	0.0052	0.158461538	
01	Naphthalene	5	20	1.0923E-06	1.0923E-06	0.000072	0.015170833	
01	N-valeraldehyde	5	100	3.23288E-05	9.10494E-05			
01	o-Xylene	5	100	0.000459	0.00151			
01	Phenanthrene	5	80	3.7196E-06	6.0252E-06			
01	Propionaldehyde	5	100	4.43056E-05	0.00016821			
01	Pyrene	5	100	7.846E-07	1.5984E-06			
01	Styrene	5	60	0.000197	0.000393			
01	Tetrachloroethene	5	80	0.00178	0.00215	0.00041	5.243902439	80
01	Toluene	5	100	0.00181	0.00656			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	20	2.446E-12	2.446E-12	6.4E-11	0.03821875	
01	TOTAL HPCDD	5	100	5.19E-11	2.132E-10			
01	TOTAL HPCDF	5	100	5.96E-11	2.348E-10			
01	TOTAL HXCDD	5	100	1.84E-11	2.024E-10			
01	TOTAL HXCDF	5	100	3.89E-11	2.671E-10			
01	TOTAL PECDD	5	100	3.1E-12	1.187E-10			
01	TOTAL PECDF	5	100	3.37E-11	2.698E-10			
01	TOTAL TCDD	5	100	3.63E-11	8.64E-11			
01	TOTAL TCDF	5	100	1.141E-10	3.238E-10			
01	Total Trihalomethanes	5	80	0.000164	0.00034			
01	Trichloroethene	5	20	0.000489	0.000489	0.0012	0.4075	
01	Trichlorofluoromethane	5	100	0.00132	0.00203			
01	Vinyl Acetate	5	80	0.00116	0.00351			
01	Vinyl Chloride	5	20	0.000234	0.000234	0.00016	1.4625	20

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Isobutyl Alcohol	5	100	0.0012	0.00367			
01	Lead	5	100	2.5329E-06	0.00017493	0.0017	0.01029	
01	m,p-Xylenes	5	100	0.00114	0.00402	0.1	0.0402	
01	Manganese (Diet)	5	100	3.1782E-06	0.00006302			
01	Mercury	5	100	2.0417E-06	2.9722E-06	0.00031	0.009587742	
01	Methacrylaldehyde	5	100	0.000015015	0.000251543			
01	Methyl tert-Butyl Ether	5	100	0.000934	0.00193	3.1	0.000622581	
01	Methylcyclohexane	5	60	0.000294	0.000389	3.1	0.000125484	
01	Methylene Chloride	5	100	0.000479	0.000824	1.1	0.000749091	
01	Naphthalene	5	20	1.0923E-06	1.0923E-06	0.0031	0.000352355	
01	N-valeraldehyde	5	100	3.23288E-05	9.10494E-05			
01	o-Xylene	5	100	0.000459	0.00151	0.73	0.002068493	
01	Phenanthrene	5	80	3.7196E-06	6.0252E-06			
01	Propionaldehyde	5	100	4.43056E-05	0.00016821			
01	Pyrene	5	100	7.846E-07	1.5984E-06			
01	Styrene	5	60	0.000197	0.000393	1	0.000393	
01	Tetrachloroethene	5	80	0.00178	0.00215	0.28	0.007678571	
01	Toluene	5	100	0.00181	0.00656	5.2	0.001261538	
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	20	2.446E-12	2.446E-12			
01	TOTAL HPCDD	5	100	5.19E-11	2.132E-10			
01	TOTAL HPCDF	5	100	5.96E-11	2.348E-10			
01	TOTAL HXCDD	5	100	1.84E-11	2.024E-10			
01	TOTAL HXCDF	5	100	3.89E-11	2.671E-10			
01	TOTAL PECDD	5	100	3.1E-12	1.187E-10			
01	TOTAL PECDF	5	100	3.37E-11	2.698E-10			
01	TOTAL TCDD	5	100	3.63E-11	8.64E-11			
01	TOTAL TCDF	5	100	1.141E-10	3.238E-10			
01	Total Trihalomethanes	5	80	0.000164	0.00034			
01	Trichloroethene	5	20	0.000489	0.000489			
01	Trichlorofluoromethane	5	100	0.00132	0.00203	0.73	0.002780822	
01	Vinyl Acetate	5	80	0.00116	0.00351	0.21	0.016714286	
01	Vinyl Chloride	5	20	0.000234	0.000234	0.1	0.00234	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Isobutyl Alcohol	5	100	0.0012	0.00367			
01	Lead	5	100	2.5329E-06	0.000017493	0.00004	0.437325	
01	m,p-Xylenes	5	100	0.00114	0.00402			
01	Manganese (Diet)	5	100	3.1782E-06	0.000006302			
01	Mercury	5	100	2.0417E-06	2.9722E-06			
01	Methacrylaldehyde	5	100	0.000015015	0.000251543			
01	Methyl tert-Butyl Ether	5	100	0.000934	0.00193	0.31185638	0.006188746	
01	Methylcyclohexane	5	60	0.000294	0.000389	0.424477366	0.000916421	
01	Methylene Chloride	5	100	0.000479	0.000824	0.166739632	0.004941837	
01	Naphthalene	5	20	1.0923E-06	1.0923E-06	0.000199	0.005488945	
01	N-valeraldehyde	5	100	3.23288E-05	9.10494E-05			
01	o-Xylene	5	100	0.000459	0.00151	0.64474935	0.002341995	
01	Phenanthrene	5	80	3.7196E-06	6.0252E-06			
01	Propionaldehyde	5	100	4.43056E-05	0.00016821			
01	Pyrene	5	100	7.846E-07	1.5984E-06			
01	Styrene	5	60	0.000197	0.000393	7.92238593	4.96063E-05	
01	Tetrachloroethene	5	80	0.00178	0.00215	0.013022233	0.165102251	
01	Toluene	5	100	0.00181	0.00656	1.34799501	0.004866487	
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	20	2.446E-12	2.446E-12	2.1E-10	0.011647619	
01	TOTAL HPCDD	5	100	5.19E-11	2.132E-10			
01	TOTAL HPCDF	5	100	5.96E-11	2.348E-10			
01	TOTAL HXCDD	5	100	1.84E-11	2.024E-10			
01	TOTAL HXCDF	5	100	3.89E-11	2.671E-10			
01	TOTAL PECDD	5	100	3.1E-12	1.187E-10			
01	TOTAL PECDF	5	100	3.37E-11	2.698E-10			
01	TOTAL TCDD	5	100	3.63E-11	8.64E-11			
01	TOTAL TCDF	5	100	1.141E-10	3.238E-10			
01	Total Trihalomethanes	5	80	0.000164	0.00034			
01	Trichloroethene	5	20	0.000489	0.000489	0.005158871	0.094788178	
01	Trichlorofluoromethane	5	100	0.00132	0.00203			
01	Vinyl Acetate	5	80	0.00116	0.00351			
01	Vinyl Chloride	5	20	0.000234	0.000234	0.002556196	0.091542265	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
01	Isobutyl Alcohol	5	100	0.0012	0.00367			
01	Lead	5	100	2.5329E-06	0.00017493	0.0015	0.011662	
01	m,p-Xylenes	5	100	0.00114	0.00402			
01	Manganese (Diet)	5	100	3.1782E-06	0.00006302			
01	Mercury	5	100	2.0417E-06	2.9722E-06			
01	Methacrylaldehyde	5	100	0.00015015	0.000251543			
01	Methyl tert-Butyl Ether	5	100	0.000934	0.00193			
01	Methylcyclohexane	5	60	0.000294	0.000389			
01	Methylene Chloride	5	100	0.000479	0.000824			
01	Naphthalene	5	20	1.0923E-06	1.0923E-06			
01	N-valeraldehyde	5	100	3.23288E-05	9.10494E-05			
01	o-Xylene	5	100	0.000459	0.00151			
01	Phenanthrene	5	80	3.7196E-06	6.0252E-06			
01	Propionaldehyde	5	100	4.43056E-05	0.00016821			
01	Pyrene	5	100	7.846E-07	1.5984E-06			
01	Styrene	5	60	0.000197	0.000393			
01	Tetrachloroethene	5	80	0.00178	0.00215			
01	Toluene	5	100	0.00181	0.00656			
01	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	20	2.446E-12	2.446E-12			
01	TOTAL HPCDD	5	100	5.19E-11	2.132E-10			
01	TOTAL HPCDF	5	100	5.96E-11	2.348E-10			
01	TOTAL HXCDD	5	100	1.84E-11	2.024E-10			
01	TOTAL HXCDF	5	100	3.89E-11	2.671E-10			
01	TOTAL PECDD	5	100	3.1E-12	1.187E-10			
01	TOTAL PECDF	5	100	3.37E-11	2.698E-10			
01	TOTAL TCDD	5	100	3.63E-11	8.64E-11			
01	TOTAL TCDF	5	100	1.141E-10	3.238E-10			
01	Total Trihalomethanes	5	80	0.000164	0.00034			
01	Trichloroethene	5	20	0.000489	0.000489			
01	Trichlorofluoromethane	5	100	0.00132	0.00203			
01	Vinyl Acetate	5	80	0.00116	0.00351			
01	Vinyl Chloride	5	20	0.000234	0.000234			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	1,1,1-Trichloroethane	5	20	0.000215	0.000215			
02	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	80	0.000569	0.000816			
02	1,2,4-Trimethylbenzene	5	100	0.00238	0.006325			
02	1,2-Dichloroethane	5	20	0.000167	0.000167	0.000094	1.776595745	20
02	1,2-Dichloropropane	5	100	0.00101	0.00654	0.00024	27.25	100
02	1,3,5-Trimethylbenzene	5	100	0.000491	0.0019			
02	1,3-Butadiene	5	40	0.000507	0.000689	0.000081	8.50617284	40
02	2,4-Dimethylphenol	5	40	8.454E-07	1.3175E-06			
02	2,6-Dinitrotoluene	5	20	1.6087E-06	1.6087E-06			
02	2-Butanone (methyl ethyl ketone)	5	100	0.00199	0.00828			
02	3&4-Methylphenol	5	40	3.1285E-06	5.0355E-06			
02	4-Nitrophenol	4	75	3.4069E-06	5.3152E-06			
02	Acetaldehyde	5	100	0.000539474	0.0612	0.0011	55.63636364	80
02	Acetone	5	100	0.0191	0.5389			
02	Acetonitrile	5	60	0.000434	0.000758			
02	Acetophenone	5	80	0.0239	0.12785			
02	Acrolein	5	80	0.00198	0.00692			
02	Acrylonitrile	5	40	0.000526	0.000738	0.000036	20.5	40
02	Aluminum	5	100	8.72529E-05	0.00072705			
02	Anthracene	5	40	4.217E-07	8.4746E-06			
02	Antimony	5	40	3.0969E-06	9.3111E-06			
02	Arsenic	5	80	4.879E-07	8.4225E-06	0.0000057	14.77631579	60
02	Barium	5	100	5.2539E-06	3.79398E-05			
02	Benzaldehyde	5	80	0.00027877	0.000650585			
02	Benzene	5	100	0.00225	0.00682	0.00031	22	100
02	Beryllium	5	20	1.418E-07	1.418E-07	0.000001	0.1418	
02	Bis(2-ethylhexyl)phthalate	5	40	5.65451E-05	0.000078749			
02	Bromomethane	5	40	0.000266	0.0003			
02	Butyraldehyde	5	60	0.000100146	0.000305556			
02	Cadmium (Diet)	5	60	1.537E-07	2.766E-07			
02	Carbazole	5	20	4.356E-07	4.356E-07			
02	Carbon Disulfide	5	100	0.000563	0.005825			
02	Carbon Tetrachloride	5	100	0.000502	0.000784	0.00016	4.9	100
02	Chloroethane	5	20	0.000417	0.000417			
02	Chloroform	5	20	0.000247	0.000247	0.00011	2.245454545	20
02	Chloromethane	5	80	0.00128	0.00202	0.0014	1.442857143	60
02	Chromium	5	100	2.0296E-06	0.000013136			
02	Cobalt	5	40	7.56E-08	2.616E-07			
02	Crotonaldehyde	5	60	3.86696E-05	0.000136681			
02	Cyclohexane	5	100	0.00018	0.00742			
02	Dichlorodifluoromethane (Freon 12)	5	100	0.00155	0.00249			
02	Dieldrin	5	20	1.3878E-06	1.3878E-06	0.0000053	2.618490566	20
02	Dimethylphthalate	5	80	3.478E-07	1.7911E-06			
02	Ethylbenzene	5	100	0.00203	0.003555	0.00097	3.664948454	100
02	Fluoranthene	5	100	2.9601E-06	5.0028E-06			
02	Formaldehyde	5	100	0.002688492	0.004344729	0.00019	22.86699632	100
02	Gravimetrics-PM10	5	100	0.02613403	0.094005351			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	1,1,1-Trichloroethane	5	20	0.000215	0.000215	5.2	4.13462E-05	
02	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	80	0.000569	0.000816	31	2.63226E-05	
02	1,2,4-Trimethylbenzene	5	100	0.00238	0.006325	0.0073	0.866438356	
02	1,2-Dichloroethane	5	20	0.000167	0.000167	2.5	0.0000668	
02	1,2-Dichloropropane	5	100	0.00101	0.00654	0.0042	1.557142857	40
02	1,3,5-Trimethylbenzene	5	100	0.000491	0.0019			
02	1,3-Butadiene	5	40	0.000507	0.000689	0.0021	0.328095238	
02	2,4-Dimethylphenol	5	40	8.454E-07	1.3175E-06			
02	2,6-Dinitrotoluene	5	20	1.6087E-06	1.6087E-06			
02	2-Butanone (methyl ethyl ketone)	5	100	0.00199	0.00828	5.2	0.001592308	
02	3&4-Methylphenol	5	40	3.1285E-06	5.0355E-06			
02	4-Nitrophenol	4	75	3.4069E-06	5.3152E-06			
02	Acetaldehyde	5	100	0.000539474	0.0612	0.0094	6.510638298	80
02	Acetone	5	100	0.0191	0.5389	32	0.016840625	
02	Acetonitrile	5	60	0.000434	0.000758	0.063	0.012031746	
02	Acetophenone	5	80	0.0239	0.12785			
02	Acrolein	5	80	0.00198	0.00692	0.000021	329.5238095	80
02	Acrylonitrile	5	40	0.000526	0.000738	0.0021	0.351428571	
02	Aluminum	5	100	8.72529E-05	0.000772705	0.0052	0.148597115	
02	Anthracene	5	40	4.217E-07	8.4746E-06			
02	Antimony	5	40	3.0969E-06	9.3111E-06			
02	Arsenic	5	80	4.879E-07	8.4225E-06	0.000031	0.271693548	
02	Barium	5	100	5.2539E-06	3.79398E-05	0.00052	0.072961154	
02	Benzaldehyde	5	80	0.00027877	0.000650585			
02	Benzene	5	100	0.00225	0.00682	0.031	0.22	
02	Beryllium	5	20	1.418E-07	1.418E-07	0.000021	0.006752381	
02	Bis(2-ethylhexyl)phthalate	5	40	5.65451E-05	0.000078749			
02	Bromomethane	5	40	0.000266	0.0003	0.0052	0.057692308	
02	Butyraldehyde	5	60	0.000100146	0.000305556			
02	Cadmium (Diet)	5	60	1.537E-07	2.766E-07			
02	Carbazole	5	20	4.356E-07	4.356E-07			
02	Carbon Disulfide	5	100	0.000563	0.005825	0.73	0.007979452	
02	Carbon Tetrachloride	5	100	0.000502	0.000784	0.2	0.00392	
02	Chloroethane	5	20	0.000417	0.000417	10	0.0000417	
02	Chloroform	5	20	0.000247	0.000247	0.1	0.00247	
02	Chloromethane	5	80	0.00128	0.00202	0.094	0.021489362	
02	Chromium	5	100	2.0296E-06	0.000013136			
02	Cobalt	5	40	7.56E-08	2.616E-07			
02	Crotonaldehyde	5	60	3.86696E-05	0.000136681			
02	Cyclohexane	5	100	0.00018	0.00742	6.3	0.001177778	
02	Dichlorodifluoromethane (Freon 12)	5	100	0.00155	0.00249	0.21	0.011857143	
02	Dieldrin	5	20	1.3878E-06	1.3878E-06			
02	Dimethylphthalate	5	80	3.478E-07	1.7911E-06			
02	Ethylbenzene	5	100	0.00203	0.003555	1	0.003555	
02	Fluoranthene	5	100	2.9601E-06	5.0028E-06			
02	Formaldehyde	5	100	0.002688492	0.004344729	0.01	0.43447293	
02	Gravimetrics-PM10	5	100	0.02613403	0.094005351			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	1,1,1-Trichloroethane	5	20	0.000215	0.000215	0.006110757	0.035183859	
02	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	80	0.000569	0.000816			
02	1,2,4-Trimethylbenzene	5	100	0.00238	0.006325	0.418084233	0.01512853	
02	1,2-Dichloroethane	5	20	0.000167	0.000167	0.02234189	0.007474748	
02	1,2-Dichloropropane	5	100	0.00101	0.00654	0.002911399	2.246342913	60
02	1,3,5-Trimethylbenzene	5	100	0.000491	0.0019	0.13007065	0.014607446	
02	1,3-Butadiene	5	40	0.000507	0.000689	0.248840723	0.002768839	
02	2,4-Dimethylphenol	5	40	8.454E-07	1.3175E-06			
02	2,6-Dinitrotoluene	5	20	1.6087E-06	1.6087E-06			
02	2-Butanone (methyl ethyl ketone)	5	100	0.00199	0.00828	0.313790789	0.026387008	
02	3&4-Methylphenol	5	40	3.1285E-06	5.0355E-06			
02	4-Nitrophenol	4	75	3.4069E-06	5.3152E-06			
02	Acetaldehyde	5	100	0.000539474	0.0612	0.141257881	0.433250162	
02	Acetone	5	100	0.0191	0.5389	8.166831902	0.06598642	
02	Acetonitrile	5	60	0.000434	0.000758	0.027535902	0.027527698	
02	Acetophenone	5	80	0.0239	0.12785			
02	Acrolein	5	80	0.00198	0.00692	0.094923681	0.072900671	
02	Acrylonitrile	5	40	0.000526	0.000738	0.035158307	0.020990772	
02	Aluminum	5	100	8.72529E-05	0.000772705			
02	Anthracene	5	40	4.217E-07	8.4746E-06			
02	Antimony	5	40	3.0969E-06	9.3111E-06			
02	Arsenic	5	80	4.879E-07	8.4225E-06	0.00003	0.28075	
02	Barium	5	100	5.2539E-06	3.79398E-05			
02	Benzaldehyde	5	80	0.00027877	0.000650585			
02	Benzene	5	100	0.00225	0.00682	0.0057	1.196491228	20
02	Beryllium	5	20	1.418E-07	1.418E-07			
02	Bis(2-ethylhexyl)phthalate	5	40	5.65451E-05	0.000078749			
02	Bromomethane	5	40	0.000266	0.0003			
02	Butyraldehyde	5	60	0.000100146	0.000305556			
02	Cadmium (Diet)	5	60	1.537E-07	2.766E-07			
02	Carbazole	5	20	4.356E-07	4.356E-07			
02	Carbon Disulfide	5	100	0.000563	0.005825	0.001120933	5.196566181	60
02	Carbon Tetrachloride	5	100	0.000502	0.000784	0.0007	1.12	20
02	Chloroethane	5	20	0.000417	0.000417	0.008528118	0.048897073	
02	Chloroform	5	20	0.000247	0.000247	0.0003	0.823333333	
02	Chloromethane	5	80	0.00128	0.00202	0.02465549	0.081929016	
02	Chromium	5	100	2.0296E-06	0.000013136			
02	Cobalt	5	40	7.56E-08	2.616E-07			
02	Crotonaldehyde	5	60	3.86696E-05	0.000136681			
02	Cyclohexane	5	100	0.00018	0.00742	2.49075254	0.002979019	
02	Dichlorodifluoromethane (Freon 12)	5	100	0.00155	0.00249			
02	Dieldrin	5	20	1.3878E-06	1.3878E-06	0.00000165	0.841090909	
02	Dimethylphthalate	5	80	3.478E-07	1.7911E-06			
02	Ethylbenzene	5	100	0.00203	0.003555	0.628074798	0.005660154	
02	Fluoranthene	5	100	2.9601E-06	5.0028E-06			
02	Formaldehyde	5	100	0.002688492	0.004344729	0.0079	0.549965734	
02	Gravimetrics-PM10	5	100	0.02613403	0.094005351			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	1,1,1-Trichloroethane	5	20	0.000215	0.000215			
02	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	80	0.000569	0.000816			
02	1,2,4-Trimethylbenzene	5	100	0.00238	0.006325			
02	1,2-Dichloroethane	5	20	0.000167	0.000167			
02	1,2-Dichloropropane	5	100	0.00101	0.00654			
02	1,3,5-Trimethylbenzene	5	100	0.000491	0.0019			
02	1,3-Butadiene	5	40	0.000507	0.000689			
02	2,4-Dimethylphenol	5	40	8.454E-07	1.3175E-06			
02	2,6-Dinitrotoluene	5	20	1.6087E-06	1.6087E-06			
02	2-Butanone (methyl ethyl ketone)	5	100	0.00199	0.00828			
02	3&4-Methylphenol	5	40	3.1285E-06	5.0355E-06			
02	4-Nitrophenol	4	75	3.4069E-06	5.3152E-06			
02	Acetaldehyde	5	100	0.000539474	0.0612			
02	Acetone	5	100	0.0191	0.5389			
02	Acetonitrile	5	60	0.000434	0.000758			
02	Acetophenone	5	80	0.0239	0.12785			
02	Acrolein	5	80	0.00198	0.00692			
02	Acrylonitrile	5	40	0.000526	0.000738			
02	Aluminum	5	100	8.72529E-05	0.000772705			
02	Anthracene	5	40	4.217E-07	8.4746E-06			
02	Antimony	5	40	3.0969E-06	9.3111E-06			
02	Arsenic	5	80	4.879E-07	8.4225E-06			
02	Barium	5	100	5.2539E-06	3.79398E-05			
02	Benzaldehyde	5	80	0.00027877	0.000650585			
02	Benzene	5	100	0.00225	0.00682			
02	Beryllium	5	20	1.418E-07	1.418E-07			
02	Bis(2-ethylhexyl)phthalate	5	40	5.65451E-05	0.000078749			
02	Bromomethane	5	40	0.000266	0.0003			
02	Butyraldehyde	5	60	0.000100146	0.000305556			
02	Cadmium (Diet)	5	60	1.537E-07	2.766E-07			
02	Carbazole	5	20	4.356E-07	4.356E-07			
02	Carbon Disulfide	5	100	0.000563	0.005825			
02	Carbon Tetrachloride	5	100	0.000502	0.000784			
02	Chloroethane	5	20	0.000417	0.000417			
02	Chloroform	5	20	0.000247	0.000247			
02	Chloromethane	5	80	0.00128	0.00202			
02	Chromium	5	100	2.0296E-06	0.000013136			
02	Cobalt	5	40	7.56E-08	2.616E-07			
02	Crotonaldehyde	5	60	3.86696E-05	0.000136681			
02	Cyclohexane	5	100	0.00018	0.00742			
02	Dichlorodifluoromethane (Freon 12)	5	100	0.00155	0.00249			
02	Dieldrin	5	20	1.3878E-06	1.3878E-06			
02	Dimethylphthalate	5	80	3.478E-07	1.7911E-06			
02	Ethylbenzene	5	100	0.00203	0.003555			
02	Fluoranthene	5	100	2.9601E-06	5.0028E-06			
02	Formaldehyde	5	100	0.002688492	0.004344729			
02	Gravimetrics-PM10	5	100	0.02613403	0.094005351	0.15	0.62670234	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	Hexachlorobutadiene	5	40	0.000241	0.000306	0.00011	2.781818182	40
02	Hexaldehyde	5	40	0.000233918	0.000263598			
02	Hexane	5	100	0.00303	0.235			
02	Isobutyl Alcohol	5	60	0.00176	0.0038			
02	Isopropylbenzene	5	60	0.000246	0.000352			
02	Lead	5	100	4.1281E-06	2.52288E-05			
02	m,p-Xylenes	5	100	0.00645	0.01395			
02	Manganese (Diet)	5	100	3.0492E-06	1.53768E-05			
02	Mercury	5	100	1.7091E-06	2.6556E-06			
02	Methacrylaldehyde	5	80	7.52924E-05	0.000396011			
02	Methyl tert-Butyl Ether	5	80	0.00368	0.00737	0.0094	0.784042553	
02	Methylcyclohexane	5	100	0.000298	0.00777			
02	Methylene Chloride	5	100	0.000367	0.00115	0.0052	0.221153846	
02	M-tolualdehyde	5	40	0.000287749	0.000330357			
02	N-valeraldehyde	5	100	3.98045E-05	8.30357E-05			
02	o-Xylene	5	100	0.00268	0.005265			
02	Phenanthrene	5	100	6.7579E-06	1.17059E-05			
02	Phenol	5	20	9.538E-07	9.538E-07			
02	Propionaldehyde	5	100	9.00838E-05	0.000204365			
02	Pyrene	5	100	3.0438E-06	0.00005526			
02	Styrene	5	100	0.000177	0.00249			
02	Tetrachloroethene	5	80	0.00163	0.00389	0.00041	9.487804878	80
02	Thallium	5	20	8.886E-07	8.886E-07			
02	Tin	5	100	1.4605E-06	1.01224E-05			
02	Toluene	5	100	0.00901	0.0171			
02	Total Carcinogenic PAHS (BaP TEQs)	5	20	3.379E-10	3.379E-10	0.00000087	0.000388391	
02	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	1.115E-12	4.50353E-10	6.4E-11	7.036765625	20
02	TOTAL HPCDD	5	100	6.19E-11	3.1197E-09			
02	TOTAL HPCDF	5	100	1.023E-10	4.0692E-09			
02	TOTAL HXCDD	5	100	2.69E-11	3.391E-09			
02	TOTAL HXCDF	5	100	1.13E-10	3.7301E-09			
02	TOTAL PECDD	5	100	2.31E-11	1.3225E-09			
02	TOTAL PECDF	5	100	1.515E-10	1.899E-09			
02	TOTAL TCDD	5	100	5.92E-11	5.426E-10			
02	TOTAL TCDF	5	100	3.768E-10	1.1868E-09			
02	Total Trihalomethanes	5	20	0.000247	0.000247			
02	Trichloroethene	5	20	0.000742	0.000742	0.0012	0.618333333	
02	Trichlorofluoromethane	5	100	0.00142	0.001965			
02	Vanadium	5	20	1.30974E-05	1.30974E-05			
02	Vinyl Acetate	5	80	0.00165	0.00701			
02	Vinyl Chloride	5	20	0.000268	0.000268	0.00016	1.675	20

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	Hexachlorobutadiene	5	40	0.000241	0.000306			
02	Hexaldehyde	5	40	0.000233918	0.000263598			
02	Hexane	5	100	0.00303	0.235	0.73	0.321917808	
02	Isobutyl Alcohol	5	60	0.00176	0.0038			
02	Isopropylbenzene	5	60	0.000246	0.000352	0.42	0.000838095	
02	Lead	5	100	4.1281E-06	2.52288E-05	0.0017	0.014840471	
02	m,p-Xylenes	5	100	0.00645	0.01395	0.1	0.1395	
02	Manganese (Diet)	5	100	3.0492E-06	1.53768E-05			
02	Mercury	5	100	1.7091E-06	2.6556E-06	0.00031	0.008566452	
02	Methacrylaldehyde	5	80	7.52924E-05	0.000396011			
02	Methyl tert-Butyl Ether	5	80	0.00368	0.00737	3.1	0.002377419	
02	Methylcyclohexane	5	100	0.000298	0.00777	3.1	0.002506452	
02	Methylene Chloride	5	100	0.000367	0.00115	1.1	0.001045455	
02	M-tolualdehyde	5	40	0.000287749	0.000330357			
02	N-valeraldehyde	5	100	3.98045E-05	8.30357E-05			
02	o-Xylene	5	100	0.00268	0.005265	0.73	0.007212329	
02	Phenanthrene	5	100	6.7579E-06	1.17059E-05			
02	Phenol	5	20	9.538E-07	9.538E-07	0.21	4.5419E-06	
02	Propionaldehyde	5	100	9.00838E-05	0.000204365			
02	Pyrene	5	100	3.0438E-06	0.00005526			
02	Styrene	5	100	0.000177	0.00249	1	0.00249	
02	Tetrachloroethene	5	80	0.00163	0.00389	0.28	0.013892857	
02	Thallium	5	20	8.886E-07	8.886E-07			
02	Tin	5	100	1.4605E-06	1.01224E-05			
02	Toluene	5	100	0.00901	0.0171	5.2	0.003288462	
02	Total Carcinogenic PAHS (BaP TEQs)	5	20	3.379E-10	3.379E-10			
02	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	1.115E-12	4.50353E-10			
02	TOTAL HPCDD	5	100	6.19E-11	3.1197E-09			
02	TOTAL HPCDF	5	100	1.023E-10	4.0692E-09			
02	TOTAL HXCDD	5	100	2.69E-11	3.391E-09			
02	TOTAL HXCDF	5	100	1.13E-10	3.7301E-09			
02	TOTAL PECDD	5	100	2.31E-11	1.3225E-09			
02	TOTAL PECDF	5	100	1.515E-10	1.899E-09			
02	TOTAL TCDD	5	100	5.92E-11	5.426E-10			
02	TOTAL TCDF	5	100	3.768E-10	1.1868E-09			
02	Total Trihalomethanes	5	20	0.000247	0.000247			
02	Trichloroethene	5	20	0.000742	0.000742			
02	Trichlorofluoromethane	5	100	0.00142	0.001965	0.73	0.002691781	
02	Vanadium	5	20	1.30974E-05	1.30974E-05			
02	Vinyl Acetate	5	80	0.00165	0.00701	0.21	0.033380952	
02	Vinyl Chloride	5	20	0.000268	0.000268	0.1	0.00268	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	Hexachlorobutadiene	5	40	0.000241	0.000306	0.004095372	0.074718491	
02	Hexaldehyde	5	40	0.000233918	0.000263598			
02	Hexane	5	100	0.00303	0.235	3.079532452	0.076310285	
02	Isobutyl Alcohol	5	60	0.00176	0.0038			
02	Isopropylbenzene	5	60	0.000246	0.000352	5.630201006	6.252E-05	
02	Lead	5	100	4.1281E-06	2.52288E-05	0.00004	0.63072	
02	m,p-Xylenes	5	100	0.00645	0.01395			
02	Manganese (Diet)	5	100	3.0492E-06	1.53768E-05			
02	Mercury	5	100	1.7091E-06	2.6556E-06			
02	Methacrylaldehyde	5	80	7.52924E-05	0.000396011			
02	Methyl tert-Butyl Ether	5	80	0.00368	0.00737	0.31185638	0.023632673	
02	Methylcyclohexane	5	100	0.000298	0.00777	0.424477366	0.018304863	
02	Methylene Chloride	5	100	0.000367	0.00115	0.166739632	0.006896981	
02	m-tolualdehyde	5	40	0.000287749	0.000330357			
02	N-valeraldehyde	5	100	3.98045E-05	8.30357E-05			
02	o-Xylene	5	100	0.00268	0.005265	0.64474935	0.008165964	
02	Phenanthrene	5	100	6.7579E-06	1.17059E-05			
02	Phenol	5	20	9.538E-07	9.538E-07			
02	Propionaldehyde	5	100	9.00838E-05	0.000204365			
02	Pyrene	5	100	3.0438E-06	0.000005526			
02	Styrene	5	100	0.000177	0.00249	7.92238593	0.000314299	
02	Tetrachloroethene	5	80	0.00163	0.00389	0.013022233	0.298719886	
02	Thallium	5	20	8.886E-07	8.886E-07			
02	Tin	5	100	1.4605E-06	1.01224E-05			
02	Toluene	5	100	0.00901	0.0171	1.34799501	0.012685507	
02	Total Carcinogenic PAHS (BaP TEQs)	5	20	3.379E-10	3.379E-10	0.000019	1.77842E-05	
02	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	1.115E-12	4.50353E-10	2.1E-10	2.144538095	20
02	TOTAL HPCDD	5	100	6.19E-11	3.1197E-09			
02	TOTAL HPCDF	5	100	1.023E-10	4.0692E-09			
02	TOTAL HXCDD	5	100	2.69E-11	3.391E-09			
02	TOTAL HXCDF	5	100	1.13E-10	3.7301E-09			
02	TOTAL PECDD	5	100	2.31E-11	1.3225E-09			
02	TOTAL PECDF	5	100	1.515E-10	1.899E-09			
02	TOTAL TCDD	5	100	5.92E-11	5.426E-10			
02	TOTAL TCDF	5	100	3.768E-10	1.1868E-09			
02	Total Trihalomethanes	5	20	0.000247	0.000247			
02	Trichloroethene	5	20	0.000742	0.000742	0.005158871	0.143829915	
02	Trichlorofluoromethane	5	100	0.00142	0.001965			
02	Vanadium	5	20	1.30974E-05	1.30974E-05			
02	Vinyl Acetate	5	80	0.00165	0.00701			
02	Vinyl Chloride	5	20	0.000268	0.000268	0.002556196	0.104843277	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
02	Hexachlorobutadiene	5	40	0.000241	0.000306			
02	Hexaldehyde	5	40	0.000233918	0.000263598			
02	Hexane	5	100	0.00303	0.235			
02	Isobutyl Alcohol	5	60	0.00176	0.0038			
02	Isopropylbenzene	5	60	0.000246	0.000352			
02	Lead	5	100	4.1281E-06	2.52288E-05	0.0015	0.0168192	
02	m,p-Xylenes	5	100	0.00645	0.01395			
02	Manganese (Diet)	5	100	3.0492E-06	1.53768E-05			
02	Mercury	5	100	1.7091E-06	2.6556E-06			
02	Methacrylaldehyde	5	80	7.52924E-05	0.000396011			
02	Methyl tert-Butyl Ether	5	80	0.00368	0.00737			
02	Methylcyclohexane	5	100	0.000298	0.00777			
02	Methylene Chloride	5	100	0.000367	0.00115			
02	M-tolualdehyde	5	40	0.000287749	0.000330357			
02	N-valeraldehyde	5	100	3.98045E-05	8.30357E-05			
02	o-Xylene	5	100	0.00268	0.005265			
02	Phenanthrene	5	100	6.7579E-06	1.17059E-05			
02	Phenol	5	20	9.538E-07	9.538E-07			
02	Propionaldehyde	5	100	9.00838E-05	0.000204365			
02	Pyrene	5	100	3.0438E-06	0.000005526			
02	Styrene	5	100	0.000177	0.00249			
02	Tetrachloroethene	5	80	0.00163	0.00389			
02	Thallium	5	20	8.886E-07	8.886E-07			
02	Tin	5	100	1.4605E-06	1.01224E-05			
02	Toluene	5	100	0.00901	0.0171			
02	Total Carcinogenic PAHS (BaP TEQs)	5	20	3.379E-10	3.379E-10			
02	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	1.115E-12	4.50353E-10			
02	TOTAL HPCDD	5	100	6.19E-11	3.1197E-09			
02	TOTAL HPCDF	5	100	1.023E-10	4.0692E-09			
02	TOTAL HXCDD	5	100	2.69E-11	3.391E-09			
02	TOTAL HXCDF	5	100	1.13E-10	3.7301E-09			
02	TOTAL PECDD	5	100	2.31E-11	1.3225E-09			
02	TOTAL PECDF	5	100	1.515E-10	1.899E-09			
02	TOTAL TCDD	5	100	5.92E-11	5.426E-10			
02	TOTAL TCDF	5	100	3.768E-10	1.1868E-09			
02	Total Trihalomethanes	5	20	0.000247	0.000247			
02	Trichloroethene	5	20	0.000742	0.000742			
02	Trichlorofluoromethane	5	100	0.00142	0.001965			
02	Vanadium	5	20	1.30974E-05	1.30974E-05			
02	Vinyl Acetate	5	80	0.00165	0.00701			
02	Vinyl Chloride	5	20	0.000268	0.000268			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,1-Trichloroethane	5	40	0.000216	0.000256			
03	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000418	0.000877			
03	1,2,4-Trimethylbenzene	5	100	0.0011	0.00195			
03	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000292	0.000311			
03	1,2-Dichloropropane	5	80	0.0006	0.00442	0.00024	18.41666667	80
03	1,3,5-Trimethylbenzene	5	100	0.000288	0.000512			
03	1,3-Butadiene	5	40	0.00049	0.0009	0.000081	11.11111111	40
03	2,4,6-Trichlorophenol	5	20	1.0837E-06	1.0837E-06	0.00078	0.001389359	
03	2,4-Dichlorophenol	5	20	1.9083E-06	1.9083E-06			
03	2,4-Dimethylphenol	5	80	8.418E-07	2.0783E-06			
03	2,6-Dichlorophenol	5	20	1.2007E-06	1.2007E-06			
03	2-Butanone (methyl ethyl ketone)	5	100	0.000143863	0.00459			
03	2-Methylphenol (o-Cresol)	5	20	1.1589E-06	1.1589E-06			
03	2-Nitrophenol	5	20	6.547E-07	6.547E-07			
03	3&4-Methylphenol	5	40	3.0088E-06	0.00004018			
03	4-Nitrophenol	5	60	1.6263E-06	4.6053E-06			
03	Acenaphthene	5	20	3.677E-07	3.677E-07			
03	Acenaphthylene	5	20	3.455E-07	3.455E-07			
03	Acetaldehyde	5	100	0.000401989	0.03	0.0011	27.27272727	80
03	Acetone	5	100	0.0145	0.0511			
03	Acetonitrile	5	40	0.000685	0.00331			
03	Acetophenone	5	40	0.011	0.123			
03	Acrolein	5	60	0.0014	0.00296			
03	Acrylonitrile	5	60	0.000335	0.000453	0.000036	12.58333333	60
03	alpha-Chlordane	5	20	1.9176E-06	1.9176E-06			
03	Aluminum	5	100	0.000200889	0.001343605			
03	Anthracene	5	20	6.4998E-06	6.4998E-06			
03	Antimony	5	100	6.3102E-06	3.96409E-05			
03	Arsenic	5	80	1.3655E-06	1.02674E-05	0.00000057	18.01298246	80
03	Barium	5	100	1.24134E-05	3.40642E-05			
03	Benzaldehyde	5	80	0.000215054	0.000929874			
03	Benzene	5	100	0.000874	0.00421	0.00031	13.58064516	100
03	Benzo(g,h,i)perylene	5	40	0.000000309	8.403E-07			
03	Bis(2-ethylhexyl)phthalate	5	20	5.81317E-05	5.81317E-05			
03	Bromomethane	5	40	0.00025	0.000288			
03	Butyraldehyde	5	80	3.23975E-05	0.000355163			
03	Cadmium (Diet)	5	100	2.445E-07	2.8449E-06			
03	Carbon Disulfide	5	100	0.000279	0.0029			
03	Carbon Tetrachloride	5	100	0.000385	0.000847	0.00016	5.29375	100
03	Chloroform	5	60	0.000166	0.000258	0.00011	2.345454545	60
03	Chloromethane	5	80	0.0015	0.00184	0.0014	1.314285714	80
03	Chromium	5	100	5.1115E-06	1.12942E-05			
03	Cobalt	5	100	2.032E-07	4.652E-07			
03	Crotonaldehyde	5	80	3.72542E-05	0.000354297			
03	Cyclohexane	5	100	0.000348	0.004			
03	Dibenzofuran	5	40	5.684E-07	6.798E-07			
03	Dichlorodifluoromethane (Freon 12)	5	100	0.00153	0.00195			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,1-Trichloroethane	5	40	0.000216	0.000256	5.2	4.92308E-05	
03	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000418	0.000877	31	2.82903E-05	
03	1,2,4-Trimethylbenzene	5	100	0.0011	0.00195	0.0073	0.267123288	
03	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000292	0.000311			
03	1,2-Dichloropropane	5	80	0.0006	0.00442	0.0042	1.052380952	20
03	1,3,5-Trimethylbenzene	5	100	0.000288	0.000512			
03	1,3-Butadiene	5	40	0.00049	0.0009	0.0021	0.428571429	
03	2,4,6-Trichlorophenol	5	20	1.0837E-06	1.0837E-06			
03	2,4-Dichlorophenol	5	20	1.9083E-06	1.9083E-06			
03	2,4-Dimethylphenol	5	80	8.418E-07	2.0783E-06			
03	2,6-Dichlorophenol	5	20	1.2007E-06	1.2007E-06			
03	2-Butanone (methyl ethyl ketone)	5	100	0.000143863	0.00459	5.2	0.000882692	
03	2-Methylphenol (o-Cresol)	5	20	1.1589E-06	1.1589E-06			
03	2-Nitrophenol	5	20	6.547E-07	6.547E-07			
03	3&4-Methylphenol	5	40	3.0088E-06	0.00004018			
03	4-Nitrophenol	5	60	1.6263E-06	4.6053E-06			
03	Acenaphthene	5	20	3.677E-07	3.677E-07			
03	Acenaphthylene	5	20	3.455E-07	3.455E-07			
03	Acetaldehyde	5	100	0.000401989	0.03	0.0094	3.191489362	40
03	Acetone	5	100	0.0145	0.0511	32	0.001596875	
03	Acetonitrile	5	40	0.000685	0.00331	0.063	0.052539683	
03	Acetophenone	5	40	0.011	0.123			
03	Acrolein	5	60	0.0014	0.00296	0.000021	140.952381	60
03	Acrylonitrile	5	60	0.000335	0.000453	0.0021	0.215714286	
03	alpha-Chlordane	5	20	1.9176E-06	1.9176E-06			
03	Aluminum	5	100	0.000200889	0.001343605	0.0052	0.258385596	
03	Anthracene	5	20	6.4998E-06	6.4998E-06			
03	Antimony	5	100	6.3102E-06	3.96409E-05			
03	Arsenic	5	80	1.3655E-06	1.02674E-05	0.000031	0.331206452	
03	Barium	5	100	1.24134E-05	3.40642E-05	0.00052	0.065508077	
03	Benzaldehyde	5	80	0.000215054	0.000929874			
03	Benzene	5	100	0.000874	0.00421	0.031	0.135806452	
03	Benzo(g,h,i)perylene	5	40	0.000000309	8.403E-07			
03	Bis(2-ethylhexyl)phthalate	5	20	5.81317E-05	5.81317E-05			
03	Bromomethane	5	40	0.00025	0.000288	0.0052	0.055384615	
03	Butyraldehyde	5	80	3.23975E-05	0.000355163			
03	Cadmium (Diet)	5	100	2.445E-07	2.8449E-06			
03	Carbon Disulfide	5	100	0.000279	0.0029	0.73	0.003972603	
03	Carbon Tetrachloride	5	100	0.000385	0.000847	0.2	0.004235	
03	Chloroform	5	60	0.000166	0.000258	0.1	0.00258	
03	Chloromethane	5	80	0.0015	0.00184	0.094	0.019574468	
03	Chromium	5	100	5.1115E-06	1.12942E-05			
03	Cobalt	5	100	2.032E-07	4.652E-07			
03	Crotonaldehyde	5	80	3.72542E-05	0.000354297			
03	Cyclohexane	5	100	0.000348	0.004	6.3	0.000634921	
03	Dibenzofuran	5	40	5.684E-07	6.798E-07			
03	Dichlorodifluoromethane (Freon 12)	5	100	0.00153	0.00195	0.21	0.009285714	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,1-Trichloroethane	5	40	0.000216	0.000256	0.006110757	0.041893339	
03	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000418	0.000877			
03	1,2,4-Trimethylbenzene	5	100	0.0011	0.00195	0.418084233	0.004664132	
03	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000292	0.000311			
03	1,2-Dichloropropane	5	80	0.0006	0.00442	0.002911399	1.518170592	60
03	1,3,5-Trimethylbenzene	5	100	0.000288	0.000512	0.13007065	0.003936322	
03	1,3-Butadiene	5	40	0.00049	0.0009	0.248840723	0.003616771	
03	2,4,6-Trichlorophenol	5	20	1.0837E-06	1.0837E-06			
03	2,4-Dichlorophenol	5	20	1.9083E-06	1.9083E-06			
03	2,4-Dimethylphenol	5	80	8.418E-07	2.0783E-06			
03	2,6-Dichlorophenol	5	20	1.2007E-06	1.2007E-06			
03	2-Butanone (methyl ethyl ketone)	5	100	0.000143863	0.00459	0.313790789	0.01462758	
03	2-Methylphenol (o-Cresol)	5	20	1.1589E-06	1.1589E-06			
03	2-Nitrophenol	5	20	6.547E-07	6.547E-07			
03	3&4-Methylphenol	5	40	3.0088E-06	0.00004018			
03	4-Nitrophenol	5	60	1.6263E-06	4.6053E-06			
03	Acenaphthene	5	20	3.677E-07	3.677E-07			
03	Acenaphthylene	5	20	3.455E-07	3.455E-07			
03	Acetaldehyde	5	100	0.000401989	0.03	0.141257881	0.21237753	
03	Acetone	5	100	0.0145	0.0511	8.166831902	0.006257016	
03	Acetonitrile	5	40	0.000685	0.00331	0.027535902	0.120206704	
03	Acetophenone	5	40	0.011	0.123			
03	Acrolein	5	60	0.0014	0.00296	0.094923681	0.031182946	
03	Acrylonitrile	5	60	0.000335	0.000453	0.035158307	0.01288458	
03	alpha-Chlordane	5	20	1.9176E-06	1.9176E-06			
03	Aluminum	5	100	0.000200889	0.001343605			
03	Anthracene	5	20	6.4998E-06	6.4998E-06			
03	Antimony	5	100	6.3102E-06	3.96409E-05			
03	Arsenic	5	80	1.3655E-06	1.02674E-05	0.00003	0.342246667	
03	Barium	5	100	1.24134E-05	3.40642E-05			
03	Benzaldehyde	5	80	0.000215054	0.000929874			
03	Benzene	5	100	0.000874	0.00421	0.0057	0.738596491	
03	Benzo(g,h,i)perylene	5	40	0.00000309	8.403E-07			
03	Bis(2-ethylhexyl)phthalate	5	20	5.81317E-05	5.81317E-05			
03	Bromomethane	5	40	0.00025	0.000288			
03	Butyraldehyde	5	80	3.23975E-05	0.000355163			
03	Cadmium (Diet)	5	100	2.445E-07	2.8449E-06			
03	Carbon Disulfide	5	100	0.000279	0.0029	0.001120933	2.587131661	60
03	Carbon Tetrachloride	5	100	0.000385	0.000847	0.0007	1.21	40
03	Chloroform	5	60	0.000166	0.000258	0.0003	0.86	
03	Chloromethane	5	80	0.0015	0.00184	0.02465549	0.074628411	
03	Chromium	5	100	5.1115E-06	1.12942E-05			
03	Cobalt	5	100	2.032E-07	4.652E-07			
03	Crotonaldehyde	5	80	3.72542E-05	0.000354297			
03	Cyclohexane	5	100	0.000348	0.004	2.49075254	0.00160594	
03	Dibenzofuran	5	40	5.684E-07	6.798E-07			
03	Dichlorodifluoromethane (Freon 12)	5	100	0.00153	0.00195			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	1,1,1-Trichloroethane	5	40	0.000216	0.000256			
03	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000418	0.000877			
03	1,2,4-Trimethylbenzene	5	100	0.0011	0.00195			
03	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000292	0.000311			
03	1,2-Dichloropropane	5	80	0.0006	0.00442			
03	1,3,5-Trimethylbenzene	5	100	0.000288	0.000512			
03	1,3-Butadiene	5	40	0.00049	0.0009			
03	2,4,6-Trichlorophenol	5	20	1.0837E-06	1.0837E-06			
03	2,4-Dichlorophenol	5	20	1.9083E-06	1.9083E-06			
03	2,4-Dimethylphenol	5	80	8.418E-07	2.0783E-06			
03	2,6-Dichlorophenol	5	20	1.2007E-06	1.2007E-06			
03	2-Butanone (methyl ethyl ketone)	5	100	0.000143863	0.00459			
03	2-Methylphenol (o-Cresol)	5	20	1.1589E-06	1.1589E-06			
03	2-Nitrophenol	5	20	6.547E-07	6.547E-07			
03	3&4-Methylphenol	5	40	3.0088E-06	0.00004018			
03	4-Nitrophenol	5	60	1.6263E-06	4.6053E-06			
03	Acenaphthene	5	20	3.677E-07	3.677E-07			
03	Acenaphthylene	5	20	3.455E-07	3.455E-07			
03	Acetaldehyde	5	100	0.000401989	0.03			
03	Acetone	5	100	0.0145	0.0511			
03	Acetonitrile	5	40	0.000685	0.00331			
03	Acetophenone	5	40	0.011	0.123			
03	Acrolein	5	60	0.0014	0.00296			
03	Acrylonitrile	5	60	0.000335	0.000453			
03	alpha-Chlordane	5	20	1.9176E-06	1.9176E-06			
03	Aluminum	5	100	0.000200889	0.001343605			
03	Anthracene	5	20	6.4998E-06	6.4998E-06			
03	Antimony	5	100	6.3102E-06	3.96409E-05			
03	Arsenic	5	80	1.3655E-06	1.02674E-05			
03	Barium	5	100	1.24134E-05	3.40642E-05			
03	Benzaldehyde	5	80	0.000215054	0.000929874			
03	Benzene	5	100	0.000874	0.00421			
03	Benzo(g,h,i)perylene	5	40	0.00000309	8.403E-07			
03	Bis(2-ethylhexyl)phthalate	5	20	5.81317E-05	5.81317E-05			
03	Bromomethane	5	40	0.00025	0.000288			
03	Butyraldehyde	5	80	3.23975E-05	0.000355163			
03	Cadmium (Diet)	5	100	2.445E-07	2.8449E-06			
03	Carbon Disulfide	5	100	0.000279	0.0029			
03	Carbon Tetrachloride	5	100	0.000385	0.000847			
03	Chloroform	5	60	0.000166	0.000258			
03	Chloromethane	5	80	0.0015	0.00184			
03	Chromium	5	100	5.1115E-06	1.12942E-05			
03	Cobalt	5	100	2.032E-07	4.652E-07			
03	Crotonaldehyde	5	80	3.72542E-05	0.000354297			
03	Cyclohexane	5	100	0.000348	0.004			
03	Dibenzofuran	5	40	5.684E-07	6.798E-07			
03	Dichlorodifluoromethane (Freon 12)	5	100	0.00153	0.00195			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	Dieldrin	5	20	1.20909E-05	1.20909E-05	0.00000053	22.81296981	20
03	Dimethylphthalate	5	100	3.396E-07	1.24285E-06			
03	Ethylbenzene	5	100	0.000958	0.00183	0.00097	1.886597938	80
03	Fluoranthene	5	100	1.2901E-06	5.4589E-06			
03	Formaldehyde	5	100	0.001460574	0.003689884	0.00019	19.42044158	100
03	Gravimetrics-PM10	5	100	0.027772635	0.073326259			
03	Hexachlorobutadiene	8	25	0.00033	0.000371	0.00011	3.372727273	25
03	Hexaldehyde	5	40	0.000189529	0.000268538			
03	Hexane	5	100	0.00128	0.122			
03	Isobutyl Alcohol	5	60	0.00207	0.00303			
03	Isopropylbenzene	5	20	0.000139	0.000139			
03	Lead	5	100	1.03685E-05	7.09313E-05			
03	m,p-Xylenes	5	100	0.00327	0.00536			
03	Manganese (Diet)	5	100	7.5449E-06	0.000018984			
03	Mercury	5	100	2.0778E-06	3.6645E-06			
03	Methacrylaldehyde	5	100	0.000150538	0.000576057			
03	Methyl tert-Butyl Ether	5	60	0.00121	0.0124	0.0094	1.319148936	20
03	Methylcyclohexane	5	80	0.000262	0.00374			
03	Methylene Chloride	5	100	0.000438	0.00132	0.0052	0.253846154	
03	N-valeraldehyde	5	100	3.51563E-05	8.84604E-05			
03	o-Xylene	5	100	0.00114	0.00195			
03	Phenanthrene	5	100	3.6217E-06	1.36893E-05			
03	Propionaldehyde	5	100	5.41341E-05	0.000186716			
03	Pyrene	5	100	9.528E-07	0.000004415			
03	Styrene	5	60	0.000171	0.00394			
03	Tetrachloroethene	5	60	0.00203	0.00223	0.00041	5.43902439	60
03	Thallium	5	20	1.4349E-06	1.4349E-06			
03	Tin	5	100	2.4901E-06	7.99445E-06			
03	Toluene	5	100	0.00466	0.00716			
03	Total Carcinogenic PAHS (BaP TEQs)	5	40	9.612E-10	2.97755E-07	0.00000087	0.342246782	
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	3.3806E-11	2.73846E-10	6.4E-11	4.27884375	40
03	TOTAL HPCDD	5	100	6.86E-11	1.6169E-09			
03	TOTAL HPCDF	5	100	7.41E-11	2.4938E-09			
03	TOTAL HXCDD	5	100	1.015E-10	2.0554E-09			
03	TOTAL HXCDF	5	100	9.88E-11	3.0145E-09			
03	TOTAL PECDD	5	100	9.88E-11	1.2332E-09			
03	TOTAL PECDF	5	100	1.619E-10	1.9457E-09			
03	TOTAL TCDD	5	100	6.04E-11	7.947E-10			
03	TOTAL TCDF	5	100	2.47E-10	1.6717E-09			
03	Total Trihalomethanes	5	60	0.000166	0.000258			
03	Trichloroethene	5	20	0.000213	0.000213	0.0012	0.1775	
03	Trichlorofluoromethane	5	100	0.00113	0.00188			
03	Vanadium	5	40	8.6166E-06	1.79679E-05			
03	Vinyl Acetate	5	60	0.00219	0.00517			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	Dieldrin	5	20	1.20909E-05	1.20909E-05			
03	Dimethylphthalate	5	100	3.396E-07	1.24285E-06			
03	Ethylbenzene	5	100	0.000958	0.00183	1	0.00183	
03	Fluoranthene	5	100	1.2901E-06	5.4589E-06			
03	Formaldehyde	5	100	0.001460574	0.003689884	0.01	0.36898839	
03	Gravimetrics-PM10	5	100	0.027772635	0.073326259			
03	Hexachlorobutadiene	8	25	0.00033	0.000371			
03	Hexaldehyde	5	40	0.000189529	0.000268538			
03	Hexane	5	100	0.00128	0.122	0.73	0.167123288	
03	Isobutyl Alcohol	5	60	0.00207	0.00303			
03	Isopropylbenzene	5	20	0.000139	0.000139	0.42	0.000330952	
03	Lead	5	100	1.03685E-05	7.09313E-05	0.0017	0.041724265	
03	m,p-Xylenes	5	100	0.00327	0.00536	0.1	0.0536	
03	Manganese (Diet)	5	100	7.5449E-06	0.000018984			
03	Mercury	5	100	2.0778E-06	3.6645E-06	0.00031	0.011820968	
03	Methacrylaldehyde	5	100	0.000150538	0.000576057			
03	Methyl tert-Butyl Ether	5	60	0.00121	0.0124	3.1	0.004	
03	Methylcyclohexane	5	80	0.000262	0.00374	3.1	0.001206452	
03	Methylene Chloride	5	100	0.000438	0.00132	1.1	0.0012	
03	N-valeraldehyde	5	100	3.51563E-05	8.84604E-05			
03	o-Xylene	5	100	0.00114	0.00195	0.73	0.002671233	
03	Phenanthrene	5	100	3.6217E-06	1.36893E-05			
03	Propionaldehyde	5	100	5.41341E-05	0.000186716			
03	Pyrene	5	100	9.528E-07	0.000004415			
03	Styrene	5	60	0.000171	0.00394	1	0.00394	
03	Tetrachloroethene	5	60	0.00203	0.00223	0.28	0.007964286	
03	Thallium	5	20	1.4349E-06	1.4349E-06			
03	Tin	5	100	2.4901E-06	7.99445E-06			
03	Toluene	5	100	0.00466	0.00716	5.2	0.001376923	
03	Total Carcinogenic PAHS (BaP TEQs)	5	40	9.612E-10	2.97755E-07			
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	3.3806E-11	2.73846E-10			
03	TOTAL HPCDD	5	100	6.86E-11	1.6169E-09			
03	TOTAL HPCDF	5	100	7.41E-11	2.4938E-09			
03	TOTAL HXCDD	5	100	1.015E-10	2.0554E-09			
03	TOTAL HXCDF	5	100	9.88E-11	3.0145E-09			
03	TOTAL PECDD	5	100	9.88E-11	1.2332E-09			
03	TOTAL PECDF	5	100	1.619E-10	1.9457E-09			
03	TOTAL TCDD	5	100	6.04E-11	7.947E-10			
03	TOTAL TCDF	5	100	2.47E-10	1.6717E-09			
03	Total Trihalomethanes	5	60	0.000166	0.000258			
03	Trichloroethene	5	20	0.000213	0.000213			
03	Trichlorofluoromethane	5	100	0.00113	0.00188	0.73	0.002575342	
03	Vanadium	5	40	8.6166E-06	1.79679E-05			
03	Vinyl Acetate	5	60	0.00219	0.00517	0.21	0.024619048	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	Dieldrin	5	20	1.20909E-05	1.20909E-05	0.00000165	7.327802424	20
03	Dimethylphthalate	5	100	3.396E-07	1.24285E-06			
03	Ethylbenzene	5	100	0.000958	0.00183	0.628074798	0.002913666	
03	Fluoranthene	5	100	1.2901E-06	5.4589E-06			
03	Formaldehyde	5	100	0.001460574	0.003689884	0.0079	0.467073911	
03	Gravimetrics-PM10	5	100	0.027772635	0.073326259			
03	Hexachlorobutadiene	8	25	0.00033	0.000371	0.004095372	0.090590066	
03	Hexaldehyde	5	40	0.000189529	0.000268538			
03	Hexane	5	100	0.00128	0.122	3.079532452	0.039616403	
03	Isobutyl Alcohol	5	60	0.00207	0.00303			
03	Isopropylbenzene	5	20	0.000139	0.000139	5.630201006	2.46883E-05	
03	Lead	5	100	1.03685E-05	7.09313E-05	0.00004	1.77328125	20
03	m,p-Xylenes	5	100	0.00327	0.00536			
03	Manganese (Diet)	5	100	7.5449E-06	0.000018984			
03	Mercury	5	100	2.0778E-06	3.6645E-06			
03	Methacrylaldehyde	5	100	0.000150538	0.000576057			
03	Methyl tert-Butyl Ether	5	60	0.00121	0.0124	0.31185638	0.039761893	
03	Methylcyclohexane	5	80	0.000262	0.00374	0.424477366	0.008810835	
03	Methylene Chloride	5	100	0.000438	0.00132	0.166739632	0.007916534	
03	N-valeraldehyde	5	100	3.51563E-05	8.84604E-05			
03	o-Xylene	5	100	0.00114	0.00195	0.64474935	0.003024431	
03	Phenanthrene	5	100	3.6217E-06	1.36893E-05			
03	Propionaldehyde	5	100	5.41341E-05	0.000186716			
03	Pyrene	5	100	9.528E-07	0.000004415			
03	Styrene	5	60	0.000171	0.00394	7.92238593	0.000497325	
03	Tetrachloroethene	5	60	0.00203	0.00223	0.013022233	0.17124559	
03	Thallium	5	20	1.4349E-06	1.4349E-06			
03	Tin	5	100	2.4901E-06	7.99445E-06			
03	Toluene	5	100	0.00466	0.00716	1.34799501	0.005311592	
03	Total Carcinogenic PAHS (BaP TEQs)	5	40	9.612E-10	2.97755E-07	0.000019	0.0156713	
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	3.3806E-11	2.73846E-10	2.1E-10	1.304028571	20
03	TOTAL HPCDD	5	100	6.86E-11	1.6169E-09			
03	TOTAL HPCDF	5	100	7.41E-11	2.4938E-09			
03	TOTAL HXCDD	5	100	1.015E-10	2.0554E-09			
03	TOTAL HXCDF	5	100	9.88E-11	3.0145E-09			
03	TOTAL PECDD	5	100	9.88E-11	1.2332E-09			
03	TOTAL PECDF	5	100	1.619E-10	1.9457E-09			
03	TOTAL TCDD	5	100	6.04E-11	7.947E-10			
03	TOTAL TCDF	5	100	2.47E-10	1.6717E-09			
03	Total Trihalomethanes	5	60	0.000166	0.000258			
03	Trichloroethene	5	20	0.000213	0.000213	0.005158871	0.041288102	
03	Trichlorofluoromethane	5	100	0.00113	0.00188			
03	Vanadium	5	40	8.6166E-06	1.79679E-05			
03	Vinyl Acetate	5	60	0.00219	0.00517			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
03	Dieldrin	5	20	1.20909E-05	1.20909E-05			
03	Dimethylphthalate	5	100	3.396E-07	1.24285E-06			
03	Ethylbenzene	5	100	0.000958	0.00183			
03	Fluoranthene	5	100	1.2901E-06	5.4589E-06			
03	Formaldehyde	5	100	0.001460574	0.003689884			
03	Gravimetrics-PM10	5	100	0.027772635	0.073326259	0.15	0.488841729	
03	Hexachlorobutadiene	8	25	0.00033	0.000371			
03	Hexaldehyde	5	40	0.000189529	0.000268538			
03	Hexane	5	100	0.00128	0.122			
03	Isobutyl Alcohol	5	60	0.00207	0.00303			
03	Isopropylbenzene	5	20	0.000139	0.000139			
03	Lead	5	100	1.03685E-05	7.09313E-05	0.0015	0.0472875	
03	m,p-Xylenes	5	100	0.00327	0.00536			
03	Manganese (Diet)	5	100	7.5449E-06	0.000018984			
03	Mercury	5	100	2.0778E-06	3.6645E-06			
03	Methacrylaldehyde	5	100	0.000150538	0.000576057			
03	Methyl tert-Butyl Ether	5	60	0.00121	0.0124			
03	Methylcyclohexane	5	80	0.000262	0.00374			
03	Methylene Chloride	5	100	0.000438	0.00132			
03	N-valeraldehyde	5	100	3.51563E-05	8.84604E-05			
03	o-Xylene	5	100	0.00114	0.00195			
03	Phenanthrene	5	100	3.6217E-06	1.36893E-05			
03	Propionaldehyde	5	100	5.41341E-05	0.000186716			
03	Pyrene	5	100	9.528E-07	0.000004415			
03	Styrene	5	60	0.000171	0.00394			
03	Tetrachloroethene	5	60	0.00203	0.00223			
03	Thallium	5	20	1.4349E-06	1.4349E-06			
03	Tin	5	100	2.4901E-06	7.99445E-06			
03	Toluene	5	100	0.00466	0.00716			
03	Total Carcinogenic PAHS (BaP TEQs)	5	40	9.612E-10	2.97755E-07			
03	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	60	3.3806E-11	2.73846E-10			
03	TOTAL HPCDD	5	100	6.86E-11	1.6169E-09			
03	TOTAL HPCDF	5	100	7.41E-11	2.4938E-09			
03	TOTAL HXCDD	5	100	1.015E-10	2.0554E-09			
03	TOTAL HXCDF	5	100	9.88E-11	3.0145E-09			
03	TOTAL PECDD	5	100	9.88E-11	1.2332E-09			
03	TOTAL PECDF	5	100	1.619E-10	1.9457E-09			
03	TOTAL TCDD	5	100	6.04E-11	7.947E-10			
03	TOTAL TCDF	5	100	2.47E-10	1.6717E-09			
03	Total Trihalomethanes	5	60	0.000166	0.000258			
03	Trichloroethene	5	20	0.000213	0.000213			
03	Trichlorofluoromethane	5	100	0.00113	0.00188			
03	Vanadium	5	40	8.6166E-06	1.79679E-05			
03	Vinyl Acetate	5	60	0.00219	0.00517			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	1,1,1-Trichloroethane	5	60	0.000188	0.000255			
04	1,1,2,2-Tetrachloroethane	5	20	0.000293	0.000293	0.000042	6.976190476	20
04	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000508	0.000914			
04	1,1-Dichloroethene	5	40	0.00015	0.000156			
04	1,2,4-Trimethylbenzene	5	80	0.000493	0.00101			
04	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000316	0.000324			
04	1,2-Dichloroethane	5	40	0.000166	0.0002	0.000094	2.127659574	40
04	1,2-Dichloropropane	5	60	0.000931	0.00836	0.00024	34.83333333	60
04	1,3,5-Trimethylbenzene	5	80	0.000126	0.000346			
04	2-Butanone (methyl ethyl ketone)	5	100	0.00126	0.004325			
04	Acetaldehyde	5	100	0.016	0.05485	0.0011	49.86363636	100
04	Acetone	5	100	0.00843	0.02605			
04	Acetonitrile	5	100	0.000399	0.005565			
04	Acetophenone	5	80	0.0106	0.054			
04	Acrolein	5	80	0.000995	0.00258			
04	Acrylonitrile	5	40	0.000344	0.000424	0.000036	11.77777778	40
04	Aluminum	5	40	8.84693E-05	0.000149967			
04	Anthracene	5	40	0.000002663	3.2986E-06			
04	Arsenic	5	80	0.000000252	1.2222E-06	0.00000057	2.144210526	40
04	Barium	5	40	3.2993E-06	4.9311E-06			
04	Benzaldehyde	5	40	0.000281944	0.000325217			
04	Benzene	5	100	0.00046	0.000796	0.00031	2.567741935	100
04	Bis(2-ethylhexyl)phthalate	5	80	5.76087E-05	0.000192998			
04	Bromodichloromethane	5	20	0.000189	0.000189			
04	Bromomethane	5	40	0.000309	0.00031			
04	Butylbenzylphthalate	5	20	8.33333E-05	8.33333E-05			
04	Butyraldehyde	5	40	9.72222E-05	0.000111387			
04	Carbon Disulfide	5	100	0.000211	0.000704			
04	Carbon Tetrachloride	5	100	0.000508	0.000985	0.00016	6.15625	100
04	Chloroform	5	80	0.000243	0.000702	0.00011	6.381818182	80
04	Chloromethane	5	100	0.00138	0.002135	0.0014	1.525	80
04	Chromium	5	100	4.451E-07	3.4626E-06			
04	Crotonaldehyde	5	40	9.72222E-05	9.97222E-05			
04	Cyclohexane	5	60	0.00018	0.000237			
04	Dibenzofuran	5	20	5.178E-07	5.178E-07			
04	Dichlorodifluoromethane (Freon 12)	5	100	0.00128	0.00265			
04	Dimethylphthalate	5	100	3.819E-07	3.0821E-06			
04	Di-n-octylphthalate	5	20	1.5249E-06	1.5249E-06			
04	Ethylbenzene	5	100	0.000427	0.000789	0.00097	0.813402062	
04	Fluoranthene	5	100	3.917E-07	1.2779E-06			
04	Formaldehyde	5	100	0.000436411	0.002527778	0.00019	13.30409368	100
04	Gravimetrics-PM10	5	100	0.018138944	0.044996906			
04	Hexachlorobutadiene	10	20	0.0004	0.000416	0.00011	3.781818182	20
04	Hexaldehyde	5	40	0.000235782	0.000434028			
04	Hexane	5	100	0.00121	0.02655			
04	Isobutyl Alcohol	5	100	0.00143	0.00453			
04	Lead	5	100	9.337E-07	4.4058E-06			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	1,1,1-Trichloroethane	5	60	0.000188	0.000255	5.2	4.90385E-05	
04	1,1,2,2-Tetrachloroethane	5	20	0.000293	0.000293			
04	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000508	0.000914	31	2.94839E-05	
04	1,1-Dichloroethene	5	40	0.00015	0.000156	0.21	0.000742857	
04	1,2,4-Trimethylbenzene	5	80	0.000493	0.00101	0.0073	0.138356164	
04	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000316	0.000324			
04	1,2-Dichloroethane	5	40	0.000166	0.0002	2.5	0.00008	
04	1,2-Dichloropropane	5	60	0.000931	0.00836	0.0042	1.99047619	20
04	1,3,5-Trimethylbenzene	5	80	0.000126	0.000346			
04	2-Butanone (methyl ethyl ketone)	5	100	0.00126	0.004325	5.2	0.000831731	
04	Acetaldehyde	5	100	0.016	0.05485	0.0094	5.835106383	100
04	Acetone	5	100	0.00843	0.02605	32	0.000814063	
04	Acetonitrile	5	100	0.000399	0.005565	0.063	0.088333333	
04	Acetophenone	5	80	0.0106	0.054			
04	Acrolein	5	80	0.000995	0.00258	0.000021	122.8571429	80
04	Acrylonitrile	5	40	0.000344	0.000424	0.0021	0.201904762	
04	Aluminum	5	40	8.84693E-05	0.000149967	0.0052	0.028839885	
04	Anthracene	5	40	0.000002663	3.2986E-06			
04	Arsenic	5	80	0.00000252	1.2222E-06	0.000031	0.039425806	
04	Barium	5	40	3.2993E-06	4.9311E-06	0.00052	0.009482885	
04	Benzaldehyde	5	40	0.000281944	0.000325217			
04	Benzene	5	100	0.00046	0.000796	0.031	0.025677419	
04	Bis(2-ethylhexyl)phthalate	5	80	5.76087E-05	0.000192998			
04	Bromodichloromethane	5	20	0.000189	0.000189			
04	Bromomethane	5	40	0.000309	0.000031	0.0052	0.059615385	
04	Butylbenzylphthalate	5	20	8.33333E-05	8.33333E-05			
04	Butyraldehyde	5	40	9.72222E-05	0.000111387			
04	Carbon Disulfide	5	100	0.000211	0.00704	0.73	0.009643836	
04	Carbon Tetrachloride	5	100	0.000508	0.000985	0.2	0.004925	
04	Chloroform	5	80	0.000243	0.000702	0.1	0.00702	
04	Chloromethane	5	100	0.00138	0.002135	0.094	0.022712766	
04	Chromium	5	100	4.451E-07	3.4626E-06			
04	Crotonaldehyde	5	40	9.72222E-05	9.97222E-05			
04	Cyclohexane	5	60	0.00018	0.000237	6.3	3.7619E-05	
04	Dibenzofuran	5	20	5.178E-07	5.178E-07			
04	Dichlorodifluoromethane (Freon 12)	5	100	0.00128	0.00265	0.21	0.012619048	
04	Dimethylphthalate	5	100	3.819E-07	3.0821E-06			
04	Di-n-octylphthalate	5	20	1.5249E-06	1.5249E-06			
04	Ethylbenzene	5	100	0.000427	0.000789	1	0.000789	
04	Fluoranthene	5	100	3.917E-07	1.2779E-06			
04	Formaldehyde	5	100	0.000436411	0.002527778	0.01	0.25277778	
04	Gravimetrics-PM10	5	100	0.018138944	0.044996906			
04	Hexachlorobutadiene	10	20	0.0004	0.000416			
04	Hexaldehyde	5	40	0.000235782	0.000434028			
04	Hexane	5	100	0.00121	0.02655	0.73	0.036369863	
04	Isobutyl Alcohol	5	100	0.00143	0.00453			
04	Lead	5	100	9.337E-07	4.4058E-06	0.0017	0.002591647	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	1,1,1-Trichloroethane	5	60	0.000188	0.000255	0.006110757	0.041729693	
04	1,1,2,2-Tetrachloroethane	5	20	0.000293	0.000293	0.000686503	0.426800715	
04	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000508	0.000914			
04	1,1-Dichloroethene	5	40	0.00015	0.000156	0.000951598	0.163934849	
04	1,2,4-Trimethylbenzene	5	80	0.000493	0.00101	0.418084233	0.002415781	
04	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000316	0.000324			
04	1,2-Dichloroethane	5	40	0.000166	0.0002	0.02234189	0.008951794	
04	1,2-Dichloropropane	5	60	0.000931	0.00836	0.002911399	2.87147198	40
04	1,3,5-Trimethylbenzene	5	80	0.000126	0.000346	0.13007065	0.002660093	
04	2-Butanone (methyl ethyl ketone)	5	100	0.00126	0.004325	0.313790789	0.013783069	
04	Acetaldehyde	5	100	0.016	0.05485	0.141257881	0.388296918	
04	Acetone	5	100	0.00843	0.02605	8.166831902	0.003189731	
04	Acetonitrile	5	100	0.000399	0.005565	0.027535902	0.202099791	
04	Acetophenone	5	80	0.0106	0.054			
04	Acrolein	5	80	0.000995	0.00258	0.094923681	0.02717973	
04	Acrylonitrile	5	40	0.000344	0.000424	0.035158307	0.012059739	
04	Aluminum	5	40	8.84693E-05	0.000149967			
04	Anthracene	5	40	0.000002663	3.2986E-06			
04	Arsenic	5	80	0.00000252	1.2222E-06	0.00003	0.04074	
04	Barium	5	40	3.2993E-06	4.9311E-06			
04	Benzaldehyde	5	40	0.000281944	0.000325217			
04	Benzene	5	100	0.00046	0.000796	0.0057	0.139649123	
04	Bis(2-ethylhexyl)phthalate	5	80	5.76087E-05	0.000192998			
04	Bromodichloromethane	5	20	0.000189	0.000189			
04	Bromomethane	5	40	0.000309	0.00031			
04	Butylbenzylphthalate	5	20	8.33333E-05	8.33333E-05			
04	Butyraldehyde	5	40	9.72222E-05	0.000111387			
04	Carbon Disulfide	5	100	0.000211	0.00704	0.001120933	6.280485135	40
04	Carbon Tetrachloride	5	100	0.000508	0.000985	0.0007	1.407142857	60
04	Chloroform	5	80	0.000243	0.000702	0.0003	2.34	60
04	Chloromethane	5	100	0.00138	0.002135	0.02465549	0.086593292	
04	Chromium	5	100	4.451E-07	3.4626E-06			
04	Crotonaldehyde	5	40	9.72222E-05	9.97222E-05			
04	Cyclohexane	5	60	0.00018	0.000237	2.49075254	9.5152E-05	
04	Dibenzofuran	5	20	5.178E-07	5.178E-07			
04	Dichlorodifluoromethane (Freon 12)	5	100	0.00128	0.00265			
04	Dimethylphthalate	5	100	3.819E-07	3.0821E-06			
04	Di-n-octylphthalate	5	20	1.5249E-06	1.5249E-06			
04	Ethylbenzene	5	100	0.000427	0.000789	0.628074798	0.00125622	
04	Fluoranthene	5	100	3.917E-07	1.2779E-06			
04	Formaldehyde	5	100	0.000436411	0.002527778	0.0079	0.319971873	
04	Gravimetrics-PM10	5	100	0.018138944	0.044996906			
04	Hexachlorobutadiene	10	20	0.0004	0.000416	0.004095372	0.101578079	
04	Hexaldehyde	5	40	0.000235782	0.000434028			
04	Hexane	5	100	0.00121	0.02655	3.079532452	0.008621439	
04	Isobutyl Alcohol	5	100	0.00143	0.00453			
04	Lead	5	100	9.337E-07	4.4058E-06	0.00004	0.110145	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	1,1,1-Trichloroethane	5	60	0.000188	0.000255			
04	1,1,2,2-Tetrachloroethane	5	20	0.000293	0.000293			
04	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000508	0.000914			
04	1,1-Dichloroethene	5	40	0.00015	0.000156			
04	1,2,4-Trimethylbenzene	5	80	0.000493	0.00101			
04	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000316	0.000324			
04	1,2-Dichloroethane	5	40	0.000166	0.0002			
04	1,2-Dichloropropane	5	60	0.000931	0.00836			
04	1,3,5-Trimethylbenzene	5	80	0.000126	0.000346			
04	2-Butanone (methyl ethyl ketone)	5	100	0.00126	0.004325			
04	Acetaldehyde	5	100	0.016	0.05485			
04	Acetone	5	100	0.00843	0.02605			
04	Acetonitrile	5	100	0.000399	0.005565			
04	Acetophenone	5	80	0.0106	0.054			
04	Acrolein	5	80	0.000995	0.00258			
04	Acrylonitrile	5	40	0.000344	0.000424			
04	Aluminum	5	40	8.84693E-05	0.000149967			
04	Anthracene	5	40	0.000002663	3.2986E-06			
04	Arsenic	5	80	0.000000252	1.2222E-06			
04	Barium	5	40	3.2993E-06	4.9311E-06			
04	Benzaldehyde	5	40	0.000281944	0.000325217			
04	Benzene	5	100	0.00046	0.000796			
04	Bis(2-ethylhexyl)phthalate	5	80	5.76087E-05	0.000192998			
04	Bromodichloromethane	5	20	0.000189	0.000189			
04	Bromomethane	5	40	0.000309	0.00031			
04	Butylbenzylphthalate	5	20	8.33333E-05	8.33333E-05			
04	Butyraldehyde	5	40	9.72222E-05	0.000111387			
04	Carbon Disulfide	5	100	0.000211	0.00704			
04	Carbon Tetrachloride	5	100	0.000508	0.000985			
04	Chloroform	5	80	0.000243	0.000702			
04	Chloromethane	5	100	0.00138	0.002135			
04	Chromium	5	100	4.451E-07	3.4626E-06			
04	Crotonaldehyde	5	40	9.72222E-05	9.97222E-05			
04	Cyclohexane	5	60	0.00018	0.000237			
04	Dibenzofuran	5	20	5.178E-07	5.178E-07			
04	Dichlorodifluoromethane (Freon 12)	5	100	0.00128	0.00265			
04	Dimethylphthalate	5	100	3.819E-07	3.0821E-06			
04	Di-n-octylphthalate	5	20	1.5249E-06	1.5249E-06			
04	Ethylbenzene	5	100	0.000427	0.000789			
04	Fluoranthene	5	100	3.917E-07	1.2779E-06			
04	Formaldehyde	5	100	0.000436411	0.002527778			
04	Gravimetrics-PM10	5	100	0.018138944	0.044996906	0.15	0.299979376	
04	Hexachlorobutadiene	10	20	0.0004	0.000416			
04	Hexaldehyde	5	40	0.000235782	0.000434028			
04	Hexane	5	100	0.00121	0.02655			
04	Isobutyl Alcohol	5	100	0.00143	0.00453			
04	Lead	5	100	9.337E-07	4.4058E-06	0.0015	0.0029372	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	m,p-Xylenes	5	100	0.00138	0.00258			
04	Manganese (Diet)	5	20	2.4365E-06	2.4365E-06			
04	Mercury	5	100	1.1874E-06	1.80435E-06			
04	Methacrylaldehyde	5	80	5.70558E-05	9.10606E-05			
04	Methyl Acetate	5	20	0.00032	0.00032			
04	Methyl tert-Butyl Ether	5	100	0.000651	0.00105	0.0094	0.111702128	
04	Methylcyclohexane	5	40	0.000248	0.000265			
04	Methylene Chloride	5	100	0.000305	0.000634	0.0052	0.121923077	
04	Naphthalene	5	20	6.315E-07	6.315E-07	0.000072	0.008770833	
04	N-valeraldehyde	5	100	2.08188E-05	0.000391667			
04	o-Xylene	5	80	0.00056	0.00104			
04	Phenanthrene	5	60	2.6187E-06	3.7318E-06			
04	Propionaldehyde	5	100	2.70035E-05	0.000104069			
04	Pyrene	5	100	3.025E-07	0.000000846			
04	Styrene	5	80	0.000117	0.000282			
04	Tetrachloroethene	5	80	0.00179	0.00311	0.00041	7.585365854	80
04	Toluene	5	100	0.00194	0.00356			
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	20	1.979E-12	1.979E-12	6.4E-11	0.030921875	
04	TOTAL HPCDD	5	100	3.81E-11	3.166E-10			
04	TOTAL HPCDF	5	100	2.87E-11	1.784E-10			
04	TOTAL HXCDD	5	100	5.7E-12	1.41E-10			
04	TOTAL HXCDF	5	100	3.16E-11	1.727E-10			
04	TOTAL PECDD	5	60	1.24E-11	6.33E-11			
04	TOTAL PECDF	5	100	7.9E-12	1.353E-10			
04	TOTAL TCDD	5	80	1.78E-11	4.32E-11			
04	TOTAL TCDF	5	100	4.76E-11	2.561E-10			
04	Total Trihalomethanes	5	80	0.000243	0.000702			
04	Trichlorofluoromethane	5	100	0.00131	0.002315			
04	Vinyl Acetate	5	100	0.000609	0.00308			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	m,p-Xylenes	5	100	0.00138	0.00258	0.1	0.0258	
04	Manganese (Diet)	5	20	2.4365E-06	2.4365E-06			
04	Mercury	5	100	1.1874E-06	1.80435E-06	0.00031	0.005820484	
04	Methacrylaldehyde	5	80	5.70558E-05	9.10606E-05			
04	Methyl Acetate	5	20	0.00032	0.00032			
04	Methyl tert-Butyl Ether	5	100	0.000651	0.00105	3.1	0.00033871	
04	Methylcyclohexane	5	40	0.000248	0.000265	3.1	8.54839E-05	
04	Methylene Chloride	5	100	0.000305	0.000634	1.1	0.000576364	
04	Naphthalene	5	20	6.315E-07	6.315E-07	0.0031	0.00020371	
04	N-valeraldehyde	5	100	2.08188E-05	0.000391667			
04	o-Xylene	5	80	0.00056	0.00104	0.73	0.001424658	
04	Phenanthrene	5	60	2.6187E-06	3.7318E-06			
04	Propionaldehyde	5	100	2.70035E-05	0.000104069			
04	Pyrene	5	100	3.025E-07	0.000000846			
04	Styrene	5	80	0.000117	0.000282	1	0.000282	
04	Tetrachloroethene	5	80	0.00179	0.00311	0.28	0.011107143	
04	Toluene	5	100	0.00194	0.00356	5.2	0.000684615	
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	20	1.979E-12	1.979E-12			
04	TOTAL HPCDD	5	100	3.81E-11	3.166E-10			
04	TOTAL HPCDF	5	100	2.87E-11	1.784E-10			
04	TOTAL HXCDD	5	100	5.7E-12	1.41E-10			
04	TOTAL HXCDF	5	100	3.16E-11	1.727E-10			
04	TOTAL PECDD	5	60	1.24E-11	6.33E-11			
04	TOTAL PECDF	5	100	7.9E-12	1.353E-10			
04	TOTAL TCDD	5	80	1.78E-11	4.32E-11			
04	TOTAL TCDF	5	100	4.76E-11	2.561E-10			
04	Total Trihalomethanes	5	80	0.000243	0.000702			
04	Trichlorofluoromethane	5	100	0.00131	0.002315	0.73	0.003171233	
04	Vinyl Acetate	5	100	0.000609	0.00308	0.21	0.014666667	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	m,p-Xylenes	5	100	0.00138	0.00258			
04	Manganese (Diet)	5	20	2.4365E-06	2.4365E-06			
04	Mercury	5	100	1.1874E-06	1.80435E-06			
04	Methacrylaldehyde	5	80	5.70558E-05	9.10606E-05			
04	Methyl Acetate	5	20	0.00032	0.00032			
04	Methyl tert-Butyl Ether	5	100	0.000651	0.00105	0.31185638	0.003366934	
04	Methylcyclohexane	5	40	0.000248	0.000265	0.424477366	0.000624297	
04	Methylene Chloride	5	100	0.000305	0.000634	0.166739632	0.003802335	
04	Naphthalene	5	20	6.315E-07	6.315E-07	0.000199	0.003173367	
04	N-valeraldehyde	5	100	2.08188E-05	0.000391667			
04	o-Xylene	5	80	0.00056	0.00104	0.64474935	0.00161303	
04	Phenanthrene	5	60	2.6187E-06	3.7318E-06			
04	Propionaldehyde	5	100	2.70035E-05	0.000104069			
04	Pyrene	5	100	3.025E-07	0.00000846			
04	Styrene	5	80	0.000117	0.000282	7.92238593	3.55953E-05	
04	Tetrachloroethene	5	80	0.00179	0.00311	0.013022233	0.238822326	
04	Toluene	5	100	0.00194	0.00356	1.34799501	0.002640959	
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	20	1.979E-12	1.979E-12	2.1E-10	0.00942381	
04	TOTAL HPCDD	5	100	3.81E-11	3.166E-10			
04	TOTAL HPCDF	5	100	2.87E-11	1.784E-10			
04	TOTAL HXCDD	5	100	5.7E-12	1.41E-10			
04	TOTAL HXCDF	5	100	3.16E-11	1.727E-10			
04	TOTAL PECDD	5	60	1.24E-11	6.33E-11			
04	TOTAL PECDF	5	100	7.9E-12	1.353E-10			
04	TOTAL TCDD	5	80	1.78E-11	4.32E-11			
04	TOTAL TCDF	5	100	4.76E-11	2.561E-10			
04	Total Trihalomethanes	5	80	0.000243	0.000702			
04	Trichlorofluoromethane	5	100	0.00131	0.002315			
04	Vinyl Acetate	5	100	0.000609	0.00308			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
04	m,p-Xylenes	5	100	0.00138	0.00258			
04	Manganese (Diet)	5	20	2.4365E-06	2.4365E-06			
04	Mercury	5	100	1.1874E-06	1.80435E-06			
04	Methacrylaldehyde	5	80	5.70558E-05	9.10606E-05			
04	Methyl Acetate	5	20	0.00032	0.00032			
04	Methyl tert-Butyl Ether	5	100	0.000651	0.00105			
04	Methylcyclohexane	5	40	0.000248	0.000265			
04	Methylene Chloride	5	100	0.000305	0.000634			
04	Naphthalene	5	20	6.315E-07	6.315E-07			
04	N-valeraldehyde	5	100	2.08188E-05	0.000391667			
04	o-Xylene	5	80	0.00056	0.00104			
04	Phenanthrene	5	60	2.6187E-06	3.7318E-06			
04	Propionaldehyde	5	100	2.70035E-05	0.000104069			
04	Pyrene	5	100	3.025E-07	0.000000846			
04	Styrene	5	80	0.000117	0.000282			
04	Tetrachloroethene	5	80	0.00179	0.00311			
04	Toluene	5	100	0.00194	0.00356			
04	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	20	1.979E-12	1.979E-12			
04	TOTAL HPCDD	5	100	3.81E-11	3.166E-10			
04	TOTAL HPCDF	5	100	2.87E-11	1.784E-10			
04	TOTAL HXCDD	5	100	5.7E-12	1.41E-10			
04	TOTAL HXCDF	5	100	3.16E-11	1.727E-10			
04	TOTAL PECDD	5	60	1.24E-11	6.33E-11			
04	TOTAL PECDF	5	100	7.9E-12	1.353E-10			
04	TOTAL TCDD	5	80	1.78E-11	4.32E-11			
04	TOTAL TCDF	5	100	4.76E-11	2.561E-10			
04	Total Trihalomethanes	5	80	0.000243	0.000702			
04	Trichlorofluoromethane	5	100	0.00131	0.002315			
04	Vinyl Acetate	5	100	0.000609	0.00308			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,1,1-Trichloroethane	5	60	0.000173	0.000255			
05	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000542	0.000912			
05	1,1-Dichloroethene	5	20	0.000163	0.000163			
05	1,2,4-Trimethylbenzene	5	100	0.000403	0.00135			
05	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000276	0.000373			
05	1,2-Dichlorobenzene	5	20	0.0002	0.0002			
05	1,2-Dichloroethane	5	40	0.000183	0.000186	0.000094	1.978723404	40
05	1,2-Dichloropropane	5	80	0.00368	0.00859	0.00024	35.79166667	80
05	1,3,5-Trimethylbenzene	5	80	0.000143	0.000375			
05	1,3-Butadiene	5	20	0.000515	0.000515	0.000081	6.358024691	20
05	1,4-Dichlorobenzene	5	20	0.000285	0.000285	0.00022	1.295454545	20
05	2,4-Dimethylphenol	4	50	6.271E-07	8.415E-07			
05	2-Butanone (methyl ethyl ketone)	5	100	0.00193	0.00535			
05	2-Methylphenol (o-Cresol)	3	66.67	6.713E-07	0.00000732			
05	3&4-Methylphenol	3	33.33	2.2595E-06	2.2595E-06			
05	4-Chloro-3-Methylphenol	3	33.33	2.4452E-06	2.4452E-06			
05	4-Nitrophenol	3	33.33	0.000003542	0.000003542			
05	Acetaldehyde	5	100	0.018896875	0.0487	0.0011	44.27272727	100
05	Acetone	5	100	0.0122	0.0373			
05	Acetonitrile	5	100	0.000477	0.00382			
05	Acetophenone	5	100	0.0172	0.0593			
05	Acrolein	5	100	0.00155	0.00333			
05	Acrylonitrile	5	60	0.000322	0.000615	0.000036	17.08333333	60
05	Aluminum	5	100	0.000290617	0.002254603			
05	Anthracene	3	33.33	3.2206E-06	3.2206E-06			
05	Antimony	5	40	7.1832E-06	1.08497E-05			
05	Arsenic	5	80	1.4936E-06	2.9318E-06	0.00000057	5.143508772	80
05	Barium	5	100	6.2092E-06	2.29747E-05			
05	Benzaldehyde	5	80	0.000251042	0.000515544			
05	Benzene	5	100	0.000457	0.0016	0.00031	5.161290323	100
05	Beryllium	5	60	1.624E-07	0.000000318	0.000001	0.318	
05	Bromodichloromethane	5	20	0.000204	0.000204			
05	Bromomethane	5	40	0.000336	0.000375			
05	Butyraldehyde	5	80	5.19174E-05	0.000187231			
05	Cadmium (Diet)	5	80	2.177E-07	7.805E-07			
05	Carbazole	3	33.33	2.888E-07	2.888E-07			
05	Carbon Disulfide	5	100	0.00111	0.00833			
05	Carbon Tetrachloride	5	100	0.000474	0.000913	0.00016	5.70625	100
05	Chloroethane	5	20	0.000268	0.000268			
05	Chloroform	5	80	0.000173	0.000311	0.00011	2.827272727	80
05	Chloromethane	5	100	0.00146	0.00194	0.0014	1.385714286	100
05	Chromium	5	100	1.4362E-06	7.2402E-06			
05	cis-1,3-Dichloropropene	5	60	0.000322	0.00228			
05	Cobalt	5	80	1.512E-07	2.816E-07			
05	Crotonaldehyde	5	20	0.000129032	0.000129032			
05	Cyclohexane	5	60	0.000393	0.000779			
05	Dibenzofuran	3	66.67	7.5825E-07	8.842E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,1,1-Trichloroethane	5	60	0.000173	0.000255	5.2	4.90385E-05	
05	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000542	0.000912	31	2.94194E-05	
05	1,1-Dichloroethene	5	20	0.000163	0.000163	0.21	0.00077619	
05	1,2,4-Trimethylbenzene	5	100	0.000403	0.00135	0.0073	0.184931507	
05	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000276	0.000373			
05	1,2-Dichlorobenzene	5	20	0.0002	0.0002	0.21	0.000952381	
05	1,2-Dichloroethane	5	40	0.000183	0.000186	2.5	0.0000744	
05	1,2-Dichloropropane	5	80	0.00368	0.00859	0.0042	2.045238095	60
05	1,3,5-Trimethylbenzene	5	80	0.000143	0.000375			
05	1,3-Butadiene	5	20	0.000515	0.000515	0.0021	0.245238095	
05	1,4-Dichlorobenzene	5	20	0.000285	0.000285	0.83	0.000343373	
05	2,4-Dimethylphenol	4	50	6.271E-07	8.415E-07			
05	2-Butanone (methyl ethyl ketone)	5	100	0.00193	0.00535	5.2	0.001028846	
05	2-Methylphenol (o-Cresol)	3	66.67	6.713E-07	0.00000732			
05	3&4-Methylphenol	3	33.33	2.2595E-06	2.2595E-06			
05	4-Chloro-3-Methylphenol	3	33.33	2.4452E-06	2.4452E-06			
05	4-Nitrophenol	3	33.33	0.00003542	0.00003542			
05	Acetaldehyde	5	100	0.018896875	0.0487	0.0094	5.180851064	100
05	Acetone	5	100	0.0122	0.0373	32	0.001165625	
05	Acetonitrile	5	100	0.000477	0.00382	0.063	0.060634921	
05	Acetophenone	5	100	0.0172	0.0593			
05	Acrolein	5	100	0.00155	0.00333	0.000021	158.5714286	100
05	Acrylonitrile	5	60	0.000322	0.000615	0.0021	0.292857143	
05	Aluminum	5	100	0.000290617	0.002254603	0.0052	0.4335775	
05	Anthracene	3	33.33	3.2206E-06	3.2206E-06			
05	Antimony	5	40	7.1832E-06	1.08497E-05			
05	Arsenic	5	80	1.4936E-06	2.9318E-06	0.000031	0.094574194	
05	Barium	5	100	6.2092E-06	2.29747E-05	0.00052	0.044182115	
05	Benzaldehyde	5	80	0.000251042	0.000515544			
05	Benzene	5	100	0.000457	0.0016	0.031	0.051612903	
05	Beryllium	5	60	1.624E-07	0.00000318	0.000021	0.015142857	
05	Bromodichloromethane	5	20	0.000204	0.000204			
05	Bromomethane	5	40	0.000336	0.000375	0.0052	0.072115385	
05	Butyraldehyde	5	80	5.19174E-05	0.000187231			
05	Cadmium (Diet)	5	80	2.177E-07	7.805E-07			
05	Carbazole	3	33.33	2.888E-07	2.888E-07			
05	Carbon Disulfide	5	100	0.00111	0.00833	0.73	0.011410959	
05	Carbon Tetrachloride	5	100	0.000474	0.000913	0.2	0.004565	
05	Chloroethane	5	20	0.000268	0.000268	10	0.0000268	
05	Chloroform	5	80	0.000173	0.000311	0.1	0.00311	
05	Chloromethane	5	100	0.00146	0.00194	0.094	0.020638298	
05	Chromium	5	100	1.4362E-06	7.2402E-06			
05	cis-1,3-Dichloropropene	5	60	0.000322	0.00228			
05	Cobalt	5	80	1.512E-07	2.816E-07			
05	Crotonaldehyde	5	20	0.000129032	0.000129032			
05	Cyclohexane	5	60	0.000393	0.000779	6.3	0.000123651	
05	Dibenzofuran	3	66.67	7.5825E-07	8.842E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,1,1-Trichloroethane	5	60	0.000173	0.000255	0.006110757	0.041729693	
05	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000542	0.000912			
05	1,1-Dichloroethene	5	20	0.000163	0.000163	0.000951598	0.1712909	
05	1,2,4-Trimethylbenzene	5	100	0.000403	0.00135	0.418084233	0.003229014	
05	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000276	0.000373			
05	1,2-Dichlorobenzene	5	20	0.0002	0.0002			
05	1,2-Dichloroethane	5	40	0.000183	0.000186	0.02234189	0.008325169	
05	1,2-Dichloropropane	5	80	0.00368	0.00859	0.002911399	2.950471807	80
05	1,3,5-Trimethylbenzene	5	80	0.000143	0.000375	0.13007065	0.002883049	
05	1,3-Butadiene	5	20	0.000515	0.000515	0.248840723	0.002069597	
05	1,4-Dichlorobenzene	5	20	0.000285	0.000285	0.032466258	0.008778345	
05	2,4-Dimethylphenol	4	50	6.271E-07	8.415E-07			
05	2-Butanone (methyl ethyl ketone)	5	100	0.00193	0.00535	0.313790789	0.017049576	
05	2-Methylphenol (o-Cresol)	3	66.67	6.713E-07	0.00000732			
05	3&4-Methylphenol	3	33.33	2.2595E-06	2.2595E-06			
05	4-Chloro-3-Methylphenol	3	33.33	2.4452E-06	2.4452E-06			
05	4-Nitrophenol	3	33.33	0.000003542	0.000003542			
05	Acetaldehyde	5	100	0.018896875	0.0487	0.141257881	0.344759524	
05	Acetone	5	100	0.0122	0.0373	8.166831902	0.004567255	
05	Acetonitrile	5	100	0.000477	0.00382	0.027535902	0.138727979	
05	Acetophenone	5	100	0.0172	0.0593			
05	Acrolein	5	100	0.00155	0.00333	0.094923681	0.035080814	
05	Acrylonitrile	5	60	0.000322	0.000615	0.035158307	0.01749231	
05	Aluminum	5	100	0.000290617	0.002254603			
05	Anthracene	3	33.33	3.2206E-06	3.2206E-06			
05	Antimony	5	40	7.1832E-06	1.08497E-05			
05	Arsenic	5	80	1.4936E-06	2.9318E-06	0.00003	0.097726667	
05	Barium	5	100	6.2092E-06	2.29747E-05			
05	Benzaldehyde	5	80	0.000251042	0.000515544			
05	Benzene	5	100	0.000457	0.0016	0.0057	0.280701754	
05	Beryllium	5	60	1.624E-07	0.000000318			
05	Bromodichloromethane	5	20	0.000204	0.000204			
05	Bromomethane	5	40	0.000336	0.000375			
05	Butyraldehyde	5	80	5.19174E-05	0.000187231			
05	Cadmium (Diet)	5	80	2.177E-07	7.805E-07			
05	Carbazole	3	33.33	2.888E-07	2.888E-07			
05	Carbon Disulfide	5	100	0.00111	0.00833	0.001120933	7.431312667	80
05	Carbon Tetrachloride	5	100	0.000474	0.000913	0.0007	1.304285714	60
05	Chloroethane	5	20	0.000268	0.000268	0.008528118	0.031425457	
05	Chloroform	5	80	0.000173	0.000311	0.0003	1.036666667	20
05	Chloromethane	5	100	0.00146	0.00194	0.02465549	0.078684303	
05	Chromium	5	100	1.4362E-06	7.2402E-06			
05	cis-1,3-Dichloropropene	5	60	0.000322	0.00228			
05	Cobalt	5	80	1.512E-07	2.816E-07			
05	Crotonaldehyde	5	20	0.000129032	0.000129032			
05	Cyclohexane	5	60	0.000393	0.000779	2.49075254	0.000312757	
05	Dibenzofuran	3	66.67	7.5825E-07	8.842E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	1,1,1-Trichloroethane	5	60	0.000173	0.000255			
05	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000542	0.000912			
05	1,1-Dichloroethene	5	20	0.000163	0.000163			
05	1,2,4-Trimethylbenzene	5	100	0.000403	0.00135			
05	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000276	0.000373			
05	1,2-Dichlorobenzene	5	20	0.0002	0.0002			
05	1,2-Dichloroethane	5	40	0.000183	0.000186			
05	1,2-Dichloropropane	5	80	0.00368	0.00859			
05	1,3,5-Trimethylbenzene	5	80	0.000143	0.000375			
05	1,3-Butadiene	5	20	0.000515	0.000515			
05	1,4-Dichlorobenzene	5	20	0.000285	0.000285			
05	2,4-Dimethylphenol	4	50	6.271E-07	8.415E-07			
05	2-Butanone (methyl ethyl ketone)	5	100	0.00193	0.00535			
05	2-Methylphenol (o-Cresol)	3	66.67	6.713E-07	0.00000732			
05	3&4-Methylphenol	3	33.33	2.2595E-06	2.2595E-06			
05	4-Chloro-3-Methylphenol	3	33.33	2.4452E-06	2.4452E-06			
05	4-Nitrophenol	3	33.33	0.000003542	0.000003542			
05	Acetaldehyde	5	100	0.018896875	0.0487			
05	Acetone	5	100	0.0122	0.0373			
05	Acetonitrile	5	100	0.000477	0.00382			
05	Acetophenone	5	100	0.0172	0.0593			
05	Acrolein	5	100	0.00155	0.00333			
05	Acrylonitrile	5	60	0.000322	0.000615			
05	Aluminum	5	100	0.000290617	0.002254603			
05	Anthracene	3	33.33	3.2206E-06	3.2206E-06			
05	Antimony	5	40	7.1832E-06	1.08497E-05			
05	Arsenic	5	80	1.4936E-06	2.9318E-06			
05	Barium	5	100	6.2092E-06	2.29747E-05			
05	Benzaldehyde	5	80	0.000251042	0.000515544			
05	Benzene	5	100	0.000457	0.0016			
05	Beryllium	5	60	1.624E-07	0.000000318			
05	Bromodichloromethane	5	20	0.000204	0.000204			
05	Bromomethane	5	40	0.000336	0.000375			
05	Butyraldehyde	5	80	5.19174E-05	0.000187231			
05	Cadmium (Diet)	5	80	2.177E-07	7.805E-07			
05	Carbazole	3	33.33	2.888E-07	2.888E-07			
05	Carbon Disulfide	5	100	0.00111	0.00833			
05	Carbon Tetrachloride	5	100	0.000474	0.000913			
05	Chloroethane	5	20	0.000268	0.000268			
05	Chloroform	5	80	0.000173	0.000311			
05	Chloromethane	5	100	0.00146	0.00194			
05	Chromium	5	100	1.4362E-06	7.2402E-06			
05	cis-1,3-Dichloropropene	5	60	0.000322	0.00228			
05	Cobalt	5	80	1.512E-07	2.816E-07			
05	Crotonaldehyde	5	20	0.000129032	0.000129032			
05	Cyclohexane	5	60	0.000393	0.000779			
05	Dibenzofuran	3	66.67	7.5825E-07	8.842E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Dibromomethane	5	20	0.000253	0.000253			
05	Dichlorodifluoromethane (Freon 12)	5	100	0.00153	0.00231			
05	Dieldrin	5	20	0.00000337	0.00000337	0.00000053	6.358490566	20
05	Diethylphthalate	4	25	0.000184192	0.000184192			
05	Dimethylphthalate	3	100	0.000000458	9.018E-07			
05	Di-n-octylphthalate	3	33.33	2.3979E-06	2.3979E-06			
05	Endosulfan Sulfate	5	40	7.6404E-06	8.9746E-06			
05	Ethylbenzene	5	100	0.000376	0.00131	0.00097	1.350515464	20
05	Fluoranthene	4	100	8.081E-07	2.1557E-06			
05	Formaldehyde	5	100	0.000910494	0.004542664	0.00019	23.90875895	100
05	Gravimetrics-PM10	5	100	0.032396008	0.097470887			
05	Hexachlorobutadiene	8	37.5	0.00027	0.000424	0.00011	3.854545455	37.5
05	Hexaldehyde	5	20	0.00026231	0.00026231			
05	Hexane	5	100	0.00412	0.0164			
05	Isobutyl Alcohol	5	100	0.00146	0.0139			
05	Isopropylbenzene	5	20	0.00024	0.00024			
05	Lead	5	100	3.4826E-06	2.04816E-05			
05	m,p-Xylenes	5	100	0.00111	0.00399			
05	Manganese (Diet)	5	100	0.000007829	3.71131E-05			
05	Mercury	5	100	5.064E-07	1.5609E-06			
05	Methacrylaldehyde	5	100	2.37876E-05	0.000245692			
05	Methyl tert-Butyl Ether	5	100	0.00056	0.00182	0.0094	0.193617021	
05	Methylcyclohexane	5	60	0.00023	0.00041			
05	Methylene Chloride	5	100	0.000444	0.00115	0.0052	0.221153846	
05	Naphthalene	4	25	7.206E-07	7.206E-07	0.000072	0.010008333	
05	Nitrobenzene	3	66.67	3.136E-07	0.00000609			
05	N-valeraldehyde	5	100	2.63117E-05	0.00006438			
05	o-Xylene	5	100	0.000464	0.00148			
05	Phenanthrene	4	75	3.1913E-06	5.2515E-06			
05	Phenol	4	25	1.1389E-06	1.1389E-06			
05	Propionaldehyde	5	100	2.83951E-05	0.000137354			
05	Pyrene	4	100	6.002E-07	1.4443E-06			
05	Styrene	5	80	0.00023	0.000654			
05	Tetrachloroethene	5	80	0.00147	0.00278	0.00041	6.780487805	80
05	Tin	5	40	2.5021E-06	3.3978E-06			
05	Toluene	5	100	0.00216	0.00593			
05	Total Carcinogenic PAHS (BaP TEQs)	4	100	3.438E-10	4.802E-07	0.00000087	0.551954023	
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	2.652E-11	3.67568E-10	6.4E-11	5.74325	80
05	TOTAL HPCDD	5	100	2.776E-10	2.8249E-09			
05	TOTAL HPCDF	5	100	2.776E-10	2.8249E-09			
05	TOTAL HXCDD	5	100	4.997E-10	3.9548E-09			
05	TOTAL HXCDF	5	100	4.719E-10	3.9548E-09			
05	TOTAL PECDD	5	100	4.442E-10	2.8249E-09			
05	TOTAL PECDF	5	100	5.552E-10	3.1073E-09			
05	TOTAL TCDD	5	100	4.424E-10	1.4124E-09			
05	TOTAL TCDF	5	100	4.442E-10	2.2316E-09			
05	Total Trihalomethanes	5	80	0.000173	0.000515			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Dibromomethane	5	20	0.000253	0.000253			
05	Dichlorodifluoromethane (Freon 12)	5	100	0.00153	0.00231	0.21	0.011	
05	Dieldrin	5	20	0.00000337	0.00000337			
05	Diethylphthalate	4	25	0.000184192	0.000184192			
05	Dimethylphthalate	3	100	0.000000458	9.018E-07			
05	Di-n-octylphthalate	3	33.33	2.3979E-06	2.3979E-06			
05	Endosulfan Sulfate	5	40	7.6404E-06	8.9746E-06			
05	Ethylbenzene	5	100	0.000376	0.00131	1	0.00131	
05	Fluoranthene	4	100	8.081E-07	2.1557E-06			
05	Formaldehyde	5	100	0.000910494	0.004542664	0.01	0.45426642	
05	Gravimetrics-PM10	5	100	0.032396008	0.097470887			
05	Hexachlorobutadiene	8	37.5	0.00027	0.000424			
05	Hexaldehyde	5	20	0.00026231	0.00026231			
05	Hexane	5	100	0.00412	0.0164	0.73	0.022465753	
05	Isobutyl Alcohol	5	100	0.00146	0.0139			
05	Isopropylbenzene	5	20	0.00024	0.00024	0.42	0.000571429	
05	Lead	5	100	3.4826E-06	2.04816E-05	0.0017	0.012048	
05	m,p-Xylenes	5	100	0.00111	0.00399	0.1	0.0399	
05	Manganese (Diet)	5	100	0.000007829	3.71131E-05			
05	Mercury	5	100	5.064E-07	1.5609E-06	0.00031	0.005035161	
05	Methacrylaldehyde	5	100	2.37876E-05	0.000245692			
05	Methyl tert-Butyl Ether	5	100	0.00056	0.00182	3.1	0.000587097	
05	Methylcyclohexane	5	60	0.00023	0.00041	3.1	0.000132258	
05	Methylene Chloride	5	100	0.000444	0.00115	1.1	0.001045455	
05	Naphthalene	4	25	7.206E-07	7.206E-07	0.0031	0.000232452	
05	Nitrobenzene	3	66.67	3.136E-07	0.000000609	0.0021	0.00029	
05	N-valeraldehyde	5	100	2.63117E-05	0.00006438			
05	o-Xylene	5	100	0.000464	0.00148	0.73	0.002027397	
05	Phenanthrene	4	75	3.1913E-06	5.2515E-06			
05	Phenol	4	25	1.1389E-06	1.1389E-06	0.21	5.42333E-06	
05	Propionaldehyde	5	100	2.83951E-05	0.000137354			
05	Pyrene	4	100	6.002E-07	1.4443E-06			
05	Styrene	5	80	0.00023	0.000654	1	0.000654	
05	Tetrachloroethene	5	80	0.00147	0.00278	0.28	0.009928571	
05	Tin	5	40	2.5021E-06	3.3978E-06			
05	Toluene	5	100	0.00216	0.00593	5.2	0.001140385	
05	Total Carcinogenic PAHs (BaP TEQs)	4	100	3.438E-10	4.802E-07			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	2.652E-11	3.67568E-10			
05	TOTAL HPCDD	5	100	2.776E-10	2.8249E-09			
05	TOTAL HPCDF	5	100	2.776E-10	2.8249E-09			
05	TOTAL HXCDD	5	100	4.997E-10	3.9548E-09			
05	TOTAL HXCDF	5	100	4.719E-10	3.9548E-09			
05	TOTAL PECDD	5	100	4.442E-10	2.8249E-09			
05	TOTAL PECDF	5	100	5.552E-10	3.1073E-09			
05	TOTAL TCDD	5	100	4.424E-10	1.4124E-09			
05	TOTAL TCDF	5	100	4.442E-10	2.2316E-09			
05	Total Trihalomethanes	5	80	0.000173	0.000515			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Dibromomethane	5	20	0.000253	0.000253			
05	Dichlorodifluoromethane (Freon 12)	5	100	0.00153	0.00231			
05	Dieldrin	5	20	0.00000337	0.00000337	0.00000165	2.042424242	20
05	Diethylphthalate	4	25	0.000184192	0.000184192			
05	Dimethylphthalate	3	100	0.00000458	9.018E-07			
05	Di-n-octylphthalate	3	33.33	2.3979E-06	2.3979E-06			
05	Endosulfan Sulfate	5	40	7.6404E-06	8.9746E-06			
05	Ethylbenzene	5	100	0.000376	0.00131	0.628074798	0.002085739	
05	Fluoranthene	4	100	8.081E-07	2.1557E-06			
05	Formaldehyde	5	100	0.000910494	0.004542664	0.0079	0.575020785	
05	Gravimetrics-PM10	5	100	0.032396008	0.097470887			
05	Hexachlorobutadiene	8	37.5	0.00027	0.000424	0.004095372	0.103531504	
05	Hexaldehyde	5	20	0.00026231	0.00026231			
05	Hexane	5	100	0.00412	0.0164	3.079532452	0.005325484	
05	Isobutyl Alcohol	5	100	0.00146	0.0139			
05	Isopropylbenzene	5	20	0.00024	0.00024	5.630201006	4.26273E-05	
05	Lead	5	100	3.4826E-06	2.04816E-05	0.00004	0.51204	
05	m,p-Xylenes	5	100	0.00111	0.00399			
05	Manganese (Diet)	5	100	0.000007829	3.71131E-05			
05	Mercury	5	100	5.064E-07	1.5609E-06			
05	Methacrylaldehyde	5	100	2.37876E-05	0.000245692			
05	Methyl tert-Butyl Ether	5	100	0.00056	0.00182	0.31185638	0.00583602	
05	Methylcyclohexane	5	60	0.00023	0.00041	0.424477366	0.000965894	
05	Methylene Chloride	5	100	0.000444	0.00115	0.166739632	0.006896981	
05	Naphthalene	4	25	7.206E-07	7.206E-07	0.000199	0.003621106	
05	Nitrobenzene	3	66.67	3.136E-07	0.00000609			
05	N-valeraldehyde	5	100	2.63117E-05	0.00006438			
05	o-Xylene	5	100	0.000464	0.00148	0.64474935	0.002295466	
05	Phenanthrene	4	75	3.1913E-06	5.2515E-06			
05	Phenol	4	25	1.1389E-06	1.1389E-06			
05	Propionaldehyde	5	100	2.83951E-05	0.000137354			
05	Pyrene	4	100	6.002E-07	1.4443E-06			
05	Styrene	5	80	0.00023	0.000654	7.92238593	8.25509E-05	
05	Tetrachloroethene	5	80	0.00147	0.00278	0.013022233	0.21348105	
05	Tin	5	40	2.5021E-06	3.3978E-06			
05	Toluene	5	100	0.00216	0.00593	1.34799501	0.004399126	
05	Total Carcinogenic PAHS (BaP TEQs)	4	100	3.438E-10	4.802E-07	0.000019	0.025273684	
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	2.652E-11	3.67568E-10	2.1E-10	1.75032381	40
05	TOTAL HPCDD	5	100	2.776E-10	2.8249E-09			
05	TOTAL HPCDF	5	100	2.776E-10	2.8249E-09			
05	TOTAL HXCDD	5	100	4.997E-10	3.9548E-09			
05	TOTAL HXCDF	5	100	4.719E-10	3.9548E-09			
05	TOTAL PECDD	5	100	4.442E-10	2.8249E-09			
05	TOTAL PECDF	5	100	5.552E-10	3.1073E-09			
05	TOTAL TCDD	5	100	4.424E-10	1.4124E-09			
05	TOTAL TCDF	5	100	4.442E-10	2.2316E-09			
05	Total Trihalomethanes	5	80	0.000173	0.000515			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	Dibromomethane	5	20	0.000253	0.000253			
05	Dichlorodifluoromethane (Freon 12)	5	100	0.00153	0.00231			
05	Dieldrin	5	20	0.00000337	0.00000337			
05	Diethylphthalate	4	25	0.000184192	0.000184192			
05	Dimethylphthalate	3	100	0.00000458	9.018E-07			
05	Di-n-octylphthalate	3	33.33	2.3979E-06	2.3979E-06			
05	Endosulfan Sulfate	5	40	7.6404E-06	8.9746E-06			
05	Ethylbenzene	5	100	0.000376	0.00131			
05	Fluoranthene	4	100	8.081E-07	2.1557E-06			
05	Formaldehyde	5	100	0.000910494	0.004542664			
05	Gravimetrics-PM10	5	100	0.032396008	0.097470887	0.15	0.649805913	
05	Hexachlorobutadiene	8	37.5	0.00027	0.000424			
05	Hexaldehyde	5	20	0.00026231	0.00026231			
05	Hexane	5	100	0.00412	0.0164			
05	Isobutyl Alcohol	5	100	0.00146	0.0139			
05	Isopropylbenzene	5	20	0.00024	0.00024			
05	Lead	5	100	3.4826E-06	2.04816E-05	0.0015	0.0136544	
05	m,p-Xylenes	5	100	0.00111	0.00399			
05	Manganese (Diet)	5	100	0.000007829	3.71131E-05			
05	Mercury	5	100	5.064E-07	1.5609E-06			
05	Methacrylaldehyde	5	100	2.37876E-05	0.000245692			
05	Methyl tert-Butyl Ether	5	100	0.00056	0.00182			
05	Methylcyclohexane	5	60	0.00023	0.00041			
05	Methylene Chloride	5	100	0.000444	0.00115			
05	Naphthalene	4	25	7.206E-07	7.206E-07			
05	Nitrobenzene	3	66.67	3.136E-07	0.00000609			
05	N-valeraldehyde	5	100	2.63117E-05	0.00006438			
05	o-Xylene	5	100	0.000464	0.00148			
05	Phenanthrene	4	75	3.1913E-06	5.2515E-06			
05	Phenol	4	25	1.1389E-06	1.1389E-06			
05	Propionaldehyde	5	100	2.83951E-05	0.000137354			
05	Pyrene	4	100	6.002E-07	1.4443E-06			
05	Styrene	5	80	0.00023	0.000654			
05	Tetrachloroethene	5	80	0.00147	0.00278			
05	Tin	5	40	2.5021E-06	3.3978E-06			
05	Toluene	5	100	0.00216	0.00593			
05	Total Carcinogenic PAHS (BaP TEQs)	4	100	3.438E-10	4.802E-07			
05	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	2.652E-11	3.67568E-10			
05	TOTAL HPCDD	5	100	2.776E-10	2.8249E-09			
05	TOTAL HPCDF	5	100	2.776E-10	2.8249E-09			
05	TOTAL HXCDD	5	100	4.997E-10	3.9548E-09			
05	TOTAL HXCDF	5	100	4.719E-10	3.9548E-09			
05	TOTAL PECDD	5	100	4.442E-10	2.8249E-09			
05	TOTAL PECDF	5	100	5.552E-10	3.1073E-09			
05	TOTAL TCDD	5	100	4.424E-10	1.4124E-09			
05	TOTAL TCDF	5	100	4.442E-10	2.2316E-09			
05	Total Trihalomethanes	5	80	0.000173	0.000515			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	trans-1,3-Dichloropropene	5	60	0.00028	0.00191			
05	Trichlorofluoromethane	5	100	0.00133	0.00278			
05	Vinyl Acetate	5	100	0.00124	0.00449			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	trans-1,3-Dichloropropene	5	60	0.00028	0.00191			
05	Trichlorofluoromethane	5	100	0.00133	0.00278	0.73	0.003808219	
05	Vinyl Acetate	5	100	0.00124	0.00449	0.21	0.021380952	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	trans-1,3-Dichloropropene	5	60	0.00028	0.00191			
05	Trichlorofluoromethane	5	100	0.00133	0.00278			
05	Vinyl Acetate	5	100	0.00124	0.00449			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
05	trans-1,3-Dichloropropene	5	60	0.00028	0.00191			
05	Trichlorofluoromethane	5	100	0.00133	0.00278			
05	Vinyl Acetate	5	100	0.00124	0.00449			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	1,1,1-Trichloroethane	5	40	0.000151	0.000251			
06	1,1,2,2-Tetrachloroethane	5	20	0.000358	0.000358	0.000042	8.523809524	20
06	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000388	0.000848			
06	1,2,4-Trimethylbenzene	5	80	0.000556	0.000908			
06	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	20	0.000287	0.000287			
06	1,2-Dichloroethane	5	20	0.00018	0.00018	0.000094	1.914893617	20
06	1,2-Dichloropropane	5	80	0.000615	0.00433	0.00024	18.04166667	80
06	1,3,5-Trimethylbenzene	5	80	0.000199	0.000262			
06	2,4-Dichlorophenol	5	20	6.369E-07	6.369E-07			
06	2,4-Dimethylphenol	5	20	1.4982E-06	1.4982E-06			
06	2,6-Dichlorophenol	5	20	4.588E-07	4.588E-07			
06	2-Butanone (methyl ethyl ketone)	5	100	0.001364688	0.00531			
06	2-Methylphenol (o-Cresol)	5	20	1.1913E-06	1.1913E-06			
06	3&4-Methylphenol	5	40	2.6351E-06	5.0842E-06			
06	4-Nitrophenol	5	40	0.00000492	9.1456E-06			
06	Acenaphthene	5	20	0.000000704	0.000000704			
06	Acetaldehyde	5	100	0.001328352	0.0485	0.0011	44.09090909	100
06	Acetone	5	100	0.0157	0.0378			
06	Acetonitrile	5	80	0.0009	0.00142			
06	Acetophenone	5	60	0.00917	0.019			
06	Acrolein	5	80	0.0018	0.00231			
06	Acrylonitrile	5	20	0.000389	0.000389	0.000036	10.80555556	20
06	Aluminum	5	80	0.000152776	0.001420346			
06	Anthracene	5	20	2.866E-07	2.866E-07			
06	Antimony	5	80	5.3237E-06	1.60496E-05			
06	Arsenic	5	100	0.00000055	0.000001313	0.00000057	2.303508772	80
06	Barium	5	100	3.0515E-06	2.37044E-05			
06	Benzaldehyde	5	100	0.000515574	0.001172686			
06	Benzene	5	100	0.00125	0.00271	0.00031	8.741935484	100
06	Benzo(g,h,i)perylene	5	20	3.004E-07	3.004E-07			
06	Bromomethane	5	20	0.000278	0.000278			
06	Butyraldehyde	5	100	0.000153236	0.000370861			
06	Cadmium (Diet)	5	80	2.3925E-07	8.511E-07			
06	Carbazole	5	40	4.024E-07	5.886E-07			
06	Carbon Disulfide	5	100	0.000309	0.00294			
06	Carbon Tetrachloride	5	100	0.000405	0.000948	0.00016	5.925	100
06	Chloroform	5	80	0.000163	0.00028	0.00011	2.545454545	80
06	Chloromethane	5	80	0.00178	0.00203	0.0014	1.45	80
06	Chromium	5	100	8.479E-07	6.1171E-06			
06	cis-1,3-Dichloropropene	5	60	0.000817	0.00179			
06	Cobalt	5	80	1.204E-07	5.143E-07			
06	Crotonaldehyde	5	20	7.07763E-05	7.07763E-05			
06	Cyclohexane	5	100	0.000355	0.00207			
06	Dichlorodifluoromethane (Freon 12)	5	100	0.00144	0.00284			
06	Dimethylphthalate	5	60	3.954E-07	3.9711E-06			
06	Ethylbenzene	5	100	0.000909	0.00138	0.00097	1.422680412	60
06	Fluoranthene	5	100	3.1512E-06	6.6103E-06			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	1,1,1-Trichloroethane	5	40	0.000151	0.000251	5.2	4.82692E-05	
06	1,1,2,2-Tetrachloroethane	5	20	0.000358	0.000358			
06	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000388	0.000848	31	2.73548E-05	
06	1,2,4-Trimethylbenzene	5	80	0.000556	0.000908	0.0073	0.124383562	
06	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	20	0.000287	0.000287			
06	1,2-Dichloroethane	5	20	0.00018	0.00018	2.5	0.000072	
06	1,2-Dichloropropane	5	80	0.000615	0.00433	0.0042	1.030952381	20
06	1,3,5-Trimethylbenzene	5	80	0.000199	0.000262			
06	2,4-Dichlorophenol	5	20	6.369E-07	6.369E-07			
06	2,4-Dimethylphenol	5	20	1.4982E-06	1.4982E-06			
06	2,6-Dichlorophenol	5	20	4.588E-07	4.588E-07			
06	2-Butanone (methyl ethyl ketone)	5	100	0.001364688	0.00531	5.2	0.001021154	
06	2-Methylphenol (o-Cresol)	5	20	1.1913E-06	1.1913E-06			
06	3&4-Methylphenol	5	40	2.6351E-06	5.0842E-06			
06	4-Nitrophenol	5	40	0.0000492	9.1456E-06			
06	Acenaphthene	5	20	0.00000704	0.00000704			
06	Acetaldehyde	5	100	0.001328352	0.0485	0.0094	5.159574468	80
06	Acetone	5	100	0.0157	0.0378	32	0.00118125	
06	Acetonitrile	5	80	0.0009	0.00142	0.063	0.022539683	
06	Acetophenone	5	60	0.00917	0.019			
06	Acrolein	5	80	0.0018	0.00231	0.000021	110	80
06	Acrylonitrile	5	20	0.000389	0.000389	0.0021	0.185238095	
06	Aluminum	5	80	0.000152776	0.001420346	0.0052	0.273143365	
06	Anthracene	5	20	2.866E-07	2.866E-07			
06	Antimony	5	80	5.3237E-06	1.60496E-05			
06	Arsenic	5	100	0.0000055	0.00001313	0.000031	0.042354839	
06	Barium	5	100	3.0515E-06	2.37044E-05	0.00052	0.045585385	
06	Benzaldehyde	5	100	0.000515574	0.001172686			
06	Benzene	5	100	0.00125	0.00271	0.031	0.087419355	
06	Benzo(g,h,i)perylene	5	20	3.004E-07	3.004E-07			
06	Bromomethane	5	20	0.000278	0.000278	0.0052	0.053461538	
06	Butyraldehyde	5	100	0.000153236	0.000370861			
06	Cadmium (Diet)	5	80	2.3925E-07	8.511E-07			
06	Carbazole	5	40	4.024E-07	5.886E-07			
06	Carbon Disulfide	5	100	0.000309	0.00294	0.73	0.004027397	
06	Carbon Tetrachloride	5	100	0.000405	0.000948	0.2	0.00474	
06	Chloroform	5	80	0.000163	0.00028	0.1	0.0028	
06	Chloromethane	5	80	0.00178	0.00203	0.094	0.021595745	
06	Chromium	5	100	8.479E-07	6.1171E-06			
06	cis-1,3-Dichloropropene	5	60	0.000817	0.00179			
06	Cobalt	5	80	1.204E-07	5.143E-07			
06	Crotonaldehyde	5	20	7.07763E-05	7.07763E-05			
06	Cyclohexane	5	100	0.000355	0.00207	6.3	0.000328571	
06	Dichlorodifluoromethane (Freon 12)	5	100	0.00144	0.00284	0.21	0.01352381	
06	Dimethylphthalate	5	60	3.954E-07	3.9711E-06			
06	Ethylbenzene	5	100	0.000909	0.00138	1	0.00138	
06	Fluoranthene	5	100	3.1512E-06	6.6103E-06			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	1,1,1-Trichloroethane	5	40	0.000151	0.000251	0.006110757	0.04107511	
06	1,1,2,2-Tetrachloroethane	5	20	0.000358	0.000358	0.000686503	0.521483467	
06	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000388	0.000848			
06	1,2,4-Trimethylbenzene	5	80	0.000556	0.000908	0.418084233	0.002171811	
06	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	20	0.000287	0.000287			
06	1,2-Dichloroethane	5	20	0.00018	0.00018	0.02234189	0.008056615	
06	1,2-Dichloropropane	5	80	0.000615	0.00433	0.002911399	1.487257617	20
06	1,3,5-Trimethylbenzene	5	80	0.000199	0.000262	0.13007065	0.00201429	
06	2,4-Dichlorophenol	5	20	6.369E-07	6.369E-07			
06	2,4-Dimethylphenol	5	20	1.4982E-06	1.4982E-06			
06	2,6-Dichlorophenol	5	20	4.588E-07	4.588E-07			
06	2-Butanone (methyl ethyl ketone)	5	100	0.001364688	0.00531	0.313790789	0.016922103	
06	2-Methylphenol (o-Cresol)	5	20	1.1913E-06	1.1913E-06			
06	3&4-Methylphenol	5	40	2.6351E-06	5.0842E-06			
06	4-Nitrophenol	5	40	0.00000492	9.1456E-06			
06	Acenaphthene	5	20	0.000000704	0.000000704			
06	Acetaldehyde	5	100	0.001328352	0.0485	0.141257881	0.343343674	
06	Acetone	5	100	0.0157	0.0378	8.166831902	0.004628478	
06	Acetonitrile	5	80	0.0009	0.00142	0.027535902	0.051569039	
06	Acetophenone	5	60	0.00917	0.019			
06	Acrolein	5	80	0.0018	0.00231	0.094923681	0.024335339	
06	Acrylonitrile	5	20	0.000389	0.000389	0.035158307	0.011064242	
06	Aluminum	5	80	0.000152776	0.001420346			
06	Anthracene	5	20	2.866E-07	2.866E-07			
06	Antimony	5	80	5.3237E-06	1.60496E-05			
06	Arsenic	5	100	0.00000055	0.000001313	0.00003	0.043766667	
06	Barium	5	100	3.0515E-06	2.37044E-05			
06	Benzaldehyde	5	100	0.000515574	0.001172686			
06	Benzene	5	100	0.00125	0.00271	0.0057	0.475438596	
06	Benzo(g,h,i)perylene	5	20	3.004E-07	3.004E-07			
06	Bromomethane	5	20	0.000278	0.000278			
06	Butyraldehyde	5	100	0.000153236	0.000370861			
06	Cadmium (Diet)	5	80	2.3925E-07	8.511E-07			
06	Carbazole	5	40	4.024E-07	5.886E-07			
06	Carbon Disulfide	5	100	0.000309	0.00294	0.001120933	2.622816235	20
06	Carbon Tetrachloride	5	100	0.000405	0.000948	0.0007	1.354285714	60
06	Chloroform	5	80	0.000163	0.00028	0.0003	0.933333333	
06	Chloromethane	5	80	0.00178	0.00203	0.02465549	0.082334605	
06	Chromium	5	100	8.479E-07	6.1171E-06			
06	cis-1,3-Dichloropropene	5	60	0.000817	0.00179			
06	Cobalt	5	80	1.204E-07	5.143E-07			
06	Crotonaldehyde	5	20	7.07763E-05	7.07763E-05			
06	Cyclohexane	5	100	0.000355	0.00207	2.49075254	0.000831074	
06	Dichlorodifluoromethane (Freon 12)	5	100	0.00144	0.00284			
06	Dimethylphthalate	5	60	3.954E-07	3.9711E-06			
06	Ethylbenzene	5	100	0.000909	0.00138	0.628074798	0.002197191	
06	Fluoranthene	5	100	3.1512E-06	6.6103E-06			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	1,1,1-Trichloroethane	5	40	0.000151	0.000251			
06	1,1,2,2-Tetrachloroethane	5	20	0.000358	0.000358			
06	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000388	0.000848			
06	1,2,4-Trimethylbenzene	5	80	0.000556	0.000908			
06	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	20	0.000287	0.000287			
06	1,2-Dichloroethane	5	20	0.00018	0.00018			
06	1,2-Dichloropropane	5	80	0.000615	0.00433			
06	1,3,5-Trimethylbenzene	5	80	0.000199	0.000262			
06	2,4-Dichlorophenol	5	20	6.369E-07	6.369E-07			
06	2,4-Dimethylphenol	5	20	1.4982E-06	1.4982E-06			
06	2,6-Dichlorophenol	5	20	4.588E-07	4.588E-07			
06	2-Butanone (methyl ethyl ketone)	5	100	0.001364688	0.00531			
06	2-Methylphenol (o-Cresol)	5	20	1.1913E-06	1.1913E-06			
06	3&4-Methylphenol	5	40	2.6351E-06	5.0842E-06			
06	4-Nitrophenol	5	40	0.00000492	9.1456E-06			
06	Acenaphthene	5	20	0.000000704	0.000000704			
06	Acetaldehyde	5	100	0.001328352	0.0485			
06	Acetone	5	100	0.0157	0.0378			
06	Acetonitrile	5	80	0.0009	0.00142			
06	Acetophenone	5	60	0.00917	0.019			
06	Acrolein	5	80	0.0018	0.00231			
06	Acrylonitrile	5	20	0.000389	0.000389			
06	Aluminum	5	80	0.000152776	0.001420346			
06	Anthracene	5	20	2.866E-07	2.866E-07			
06	Antimony	5	80	5.3237E-06	1.60496E-05			
06	Arsenic	5	100	0.00000055	0.000001313			
06	Barium	5	100	3.0515E-06	2.37044E-05			
06	Benzaldehyde	5	100	0.000515574	0.001172686			
06	Benzene	5	100	0.00125	0.00271			
06	Benzo(g,h,i)perylene	5	20	3.004E-07	3.004E-07			
06	Bromomethane	5	20	0.000278	0.000278			
06	Butyraldehyde	5	100	0.000153236	0.000370861			
06	Cadmium (Diet)	5	80	2.3925E-07	8.511E-07			
06	Carbazole	5	40	4.024E-07	5.886E-07			
06	Carbon Disulfide	5	100	0.000309	0.00294			
06	Carbon Tetrachloride	5	100	0.000405	0.000948			
06	Chloroform	5	80	0.000163	0.00028			
06	Chloromethane	5	80	0.00178	0.00203			
06	Chromium	5	100	8.479E-07	6.1171E-06			
06	cis-1,3-Dichloropropene	5	60	0.000817	0.00179			
06	Cobalt	5	80	1.204E-07	5.143E-07			
06	Crotonaldehyde	5	20	7.07763E-05	7.07763E-05			
06	Cyclohexane	5	100	0.000355	0.00207			
06	Dichlorodifluoromethane (Freon 12)	5	100	0.00144	0.00284			
06	Dimethylphthalate	5	60	3.954E-07	3.9711E-06			
06	Ethylbenzene	5	100	0.000909	0.00138			
06	Fluoranthene	5	100	3.1512E-06	6.6103E-06			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Formaldehyde	5	100	0.001579095	0.004014264	0.00019	21.12770474	100
06	Gravimetrics-PM10	5	100	0.031318346	0.064912368			
06	Hexachlorobutadiene	10	20	0.000317	0.000374	0.00011	3.4	20
06	Hexaldehyde	5	40	0.000259702	0.000487754			
06	Hexane	5	80	0.000749	0.0314			
06	Isobutyl Alcohol	5	80	0.00211	0.00638			
06	Lead	5	100	4.6393E-06	2.27369E-05			
06	m,p-Xylenes	5	100	0.00198	0.00328			
06	Manganese (Diet)	5	100	3.4715E-06	1.49553E-05			
06	Mercury	5	80	1.7348E-06	2.4986E-06			
06	Methacrylaldehyde	5	100	3.89594E-05	0.000345579			
06	Methyl Acetate	5	20	0.000552	0.000552			
06	Methyl tert-Butyl Ether	5	80	0.000754	0.00158	0.0094	0.168085106	
06	Methylcyclohexane	5	40	0.000426	0.00192			
06	Methylene Chloride	5	100	0.000368	0.000948	0.0052	0.182307692	
06	M-tolualdehyde	5	20	0.00120915	0.00120915			
06	N-valeraldehyde	5	100	7.65254E-05	0.000148402			
06	o-Xylene	5	80	0.000668	0.00104			
06	Phenanthrene	5	100	2.7887E-06	9.4175E-06			
06	Propionaldehyde	5	100	0.000156177	0.00032171			
06	Pyrene	5	100	1.4111E-06	3.9843E-06			
06	Styrene	5	100	0.000359	0.000453			
06	Tetrachloroethene	5	80	0.00286	0.00442	0.00041	10.7804878	80
06	Toluene	5	100	0.00216	0.004			
06	Total Carcinogenic PAHS (BaP TEQs)	5	80	3.941E-10	9.172E-10	0.00000087	0.001054253	
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	1.44864E-10	1.29816E-09	6.4E-11	20.2838125	100
06	TOTAL HPCDD	5	100	1.0836E-09	1.41757E-08			
06	TOTAL HPCDF	5	100	9.695E-10	8.2477E-09			
06	TOTAL HXCDD	5	100	1.7109E-09	3.35063E-08			
06	TOTAL HXCDF	5	100	1.3687E-09	8.7632E-09			
06	TOTAL PECDD	5	100	1.3402E-09	1.77841E-08			
06	TOTAL PECDF	5	100	1.0836E-09	7.4745E-09			
06	TOTAL TCDD	5	100	7.984E-10	9.2787E-09			
06	TOTAL TCDF	5	100	1.0266E-09	9.1971E-09			
06	Total Trihalomethanes	5	80	0.000163	0.00028			
06	trans-1,3-Dichloropropene	5	60	0.000803	0.00187			
06	Trichlorofluoromethane	5	100	0.00114	0.00243			
06	Vinyl Acetate	5	100	0.00203	0.0116			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Formaldehyde	5	100	0.001579095	0.004014264	0.01	0.40142639	
06	Gravimetrics-PM10	5	100	0.031318346	0.064912368			
06	Hexachlorobutadiene	10	20	0.000317	0.000374			
06	Hexaldehyde	5	40	0.000259702	0.000487754			
06	Hexane	5	80	0.000749	0.0314	0.73	0.043013699	
06	Isobutyl Alcohol	5	80	0.00211	0.00638			
06	Lead	5	100	4.6393E-06	2.27369E-05	0.0017	0.013374647	
06	m,p-Xylenes	5	100	0.00198	0.00328	0.1	0.0328	
06	Manganese (Diet)	5	100	3.4715E-06	1.49553E-05			
06	Mercury	5	80	1.7348E-06	2.4986E-06	0.00031	0.00806	
06	Methacrylaldehyde	5	100	3.89594E-05	0.000345579			
06	Methyl Acetate	5	20	0.000552	0.000552			
06	Methyl tert-Butyl Ether	5	80	0.000754	0.00158	3.1	0.000509677	
06	Methylcyclohexane	5	40	0.000426	0.00192	3.1	0.000619355	
06	Methylene Chloride	5	100	0.000368	0.000948	1.1	0.000861818	
06	M-tolualdehyde	5	20	0.00120915	0.00120915			
06	N-valeraldehyde	5	100	7.65254E-05	0.000148402			
06	o-Xylene	5	80	0.000668	0.00104	0.73	0.001424658	
06	Phenanthrene	5	100	2.7887E-06	9.4175E-06			
06	Propionaldehyde	5	100	0.000156177	0.00032171			
06	Pyrene	5	100	1.4111E-06	3.9843E-06			
06	Styrene	5	100	0.000359	0.000453	1	0.000453	
06	Tetrachloroethene	5	80	0.00286	0.00442	0.28	0.015785714	
06	Toluene	5	100	0.00216	0.004	5.2	0.000769231	
06	Total Carcinogenic PAHS (BaP TEQs)	5	80	3.941E-10	9.172E-10			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	1.44864E-10	1.29816E-09			
06	TOTAL HPCDD	5	100	1.0836E-09	1.41757E-08			
06	TOTAL HPCDF	5	100	9.695E-10	8.2477E-09			
06	TOTAL HXCDD	5	100	1.7109E-09	3.35063E-08			
06	TOTAL HXCDF	5	100	1.3687E-09	8.7632E-09			
06	TOTAL PECDD	5	100	1.3402E-09	1.77841E-08			
06	TOTAL PECDF	5	100	1.0836E-09	7.4745E-09			
06	TOTAL TCDD	5	100	7.984E-10	9.2787E-09			
06	TOTAL TCDF	5	100	1.0266E-09	9.1971E-09			
06	Total Trihalomethanes	5	80	0.000163	0.00028			
06	trans-1,3-Dichloropropene	5	60	0.000803	0.00187			
06	Trichlorofluoromethane	5	100	0.00114	0.00243	0.73	0.003328767	
06	Vinyl Acetate	5	100	0.00203	0.0116	0.21	0.055238095	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Formaldehyde	5	100	0.001579095	0.004014264	0.0079	0.508134671	
06	Gravimetrics-PM10	5	100	0.031318346	0.064912368			
06	Hexachlorobutadiene	10	20	0.000317	0.000374	0.004095372	0.0913226	
06	Hexaldehyde	5	40	0.000259702	0.000487754			
06	Hexane	5	80	0.000749	0.0314	3.079532452	0.010196353	
06	Isobutyl Alcohol	5	80	0.00211	0.00638			
06	Lead	5	100	4.6393E-06	2.27369E-05	0.00004	0.5684225	
06	m,p-Xylenes	5	100	0.00198	0.00328			
06	Manganese (Diet)	5	100	3.4715E-06	1.49553E-05			
06	Mercury	5	80	1.7348E-06	2.4986E-06			
06	Methacrylaldehyde	5	100	3.89594E-05	0.000345579			
06	Methyl Acetate	5	20	0.000552	0.000552			
06	Methyl tert-Butyl Ether	5	80	0.000754	0.00158	0.31185638	0.005066435	
06	Methylcyclohexane	5	40	0.000426	0.00192	0.424477366	0.004523209	
06	Methylene Chloride	5	100	0.000368	0.000948	0.166739632	0.005685511	
06	m-tolualdehyde	5	20	0.00120915	0.00120915			
06	N-valeraldehyde	5	100	7.65254E-05	0.000148402			
06	o-Xylene	5	80	0.000668	0.00104	0.64474935	0.00161303	
06	Phenanthrene	5	100	2.7887E-06	9.4175E-06			
06	Propionaldehyde	5	100	0.000156177	0.00032171			
06	Pyrene	5	100	1.4111E-06	3.9843E-06			
06	Styrene	5	100	0.000359	0.000453	7.92238593	5.71797E-05	
06	Tetrachloroethene	5	80	0.00286	0.00442	0.013022233	0.339419511	
06	Toluene	5	100	0.00216	0.004	1.34799501	0.00296737	
06	Total Carcinogenic PAHS (BaP TEQs)	5	80	3.941E-10	9.172E-10	0.000019	4.82737E-05	
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	1.44864E-10	1.29816E-09	2.1E-10	6.181733333	80
06	TOTAL HPCDD	5	100	1.0836E-09	1.41757E-08			
06	TOTAL HPCDF	5	100	9.695E-10	8.2477E-09			
06	TOTAL HXCDD	5	100	1.7109E-09	3.35063E-08			
06	TOTAL HXCDF	5	100	1.3687E-09	8.7632E-09			
06	TOTAL PECDD	5	100	1.3402E-09	1.77841E-08			
06	TOTAL PECDF	5	100	1.0836E-09	7.4745E-09			
06	TOTAL TCDD	5	100	7.984E-10	9.2787E-09			
06	TOTAL TCDF	5	100	1.0266E-09	9.1971E-09			
06	Total Trihalomethanes	5	80	0.000163	0.00028			
06	trans-1,3-Dichloropropene	5	60	0.000803	0.00187			
06	Trichlorofluoromethane	5	100	0.00114	0.00243			
06	Vinyl Acetate	5	100	0.00203	0.0116			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
06	Formaldehyde	5	100	0.001579095	0.004014264			
06	Gravimetrics-PM10	5	100	0.031318346	0.064912368	0.15	0.432749122	
06	Hexachlorobutadiene	10	20	0.000317	0.000374			
06	Hexaldehyde	5	40	0.000259702	0.000487754			
06	Hexane	5	80	0.000749	0.0314			
06	Isobutyl Alcohol	5	80	0.00211	0.00638			
06	Lead	5	100	4.6393E-06	2.27369E-05	0.0015	0.015157933	
06	m,p-Xylenes	5	100	0.00198	0.00328			
06	Manganese (Diet)	5	100	3.4715E-06	1.49553E-05			
06	Mercury	5	80	1.7348E-06	2.4986E-06			
06	Methacrylaldehyde	5	100	3.89594E-05	0.000345579			
06	Methyl Acetate	5	20	0.000552	0.000552			
06	Methyl tert-Butyl Ether	5	80	0.000754	0.00158			
06	Methylcyclohexane	5	40	0.000426	0.00192			
06	Methylene Chloride	5	100	0.000368	0.000948			
06	M-tolualdehyde	5	20	0.00120915	0.00120915			
06	N-valeraldehyde	5	100	7.65254E-05	0.000148402			
06	o-Xylene	5	80	0.000668	0.00104			
06	Phenanthrene	5	100	2.7887E-06	9.4175E-06			
06	Propionaldehyde	5	100	0.000156177	0.00032171			
06	Pyrene	5	100	1.4111E-06	3.9843E-06			
06	Styrene	5	100	0.000359	0.000453			
06	Tetrachloroethene	5	80	0.00286	0.00442			
06	Toluene	5	100	0.00216	0.004			
06	Total Carcinogenic PAHS (BaP TEQs)	5	80	3.941E-10	9.172E-10			
06	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	1.44864E-10	1.29816E-09			
06	TOTAL HPCDD	5	100	1.0836E-09	1.41757E-08			
06	TOTAL HPCDF	5	100	9.695E-10	8.2477E-09			
06	TOTAL HXCDD	5	100	1.7109E-09	3.35063E-08			
06	TOTAL HXCDF	5	100	1.3687E-09	8.7632E-09			
06	TOTAL PECDD	5	100	1.3402E-09	1.77841E-08			
06	TOTAL PECDF	5	100	1.0836E-09	7.4745E-09			
06	TOTAL TCDD	5	100	7.984E-10	9.2787E-09			
06	TOTAL TCDF	5	100	1.0266E-09	9.1971E-09			
06	Total Trihalomethanes	5	80	0.000163	0.00028			
06	trans-1,3-Dichloropropene	5	60	0.000803	0.00187			
06	Trichlorofluoromethane	5	100	0.00114	0.00243			
06	Vinyl Acetate	5	100	0.00203	0.0116			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,1,1-Trichloroethane	5	40	0.0001965	0.000229			
07	1,1,2,2-Tetrachloroethane	5	20	0.000386	0.000386	0.000042	9.19047619	20
07	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	80	0.000719	0.000823			
07	1,2,4-Trimethylbenzene	5	80	0.000647	0.00122			
07	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000264	0.000278			
07	1,2-Dichloroethane	5	20	0.00017	0.00017	0.000094	1.808510638	20
07	1,2-Dichloropropane	5	80	0.000782	0.00881	0.00024	36.70833333	80
07	1,3,5-Trimethylbenzene	5	80	0.000202	0.000365			
07	2,4,5-Trichlorophenol	5	20	0.000003732	0.000003732			
07	2,4,6-Trichlorophenol	5	20	3.7614E-06	3.7614E-06	0.00078	0.004822308	
07	2,4-Dichlorophenol	5	20	4.3491E-06	4.3491E-06			
07	2,4-Dimethylphenol	5	20	4.7311E-06	4.7311E-06			
07	2,6-Dichlorophenol	5	20	2.8122E-06	2.8122E-06			
07	2-Butanone (methyl ethyl ketone)	5	100	0.00129	0.003835			
07	2-Nitrophenol	5	20	9.903E-07	9.903E-07			
07	3&4-Methylphenol	5	20	6.42535E-06	6.42535E-06			
07	Acetaldehyde	5	100	0.001488889	0.0351	0.0011	31.90909091	100
07	Acetone	5	100	0.011	0.03505			
07	Acetonitrile	5	60	0.000643	0.0011045			
07	Acetophenone	5	60	0.0108	0.104			
07	Acrolein	5	60	0.00135	0.00351			
07	Acrylonitrile	5	20	0.000405	0.000405	0.000036	11.25	20
07	Aluminum	5	100	0.000203214	0.001360099			
07	Anthracene	5	60	4.921E-07	7.475E-07			
07	Antimony	5	100	4.6062E-06	1.70025E-05			
07	Arsenic	5	80	6.802E-07	1.9202E-06	0.00000057	3.36877193	80
07	Barium	5	100	5.1016E-06	2.10471E-05			
07	Benzaldehyde	5	80	0.000263889	0.001043333			
07	Benzene	5	100	0.000921	0.00189	0.00031	6.096774194	100
07	Benzo(g,h,i)perylene	5	80	5.346E-07	6.4242E-06			
07	Beryllium	5	40	1.442E-07	0.00000145	0.000001	0.145	
07	Bis(2-ethylhexyl)phthalate	5	80	0.00004947	0.000188711			
07	Bromomethane	5	20	0.000242	0.000242			
07	Butylbenzylphthalate	5	20	0.000299452	0.000299452			
07	Butyraldehyde	5	100	6.81894E-05	0.00029537			
07	Cadmium (Diet)	5	100	2.351E-07	1.0978E-06			
07	Carbazole	5	40	3.099E-07	1.2909E-06			
07	Carbon Disulfide	5	100	0.000258	0.00759			
07	Carbon Tetrachloride	5	100	0.000381	0.001004	0.00016	6.275	100
07	Chloroform	5	60	0.000134	0.000234	0.00011	2.127272727	60
07	Chloromethane	5	80	0.00159	0.0124	0.0014	8.857142857	80
07	Chromium	5	100	1.3647E-06	4.1101E-06			
07	cis-1,3-Dichloropropene	5	20	0.000309	0.000309			
07	Cobalt	5	100	0.00000102	8.327E-07			
07	Crotonaldehyde	5	40	0.000148889	0.000267593			
07	Cyclohexane	5	100	0.000316	0.00205			
07	Dibenzofuran	5	40	0.000000399	8.544E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,1,1-Trichloroethane	5	40	0.0001965	0.000229	5.2	4.40385E-05	
07	1,1,2,2-Tetrachloroethane	5	20	0.000386	0.000386			
07	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	80	0.000719	0.000823	31	2.65484E-05	
07	1,2,4-Trimethylbenzene	5	80	0.000647	0.00122	0.0073	0.167123288	
07	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000264	0.000278			
07	1,2-Dichloroethane	5	20	0.00017	0.00017	2.5	0.000068	
07	1,2-Dichloropropane	5	80	0.000782	0.00881	0.0042	2.097619048	40
07	1,3,5-Trimethylbenzene	5	80	0.000202	0.000365			
07	2,4,5-Trichlorophenol	5	20	0.000003732	0.000003732			
07	2,4,6-Trichlorophenol	5	20	3.7614E-06	3.7614E-06			
07	2,4-Dichlorophenol	5	20	4.3491E-06	4.3491E-06			
07	2,4-Dimethylphenol	5	20	4.7311E-06	4.7311E-06			
07	2,6-Dichlorophenol	5	20	2.8122E-06	2.8122E-06			
07	2-Butanone (methyl ethyl ketone)	5	100	0.00129	0.003835	5.2	0.0007375	
07	2-Nitrophenol	5	20	9.903E-07	9.903E-07			
07	3&4-Methylphenol	5	20	6.42535E-06	6.42535E-06			
07	Acetaldehyde	5	100	0.001488889	0.0351	0.0094	3.734042553	80
07	Acetone	5	100	0.011	0.03505	32	0.001095313	
07	Acetonitrile	5	60	0.000643	0.0011045	0.063	0.017531746	
07	Acetophenone	5	60	0.0108	0.104			
07	Acrolein	5	60	0.00135	0.00351	0.000021	167.1428571	60
07	Acrylonitrile	5	20	0.000405	0.000405	0.0021	0.192857143	
07	Aluminum	5	100	0.000203214	0.001360099	0.0052	0.261557577	
07	Anthracene	5	60	4.921E-07	7.475E-07			
07	Antimony	5	100	4.6062E-06	1.70025E-05			
07	Arsenic	5	80	6.802E-07	1.9202E-06	0.000031	0.061941935	
07	Barium	5	100	5.1016E-06	2.10471E-05	0.00052	0.040475192	
07	Benzaldehyde	5	80	0.000263889	0.001043333			
07	Benzene	5	100	0.000921	0.00189	0.031	0.060967742	
07	Benzo(g,h,i)perylene	5	80	5.346E-07	6.4242E-06			
07	Beryllium	5	40	1.442E-07	0.00000145	0.000021	0.006904762	
07	Bis(2-ethylhexyl)phthalate	5	80	0.00004947	0.000188711			
07	Bromomethane	5	20	0.000242	0.000242	0.0052	0.046538462	
07	Butylbenzylphthalate	5	20	0.000299452	0.000299452			
07	Butyraldehyde	5	100	6.81894E-05	0.00029537			
07	Cadmium (Diet)	5	100	2.351E-07	1.0978E-06			
07	Carbazole	5	40	3.099E-07	1.2909E-06			
07	Carbon Disulfide	5	100	0.000258	0.00759	0.73	0.01039726	
07	Carbon Tetrachloride	5	100	0.000381	0.001004	0.2	0.00502	
07	Chloroform	5	60	0.000134	0.000234	0.1	0.00234	
07	Chloromethane	5	80	0.00159	0.0124	0.094	0.131914894	
07	Chromium	5	100	1.3647E-06	4.1101E-06			
07	cis-1,3-Dichloropropene	5	20	0.000309	0.000309			
07	Cobalt	5	100	0.00000102	8.327E-07			
07	Crotonaldehyde	5	40	0.000148889	0.000267593			
07	Cyclohexane	5	100	0.000316	0.00205	6.3	0.000325397	
07	Dibenzofuran	5	40	0.000000399	8.544E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,1,1-Trichloroethane	5	40	0.0001965	0.000229	0.006110757	0.037474901	
07	1,1,2,2-Tetrachloroethane	5	20	0.000386	0.000386	0.000686503	0.562269884	
07	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	80	0.000719	0.000823			
07	1,2,4-Trimethylbenzene	5	80	0.000647	0.00122	0.418084233	0.002918072	
07	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000264	0.000278			
07	1,2-Dichloroethane	5	20	0.00017	0.00017	0.02234189	0.007609025	
07	1,2-Dichloropropane	5	80	0.000782	0.00881	0.002911399	3.02603686	40
07	1,3,5-Trimethylbenzene	5	80	0.000202	0.000365	0.13007065	0.002806167	
07	2,4,5-Trichlorophenol	5	20	0.000003732	0.000003732			
07	2,4,6-Trichlorophenol	5	20	3.7614E-06	3.7614E-06			
07	2,4-Dichlorophenol	5	20	4.3491E-06	4.3491E-06			
07	2,4-Dimethylphenol	5	20	4.7311E-06	4.7311E-06			
07	2,6-Dichlorophenol	5	20	2.8122E-06	2.8122E-06			
07	2-Butanone (methyl ethyl ketone)	5	100	0.00129	0.003835	0.313790789	0.012221519	
07	2-Nitrophenol	5	20	9.903E-07	9.903E-07			
07	3&4-Methylphenol	5	20	6.42535E-06	6.42535E-06			
07	Acetaldehyde	5	100	0.001488889	0.0351	0.141257881	0.248481711	
07	Acetone	5	100	0.011	0.03505	8.166831902	0.00429175	
07	Acetonitrile	5	60	0.000643	0.0011045	0.027535902	0.04011127	
07	Acetophenone	5	60	0.0108	0.104			
07	Acrolein	5	60	0.00135	0.00351	0.094923681	0.036977074	
07	Acrylonitrile	5	20	0.000405	0.000405	0.035158307	0.011519326	
07	Aluminum	5	100	0.000203214	0.001360099			
07	Anthracene	5	60	4.921E-07	7.475E-07			
07	Antimony	5	100	4.6062E-06	1.70025E-05			
07	Arsenic	5	80	6.802E-07	1.9202E-06	0.00003	0.064006667	
07	Barium	5	100	5.1016E-06	2.10471E-05			
07	Benzaldehyde	5	80	0.000263889	0.001043333			
07	Benzene	5	100	0.000921	0.00189	0.0057	0.331578947	
07	Benzo(g,h,i)perylene	5	80	5.346E-07	6.4242E-06			
07	Beryllium	5	40	1.442E-07	0.00000145			
07	Bis(2-ethylhexyl)phthalate	5	80	0.00004947	0.000188711			
07	Bromomethane	5	20	0.000242	0.000242			
07	Butylbenzylphthalate	5	20	0.000299452	0.000299452			
07	Butyraldehyde	5	100	6.81894E-05	0.00029537			
07	Cadmium (Diet)	5	100	2.351E-07	1.0978E-06			
07	Carbazole	5	40	3.099E-07	1.2909E-06			
07	Carbon Disulfide	5	100	0.000258	0.00759	0.001120933	6.771148036	40
07	Carbon Tetrachloride	5	100	0.000381	0.001004	0.0007	1.434285714	60
07	Chloroform	5	60	0.000134	0.000234	0.0003	0.78	
07	Chloromethane	5	80	0.00159	0.0124	0.02465549	0.502930593	
07	Chromium	5	100	1.3647E-06	4.1101E-06			
07	cis-1,3-Dichloropropene	5	20	0.000309	0.000309			
07	Cobalt	5	100	0.00000102	8.327E-07			
07	Crotonaldehyde	5	40	0.000148889	0.000267593			
07	Cyclohexane	5	100	0.000316	0.00205	2.49075254	0.000823044	
07	Dibenzofuran	5	40	0.000000399	8.544E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	1,1,1-Trichloroethane	5	40	0.0001965	0.000229			
07	1,1,2,2-Tetrachloroethane	5	20	0.000386	0.000386			
07	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	80	0.000719	0.000823			
07	1,2,4-Trimethylbenzene	5	80	0.000647	0.00122			
07	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	40	0.000264	0.000278			
07	1,2-Dichloroethane	5	20	0.00017	0.00017			
07	1,2-Dichloropropane	5	80	0.000782	0.00881			
07	1,3,5-Trimethylbenzene	5	80	0.000202	0.000365			
07	2,4,5-Trichlorophenol	5	20	0.000003732	0.000003732			
07	2,4,6-Trichlorophenol	5	20	3.7614E-06	3.7614E-06			
07	2,4-Dichlorophenol	5	20	4.3491E-06	4.3491E-06			
07	2,4-Dimethylphenol	5	20	4.7311E-06	4.7311E-06			
07	2,6-Dichlorophenol	5	20	2.8122E-06	2.8122E-06			
07	2-Butanone (methyl ethyl ketone)	5	100	0.00129	0.003835			
07	2-Nitrophenol	5	20	9.903E-07	9.903E-07			
07	3&4-Methylphenol	5	20	6.42535E-06	6.42535E-06			
07	Acetaldehyde	5	100	0.001488889	0.0351			
07	Acetone	5	100	0.011	0.03505			
07	Acetonitrile	5	60	0.000643	0.0011045			
07	Acetophenone	5	60	0.0108	0.104			
07	Acrolein	5	60	0.00135	0.00351			
07	Acrylonitrile	5	20	0.000405	0.000405			
07	Aluminum	5	100	0.000203214	0.001360099			
07	Anthracene	5	60	4.921E-07	7.475E-07			
07	Antimony	5	100	4.6062E-06	1.70025E-05			
07	Arsenic	5	80	6.802E-07	1.9202E-06			
07	Barium	5	100	5.1016E-06	2.10471E-05			
07	Benzaldehyde	5	80	0.000263889	0.001043333			
07	Benzene	5	100	0.000921	0.00189			
07	Benzo(g,h,i)perylene	5	80	5.346E-07	6.4242E-06			
07	Beryllium	5	40	1.442E-07	0.000000145			
07	Bis(2-ethylhexyl)phthalate	5	80	0.00004947	0.000188711			
07	Bromomethane	5	20	0.000242	0.000242			
07	Butylbenzylphthalate	5	20	0.000299452	0.000299452			
07	Butyraldehyde	5	100	6.81894E-05	0.00029537			
07	Cadmium (Diet)	5	100	2.351E-07	1.0978E-06			
07	Carbazole	5	40	3.099E-07	1.2909E-06			
07	Carbon Disulfide	5	100	0.000258	0.00759			
07	Carbon Tetrachloride	5	100	0.000381	0.001004			
07	Chloroform	5	60	0.000134	0.000234			
07	Chloromethane	5	80	0.00159	0.0124			
07	Chromium	5	100	1.3647E-06	4.1101E-06			
07	cis-1,3-Dichloropropene	5	20	0.000309	0.000309			
07	Cobalt	5	100	0.000000102	8.327E-07			
07	Crotonaldehyde	5	40	0.000148889	0.000267593			
07	Cyclohexane	5	100	0.000316	0.00205			
07	Dibenzofuran	5	40	0.000000399	8.544E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Dichlorodifluoromethane (Freon 12)	5	80	0.0014	0.00302			
07	Dieldrin	5	20	8.7431E-06	8.7431E-06	0.00000053	16.49641509	20
07	Dimethylphthalate	5	60	6.676E-07	3.4233E-06			
07	Di-n-octylphthalate	5	40	2.6811E-06	0.00003842			
07	Endosulfan Sulfate	5	20	2.80686E-05	2.80686E-05			
07	Ethylbenzene	5	100	0.000677	0.00124	0.00097	1.278350515	20
07	Fluoranthene	5	100	1.8239E-06	8.0456E-06			
07	Fluorene	5	20	3.2324E-06	3.2324E-06			
07	Formaldehyde	5	100	0.00075645	0.0031	0.00019	16.31578947	100
07	Gravimetrics-PM10	5	100	0.043981821	0.058355438			
07	Hexachlorobutadiene	9	11.11	0.000315	0.000315	0.00011	2.863636364	11.11111111
07	Hexaldehyde	5	20	0.000289242	0.000289242			
07	Hexane	5	100	0.000922	0.0312			
07	Isobutyl Alcohol	5	80	0.00202	0.00606			
07	Lead	5	100	0.000009608	4.86855E-05			
07	m,p-Xylenes	5	100	0.00178	0.00346			
07	Manganese (Diet)	5	100	0.000006292	1.26493E-05			
07	Mercury	6	83.33	1.2861E-06	2.7787E-06			
07	Methacrylaldehyde	5	80	8.28823E-05	0.000482222			
07	Methyl Acetate	5	20	0.000643	0.000643			
07	Methyl tert-Butyl Ether	5	60	0.000817	0.00143	0.0094	0.15212766	
07	Methylcyclohexane	5	80	0.000306	0.00187			
07	Methylene Chloride	5	100	0.000321	0.00112	0.0052	0.215384615	
07	M-tolualdehyde	5	20	0.000641667	0.000641667			
07	Naphthalene	5	20	2.3539E-06	2.3539E-06	0.000072	0.032693056	
07	N-valeraldehyde	5	100	2.65781E-05	8.14276E-05			
07	o-Xylene	5	80	0.000701	0.00121			
07	Phenanthrene	5	100	5.2307E-06	1.97639E-05			
07	Propionaldehyde	5	100	3.14317E-05	0.0001848			
07	Pyrene	5	100	9.421E-07	6.01615E-06			
07	Styrene	5	100	0.000274	0.00115			
07	Tetrachloroethene	5	80	0.00222	0.00308	0.00041	7.512195122	80
07	Thallium	5	20	1.6483E-06	1.6483E-06			
07	Tin	5	80	1.6628E-06	4.2918E-06			
07	Toluene	5	100	0.00225	0.00529			
07	Total Carcinogenic PAHs (BaP TEQs)	5	100	4.76502E-07	1.27089E-05	0.00000087	14.6079231	40
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	1.06118E-10	1.18636E-09	6.4E-11	18.53685938	100
07	TOTAL HPCDD	5	100	8.606E-10	7.2075E-09			
07	TOTAL HPCDF	5	100	9.17E-10	2.9364E-09			
07	TOTAL HXCDD	5	100	1.5373E-09	2.32242E-08			
07	TOTAL HXCDF	5	100	1.3215E-09	8.5422E-09			
07	TOTAL PECDD	5	100	1.2676E-09	2.61605E-08			
07	TOTAL PECDF	5	100	1.4564E-09	1.22794E-08			
07	TOTAL TCDD	5	100	7.012E-10	1.922E-08			
07	TOTAL TCDF	5	100	1.1867E-09	1.41481E-08			
07	Total Trihalomethanes	5	60	0.000134	0.000234			
07	trans-1,3-Dichloropropene	5	20	0.00029	0.00029			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Dichlorodifluoromethane (Freon 12)	5	80	0.0014	0.00302	0.21	0.014380952	
07	Dieldrin	5	20	8.7431E-06	8.7431E-06			
07	Dimethylphthalate	5	60	6.676E-07	3.4233E-06			
07	Di-n-octylphthalate	5	40	2.6811E-06	0.00003842			
07	Endosulfan Sulfate	5	20	2.80686E-05	2.80686E-05			
07	Ethylbenzene	5	100	0.000677	0.00124	1	0.00124	
07	Fluoranthene	5	100	1.8239E-06	8.0456E-06			
07	Fluorene	5	20	3.2324E-06	3.2324E-06			
07	Formaldehyde	5	100	0.00075645	0.0031	0.01	0.31	
07	Gravimetrics-PM10	5	100	0.043981821	0.058355438			
07	Hexachlorobutadiene	9	11.11	0.000315	0.000315			
07	Hexaldehyde	5	20	0.000289242	0.000289242			
07	Hexane	5	100	0.000922	0.0312	0.73	0.042739726	
07	Isobutyl Alcohol	5	80	0.00202	0.00606			
07	Lead	5	100	0.000009608	4.86855E-05	0.0017	0.028638529	
07	m,p-Xylenes	5	100	0.00178	0.00346	0.1	0.0346	
07	Manganese (Diet)	5	100	0.000006292	1.26493E-05			
07	Mercury	6	83.33	1.2861E-06	2.7787E-06	0.00031	0.008963548	
07	Methacrylaldehyde	5	80	8.28823E-05	0.000482222			
07	Methyl Acetate	5	20	0.000643	0.000643			
07	Methyl tert-Butyl Ether	5	60	0.000817	0.00143	3.1	0.00046129	
07	Methylcyclohexane	5	80	0.000306	0.00187	3.1	0.000603226	
07	Methylene Chloride	5	100	0.000321	0.00112	1.1	0.001018182	
07	M-tolualdehyde	5	20	0.000641667	0.000641667			
07	Naphthalene	5	20	2.3539E-06	2.3539E-06	0.0031	0.000759323	
07	N-valeraldehyde	5	100	2.65781E-05	8.14276E-05			
07	o-Xylene	5	80	0.000701	0.00121	0.73	0.001657534	
07	Phenanthrene	5	100	5.2307E-06	1.97639E-05			
07	Propionaldehyde	5	100	3.14317E-05	0.0001848			
07	Pyrene	5	100	9.421E-07	6.01615E-06			
07	Styrene	5	100	0.000274	0.00115	1	0.00115	
07	Tetrachloroethene	5	80	0.00222	0.00308	0.28	0.011	
07	Thallium	5	20	1.6483E-06	1.6483E-06			
07	Tin	5	80	1.6628E-06	4.2918E-06			
07	Toluene	5	100	0.00225	0.00529	5.2	0.001017308	
07	Total Carcinogenic PAHs (BaP TEQs)	5	100	4.76502E-07	1.27089E-05			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	1.06118E-10	1.18636E-09			
07	TOTAL HPCDD	5	100	8.606E-10	7.2075E-09			
07	TOTAL HPCDF	5	100	9.17E-10	2.9364E-09			
07	TOTAL HXCDD	5	100	1.5373E-09	2.32242E-08			
07	TOTAL HXCDF	5	100	1.3215E-09	8.5422E-09			
07	TOTAL PECDD	5	100	1.2676E-09	2.61605E-08			
07	TOTAL PECDF	5	100	1.4564E-09	1.22794E-08			
07	TOTAL TCDD	5	100	7.012E-10	1.922E-08			
07	TOTAL TCDF	5	100	1.1867E-09	1.41481E-08			
07	Total Trihalomethanes	5	60	0.000134	0.000234			
07	trans-1,3-Dichloropropene	5	20	0.00029	0.00029			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Dichlorodifluoromethane (Freon 12)	5	80	0.0014	0.00302			
07	Dieldrin	5	20	8.7431E-06	8.7431E-06	0.00000165	5.298848485	20
07	Dimethylphthalate	5	60	6.676E-07	3.4233E-06			
07	Di-n-octylphthalate	5	40	2.6811E-06	0.000003842			
07	Endosulfan Sulfate	5	20	2.80686E-05	2.80686E-05			
07	Ethylbenzene	5	100	0.000677	0.00124	0.628074798	0.001974287	
07	Fluoranthene	5	100	1.8239E-06	8.0456E-06			
07	Fluorene	5	20	3.2324E-06	3.2324E-06			
07	Formaldehyde	5	100	0.00075645	0.0031	0.0079	0.392405063	
07	Gravimetrics-PM10	5	100	0.043981821	0.058355438			
07	Hexachlorobutadiene	9	11.11	0.000315	0.000315	0.004095372	0.076916094	
07	Hexaldehyde	5	20	0.000289242	0.000289242			
07	Hexane	5	100	0.000922	0.0312	3.079532452	0.010131408	
07	Isobutyl Alcohol	5	80	0.00202	0.00606			
07	Lead	5	100	0.000009608	4.86855E-05	0.00004	1.2171375	20
07	m,p-Xylenes	5	100	0.00178	0.00346			
07	Manganese (Diet)	5	100	0.000006292	1.26493E-05			
07	Mercury	6	83.33	1.2861E-06	2.7787E-06			
07	Methacrylaldehyde	5	80	8.28823E-05	0.000482222			
07	Methyl Acetate	5	20	0.000643	0.000643			
07	Methyl tert-Butyl Ether	5	60	0.000817	0.00143	0.31185638	0.004585444	
07	Methylcyclohexane	5	80	0.000306	0.00187	0.424477366	0.004405417	
07	Methylene Chloride	5	100	0.000321	0.00112	0.166739632	0.006717059	
07	M-tolualdehyde	5	20	0.000641667	0.000641667			
07	Naphthalene	5	20	2.3539E-06	2.3539E-06	0.000199	0.011828643	
07	N-valeraldehyde	5	100	2.65781E-05	8.14276E-05			
07	o-Xylene	5	80	0.000701	0.00121	0.64474935	0.001876698	
07	Phenanthrene	5	100	5.2307E-06	1.97639E-05			
07	Propionaldehyde	5	100	3.14317E-05	0.0001848			
07	Pyrene	5	100	9.421E-07	6.01615E-06			
07	Styrene	5	100	0.000274	0.00115	7.92238593	0.000145158	
07	Tetrachloroethene	5	80	0.00222	0.00308	0.013022233	0.236518573	
07	Thallium	5	20	1.6483E-06	1.6483E-06			
07	Tin	5	80	1.6628E-06	4.2918E-06			
07	Toluene	5	100	0.00225	0.00529	1.34799501	0.003924347	
07	Total Carcinogenic PAHS (BaP TEQs)	5	100	4.76502E-07	1.27089E-05	0.000019	0.668889111	
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	1.06118E-10	1.18636E-09	2.1E-10	5.649328571	60
07	TOTAL HPCDD	5	100	8.606E-10	7.2075E-09			
07	TOTAL HPCDF	5	100	9.17E-10	2.9364E-09			
07	TOTAL HXCDD	5	100	1.5373E-09	2.32242E-08			
07	TOTAL HXCDF	5	100	1.3215E-09	8.5422E-09			
07	TOTAL PECDD	5	100	1.2676E-09	2.61605E-08			
07	TOTAL PECDF	5	100	1.4564E-09	1.22794E-08			
07	TOTAL TCDD	5	100	7.012E-10	1.922E-08			
07	TOTAL TCDF	5	100	1.1867E-09	1.41481E-08			
07	Total Trihalomethanes	5	60	0.000134	0.000234			
07	trans-1,3-Dichloropropene	5	20	0.00029	0.00029			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Dichlorodifluoromethane (Freon 12)	5	80	0.0014	0.00302			
07	Dieldrin	5	20	8.7431E-06	8.7431E-06			
07	Dimethylphthalate	5	60	6.676E-07	3.4233E-06			
07	Di-n-octylphthalate	5	40	2.6811E-06	0.00003842			
07	Endosulfan Sulfate	5	20	2.80686E-05	2.80686E-05			
07	Ethylbenzene	5	100	0.000677	0.00124			
07	Fluoranthene	5	100	1.8239E-06	8.0456E-06			
07	Fluorene	5	20	3.2324E-06	3.2324E-06			
07	Formaldehyde	5	100	0.00075645	0.0031			
07	Gravimetrics-PM10	5	100	0.043981821	0.058355438	0.15	0.389036251	
07	Hexachlorobutadiene	9	11.11	0.000315	0.000315			
07	Hexaldehyde	5	20	0.000289242	0.000289242			
07	Hexane	5	100	0.000922	0.0312			
07	Isobutyl Alcohol	5	80	0.00202	0.00606			
07	Lead	5	100	0.000009608	4.86855E-05	0.0015	0.032457	
07	m,p-Xylenes	5	100	0.00178	0.00346			
07	Manganese (Diet)	5	100	0.00006292	1.26493E-05			
07	Mercury	6	83.33	1.2861E-06	2.7787E-06			
07	Methacrylaldehyde	5	80	8.28823E-05	0.000482222			
07	Methyl Acetate	5	20	0.000643	0.000643			
07	Methyl tert-Butyl Ether	5	60	0.000817	0.00143			
07	Methylcyclohexane	5	80	0.000306	0.00187			
07	Methylene Chloride	5	100	0.000321	0.00112			
07	M-tolualdehyde	5	20	0.000641667	0.000641667			
07	Naphthalene	5	20	2.3539E-06	2.3539E-06			
07	N-valeraldehyde	5	100	2.65781E-05	8.14276E-05			
07	o-Xylene	5	80	0.000701	0.00121			
07	Phenanthrene	5	100	5.2307E-06	1.97639E-05			
07	Propionaldehyde	5	100	3.14317E-05	0.0001848			
07	Pyrene	5	100	9.421E-07	6.01615E-06			
07	Styrene	5	100	0.000274	0.00115			
07	Tetrachloroethene	5	80	0.00222	0.00308			
07	Thallium	5	20	1.6483E-06	1.6483E-06			
07	Tin	5	80	1.6628E-06	4.2918E-06			
07	Toluene	5	100	0.00225	0.00529			
07	Total Carcinogenic PAHS (BaP TEQs)	5	100	4.76502E-07	1.27089E-05			
07	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	1.06118E-10	1.18636E-09			
07	TOTAL HPCDD	5	100	8.606E-10	7.2075E-09			
07	TOTAL HPCDF	5	100	9.17E-10	2.9364E-09			
07	TOTAL HXCDD	5	100	1.5373E-09	2.32242E-08			
07	TOTAL HXCDF	5	100	1.3215E-09	8.5422E-09			
07	TOTAL PECDD	5	100	1.2676E-09	2.61605E-08			
07	TOTAL PECDF	5	100	1.4564E-09	1.22794E-08			
07	TOTAL TCDD	5	100	7.012E-10	1.922E-08			
07	TOTAL TCDF	5	100	1.1867E-09	1.41481E-08			
07	Total Trihalomethanes	5	60	0.000134	0.000234			
07	trans-1,3-Dichloropropene	5	20	0.00029	0.00029			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Trichloroethene	5	20	0.000316	0.000316	0.0012	0.263333333	
07	Trichlorofluoromethane	5	100	0.00112	0.00239			
07	Vinyl Acetate	5	80	0.00197	0.00343			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Trichloroethene	5	20	0.000316	0.000316			
07	Trichlorofluoromethane	5	100	0.00112	0.00239	0.73	0.003273973	
07	Vinyl Acetate	5	80	0.00197	0.00343	0.21	0.016333333	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
07	Trichloroethene	5	20	0.000316	0.000316	0.005158871	0.06125371	
07	Trichlorofluoromethane	5	100	0.00112	0.00239			
07	Vinyl Acetate	5	80	0.00197	0.00343			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
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07	Trichlorofluoromethane	5	100	0.00112	0.00239			
07	Vinyl Acetate	5	80	0.00197	0.00343			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-Trichloroethane	5	60	0.000169	0.000224			
08	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000381	0.000884			
08	1,2,3-Trichlorobenzene	5	20	0.00143	0.00143			
08	1,2,4-Trichlorobenzene	5	20	0.00168	0.00168			
08	1,2,4-Trimethylbenzene	5	100	0.000576	0.00239			
08	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	20	0.000334	0.000334			
08	1,2-Dichlorobenzene	5	40	0.000262	0.000287			
08	1,2-Dichloroethane	5	20	0.000178	0.000178	0.000094	1.893617021	20
08	1,2-Dichloropropane	5	80	0.00054	0.0044	0.00024	18.33333333	80
08	1,3,5-Trimethylbenzene	5	100	0.000166	0.000592			
08	1,4-Dichlorobenzene	5	60	0.000189	0.000195	0.00022	0.886363636	
08	2,4-Dimethylphenol	5	40	9.088E-07	3.1954E-06			
08	2-Butanone (methyl ethyl ketone)	5	100	0.000139952	0.00566			
08	2-Methylphenol (o-Cresol)	5	20	3.2525E-06	3.2525E-06			
08	3&4-Methylphenol	5	80	2.4529E-06	7.3324E-06			
08	4-Nitrophenol	5	40	2.6622E-06	2.9777E-06			
08	Acetaldehyde	5	100	0.001287967	0.0555	0.0011	50.45454545	100
08	Acetone	5	100	0.0169	0.103			
08	Acetonitrile	5	80	0.00126	0.00309			
08	Acetophenone	5	80	0.016	0.0305			
08	Acrolein	5	80	0.00199	0.00508			
08	Acrylonitrile	5	60	0.00031	0.000918	0.000036	25.5	60
08	Aluminum	5	100	0.00135368	0.002327056			
08	Anthracene	5	20	0.00000101	0.00000101			
08	Antimony	5	20	9.6675E-06	9.6675E-06			
08	Arsenic	5	80	2.208E-07	1.0473E-06	0.00000057	1.837368421	60
08	Barium	5	100	1.29153E-05	1.66471E-05			
08	Benzaldehyde	5	100	0.000305556	0.000913747			
08	Benzene	5	100	0.00172	0.00564	0.00031	18.19354839	100
08	Benzo(g,h,i)perylene	5	20	1.0528E-06	1.0528E-06			
08	Bis(2-ethylhexyl)phthalate	5	20	5.87566E-05	5.87566E-05			
08	Bromomethane	5	60	0.00027	0.000292			
08	Butyraldehyde	5	100	0.000197318	0.000463465			
08	Cadmium (Diet)	5	100	2.457E-07	6.985E-07			
08	Carbazole	5	20	4.954E-07	4.954E-07			
08	Carbon Disulfide	5	100	0.000301	0.00312			
08	Carbon Tetrachloride	5	100	0.000366	0.000974	0.00016	6.0875	100
08	Chloroform	5	80	0.000212	0.00048	0.00011	4.363636364	80
08	Chloromethane	5	80	0.0015	0.00238	0.0014	1.7	80
08	Chromium	5	100	1.59505E-06	6.0228E-06			
08	cis-1,3-Dichloropropene	5	60	0.000215	0.000372			
08	Cobalt	5	100	1.518E-07	3.399E-07			
08	Crotonaldehyde	5	60	0.000136574	0.000326389			
08	Cyclohexane	5	100	0.000231	0.00736			
08	Dichlorodifluoromethane (Freon 12)	5	100	0.00127	0.00233			
08	Dieldrin	5	20	4.9358E-06	4.9358E-06	0.00000053	9.312830189	20
08	Dimethylphthalate	5	100	3.623E-07	5.226E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-Trichloroethane	5	60	0.000169	0.000224	5.2	4.30769E-05	
08	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000381	0.000884	31	2.85161E-05	
08	1,2,3-Trichlorobenzene	5	20	0.00143	0.00143			
08	1,2,4-Trichlorobenzene	5	20	0.00168	0.00168			
08	1,2,4-Trimethylbenzene	5	100	0.000576	0.00239	0.0073	0.32739726	
08	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	20	0.000334	0.000334			
08	1,2-Dichlorobenzene	5	40	0.000262	0.000287	0.21	0.001366667	
08	1,2-Dichloroethane	5	20	0.000178	0.000178	2.5	0.0000712	
08	1,2-Dichloropropane	5	80	0.00054	0.0044	0.0042	1.047619048	60
08	1,3,5-Trimethylbenzene	5	100	0.000166	0.000592			
08	1,4-Dichlorobenzene	5	60	0.000189	0.000195	0.83	0.00023494	
08	2,4-Dimethylphenol	5	40	9.088E-07	3.1954E-06			
08	2-Butanone (methyl ethyl ketone)	5	100	0.000139952	0.00566	5.2	0.001088462	
08	2-Methylphenol (o-Cresol)	5	20	3.2525E-06	3.2525E-06			
08	3&4-Methylphenol	5	80	2.4529E-06	7.3324E-06			
08	4-Nitrophenol	5	40	2.6622E-06	2.9777E-06			
08	Acetaldehyde	5	100	0.001287967	0.0555	0.0094	5.904255319	80
08	Acetone	5	100	0.0169	0.103	32	0.00321875	
08	Acetonitrile	5	80	0.00126	0.00309	0.063	0.049047619	
08	Acetophenone	5	80	0.016	0.0305			
08	Acrolein	5	80	0.00199	0.00508	0.000021	241.9047619	80
08	Acrylonitrile	5	60	0.00031	0.000918	0.0021	0.437142857	
08	Aluminum	5	100	0.00135368	0.002327056	0.0052	0.447510769	
08	Anthracene	5	20	0.00000101	0.00000101			
08	Antimony	5	20	9.6675E-06	9.6675E-06			
08	Arsenic	5	80	2.208E-07	1.0473E-06	0.000031	0.033783871	
08	Barium	5	100	1.29153E-05	1.66471E-05	0.00052	0.032013654	
08	Benzaldehyde	5	100	0.000305556	0.000913747			
08	Benzene	5	100	0.00172	0.00564	0.031	0.181935484	
08	Benzo(g,h,i)perylene	5	20	1.0528E-06	1.0528E-06			
08	Bis(2-ethylhexyl)phthalate	5	20	5.87566E-05	5.87566E-05			
08	Bromomethane	5	60	0.00027	0.000292	0.0052	0.056153846	
08	Butyraldehyde	5	100	0.000197318	0.000463465			
08	Cadmium (Diet)	5	100	2.457E-07	6.985E-07			
08	Carbazole	5	20	4.954E-07	4.954E-07			
08	Carbon Disulfide	5	100	0.000301	0.00312	0.73	0.004273973	
08	Carbon Tetrachloride	5	100	0.000366	0.000974	0.2	0.00487	
08	Chloroform	5	80	0.000212	0.00048	0.1	0.0048	
08	Chloromethane	5	80	0.0015	0.00238	0.094	0.025319149	
08	Chromium	5	100	1.59505E-06	6.0228E-06			
08	cis-1,3-Dichloropropene	5	60	0.000215	0.000372			
08	Cobalt	5	100	1.518E-07	3.399E-07			
08	Crotonaldehyde	5	60	0.000136574	0.000326389			
08	Cyclohexane	5	100	0.000231	0.00736	6.3	0.001168254	
08	Dichlorodifluoromethane (Freon 12)	5	100	0.00127	0.00233	0.21	0.011095238	
08	Dieldrin	5	20	4.9358E-06	4.9358E-06			
08	Dimethylphthalate	5	100	3.623E-07	5.226E-07			

Table B-5
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Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	1,1,1-Trichloroethane	5	60	0.000169	0.000224	0.006110757	0.036656672	
08	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000381	0.000884			
08	1,2,3-Trichlorobenzene	5	20	0.00143	0.00143			
08	1,2,4-Trichlorobenzene	5	20	0.00168	0.00168	0.009350798	0.179663819	
08	1,2,4-Trimethylbenzene	5	100	0.000576	0.00239	0.418084233	0.005716551	
08	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	20	0.000334	0.000334			
08	1,2-Dichlorobenzene	5	40	0.000262	0.000287			
08	1,2-Dichloroethane	5	20	0.000178	0.000178	0.02234189	0.007967097	
08	1,2-Dichloropropane	5	80	0.00054	0.0044	0.002911399	1.511301042	60
08	1,3,5-Trimethylbenzene	5	100	0.000166	0.000592	0.13007065	0.004551373	
08	1,4-Dichlorobenzene	5	60	0.000189	0.000195	0.032466258	0.006006236	
08	2,4-Dimethylphenol	5	40	9.088E-07	3.1954E-06			
08	2-Butanone (methyl ethyl ketone)	5	100	0.000139952	0.00566	0.313790789	0.018037496	
08	2-Methylphenol (o-Cresol)	5	20	3.2525E-06	3.2525E-06			
08	3&4-Methylphenol	5	80	2.4529E-06	7.3324E-06			
08	4-Nitrophenol	5	40	2.6622E-06	2.9777E-06			
08	Acetaldehyde	5	100	0.001287967	0.0555	0.141257881	0.392898431	
08	Acetone	5	100	0.0169	0.103	8.166831902	0.01261199	
08	Acetonitrile	5	80	0.00126	0.00309	0.027535902	0.112217134	
08	Acetophenone	5	80	0.016	0.0305			
08	Acrolein	5	80	0.00199	0.00508	0.094923681	0.053516677	
08	Acrylonitrile	5	60	0.00031	0.000918	0.035158307	0.026110472	
08	Aluminum	5	100	0.00135368	0.002327056			
08	Anthracene	5	20	0.00000101	0.00000101			
08	Antimony	5	20	9.6675E-06	9.6675E-06			
08	Arsenic	5	80	2.208E-07	1.0473E-06	0.00003	0.03491	
08	Barium	5	100	1.29153E-05	1.66471E-05			
08	Benzaldehyde	5	100	0.000305556	0.000913747			
08	Benzene	5	100	0.00172	0.00564	0.0057	0.989473684	
08	Benzo(g,h,i)perylene	5	20	1.0528E-06	1.0528E-06			
08	Bis(2-ethylhexyl)phthalate	5	20	5.87566E-05	5.87566E-05			
08	Bromomethane	5	60	0.00027	0.000292			
08	Butyraldehyde	5	100	0.000197318	0.000463465			
08	Cadmium (Diet)	5	100	2.457E-07	6.985E-07			
08	Carbazole	5	20	4.954E-07	4.954E-07			
08	Carbon Disulfide	5	100	0.000301	0.00312	0.001120933	2.783396821	60
08	Carbon Tetrachloride	5	100	0.000366	0.000974	0.0007	1.391428571	60
08	Chloroform	5	80	0.000212	0.00048	0.0003	1.6	40
08	Chloromethane	5	80	0.0015	0.00238	0.02465549	0.096530227	
08	Chromium	5	100	1.59505E-06	6.0228E-06			
08	cis-1,3-Dichloropropene	5	60	0.000215	0.000372			
08	Cobalt	5	100	1.518E-07	3.399E-07			
08	Crotonaldehyde	5	60	0.000136574	0.000326389			
08	Cyclohexane	5	100	0.000231	0.00736	2.49075254	0.00295493	
08	Dichlorodifluoromethane (Freon 12)	5	100	0.00127	0.00233			
08	Dieldrin	5	20	4.9358E-06	4.9358E-06	0.00000165	2.991393939	20
08	Dimethylphthalate	5	100	3.623E-07	5.226E-07			

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						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
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08	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000381	0.000884			
08	1,2,3-Trichlorobenzene	5	20	0.00143	0.00143			
08	1,2,4-Trichlorobenzene	5	20	0.00168	0.00168			
08	1,2,4-Trimethylbenzene	5	100	0.000576	0.00239			
08	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	20	0.000334	0.000334			
08	1,2-Dichlorobenzene	5	40	0.000262	0.000287			
08	1,2-Dichloroethane	5	20	0.000178	0.000178			
08	1,2-Dichloropropane	5	80	0.00054	0.0044			
08	1,3,5-Trimethylbenzene	5	100	0.000166	0.000592			
08	1,4-Dichlorobenzene	5	60	0.000189	0.000195			
08	2,4-Dimethylphenol	5	40	9.088E-07	3.1954E-06			
08	2-Butanone (methyl ethyl ketone)	5	100	0.00013952	0.00566			
08	2-Methylphenol (o-Cresol)	5	20	3.2525E-06	3.2525E-06			
08	3&4-Methylphenol	5	80	2.4529E-06	7.3324E-06			
08	4-Nitrophenol	5	40	2.6622E-06	2.9777E-06			
08	Acetaldehyde	5	100	0.001287967	0.0555			
08	Acetone	5	100	0.0169	0.103			
08	Acetonitrile	5	80	0.00126	0.00309			
08	Acetophenone	5	80	0.016	0.0305			
08	Acrolein	5	80	0.00199	0.00508			
08	Acrylonitrile	5	60	0.00031	0.000918			
08	Aluminum	5	100	0.00135368	0.002327056			
08	Anthracene	5	20	0.00000101	0.00000101			
08	Antimony	5	20	9.6675E-06	9.6675E-06			
08	Arsenic	5	80	2.208E-07	1.0473E-06			
08	Barium	5	100	1.29153E-05	1.66471E-05			
08	Benzaldehyde	5	100	0.000305556	0.000913747			
08	Benzene	5	100	0.00172	0.00564			
08	Benzo(g,h,i)perylene	5	20	1.0528E-06	1.0528E-06			
08	Bis(2-ethylhexyl)phthalate	5	20	5.87566E-05	5.87566E-05			
08	Bromomethane	5	60	0.00027	0.000292			
08	Butyraldehyde	5	100	0.000197318	0.000463465			
08	Cadmium (Diet)	5	100	2.457E-07	6.985E-07			
08	Carbazole	5	20	4.954E-07	4.954E-07			
08	Carbon Disulfide	5	100	0.000301	0.00312			
08	Carbon Tetrachloride	5	100	0.000366	0.000974			
08	Chloroform	5	80	0.000212	0.00048			
08	Chloromethane	5	80	0.0015	0.00238			
08	Chromium	5	100	1.59505E-06	6.0228E-06			
08	cis-1,3-Dichloropropene	5	60	0.000215	0.000372			
08	Cobalt	5	100	1.518E-07	3.399E-07			
08	Crotonaldehyde	5	60	0.000136574	0.000326389			
08	Cyclohexane	5	100	0.000231	0.00736			
08	Dichlorodifluoromethane (Freon 12)	5	100	0.00127	0.00233			
08	Dieldrin	5	20	4.9358E-06	4.9358E-06			
08	Dimethylphthalate	5	100	3.623E-07	5.226E-07			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Ethylbenzene	5	100	0.000694	0.00252	0.00097	2.597938144	80
08	Fluoranthene	5	100	0.00001917	4.5897E-06			
08	Fluorene	5	20	2.6962E-06	2.6962E-06			
08	Formaldehyde	5	100	0.001024904	0.00275463	0.00019	14.49805053	100
08	Gravimetrics-PM10	5	100	0.032349896	0.062821245			
08	Hexachlorobutadiene	8	50	0.00032	0.000941	0.00011	8.554545455	50
08	Hexaldehyde	5	60	0.00021142	0.000384362			
08	Hexane	5	100	0.00285	0.252			
08	Isobutyl Alcohol	5	80	0.00168	0.0155			
08	Isopropylbenzene	5	20	0.000305	0.000305			
08	Lead	5	100	8.0218E-06	2.81387E-05			
08	m,p-Xylenes	5	100	0.00144	0.00743			
08	Manganese (Diet)	5	100	1.14647E-05	2.27633E-05			
08	Mercury	5	100	1.5826E-06	1.8944E-06			
08	Methacrylaldehyde	5	80	6.01788E-05	0.000831601			
08	Methyl Acetate	5	20	0.00074	0.00074			
08	Methyl tert-Butyl Ether	5	80	0.000828	0.00325	0.0094	0.345744681	
08	Methylcyclohexane	5	80	0.000301	0.00772			
08	Methylene Chloride	5	100	0.000279	0.00116	0.0052	0.223076923	
08	Naphthalene	5	20	1.3254E-06	1.3254E-06	0.000072	0.018408333	
08	N-valeraldehyde	5	100	0.000064751	0.000103443			
08	o-Xylene	5	100	0.000596	0.00281			
08	Phenanthrene	5	80	3.4929E-06	6.8474E-06			
08	Propionaldehyde	5	100	0.000131944	0.000168982			
08	Pyrene	5	100	1.6923E-06	0.000003617			
08	Styrene	5	80	0.00057	0.00147			
08	Tetrachloroethene	5	80	0.00175	0.00227	0.00041	5.536585366	80
08	Tin	5	40	2.7709E-06	5.9662E-06			
08	Toluene	5	100	0.00277	0.0118			
08	Total Carcinogenic PAHS (BaP TEQs)	5	60	7.582E-10	1.4225E-09	0.00000087	0.001635057	
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	5.8415E-11	1.77608E-10	6.4E-11	2.775125	80
08	TOTAL HPCDD	5	100	4.153E-10	9.107E-10			
08	TOTAL HPCDF	5	100	3.178E-10	1.7303E-09			
08	TOTAL HXCDD	5	100	8.306E-10	1.6393E-09			
08	TOTAL HXCDF	5	100	6.23E-10	1.6392E-09			
08	TOTAL PECDD	5	100	4.553E-10	1.7451E-09			
08	TOTAL PECDF	5	100	7.527E-10	1.5022E-09			
08	TOTAL TCDD	5	100	3.643E-10	1.1634E-09			
08	TOTAL TCDF	5	100	9.107E-10	1.5865E-09			
08	Total Trihalomethanes	5	80	0.000212	0.00048			
08	trans-1,3-Dichloropropene	5	60	0.000173	0.000349			
08	Trichlorofluoromethane	5	100	0.00109	0.00351			
08	Vanadium	5	20	1.61055E-05	1.61055E-05			
08	Vinyl Acetate	5	80	0.00267	0.00506			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Ethylbenzene	5	100	0.000694	0.00252	1	0.00252	
08	Fluoranthene	5	100	0.00001917	4.5897E-06			
08	Fluorene	5	20	2.6962E-06	2.6962E-06			
08	Formaldehyde	5	100	0.001024904	0.00275463	0.01	0.27546296	
08	Gravimetrics-PM10	5	100	0.032349896	0.062821245			
08	Hexachlorobutadiene	8	50	0.00032	0.000941			
08	Hexaldehyde	5	60	0.00021142	0.000384362			
08	Hexane	5	100	0.00285	0.252	0.73	0.345205479	
08	Isobutyl Alcohol	5	80	0.00168	0.0155			
08	Isopropylbenzene	5	20	0.000305	0.000305	0.42	0.00072619	
08	Lead	5	100	8.0218E-06	2.81387E-05	0.0017	0.016552176	
08	m,p-Xylenes	5	100	0.00144	0.00743	0.1	0.0743	
08	Manganese (Diet)	5	100	1.14647E-05	2.27633E-05			
08	Mercury	5	100	1.5826E-06	1.8944E-06	0.00031	0.006110968	
08	Methacrylaldehyde	5	80	6.01788E-05	0.000831601			
08	Methyl Acetate	5	20	0.00074	0.00074			
08	Methyl tert-Butyl Ether	5	80	0.000828	0.00325	3.1	0.001048387	
08	Methylcyclohexane	5	80	0.000301	0.00772	3.1	0.002490323	
08	Methylene Chloride	5	100	0.000279	0.00116	1.1	0.001054545	
08	Naphthalene	5	20	1.3254E-06	1.3254E-06	0.0031	0.000427548	
08	N-valeraldehyde	5	100	0.000064751	0.000103443			
08	o-Xylene	5	100	0.000596	0.00281	0.73	0.003849315	
08	Phenanthrene	5	80	3.4929E-06	6.8474E-06			
08	Propionaldehyde	5	100	0.000131944	0.000168982			
08	Pyrene	5	100	1.6923E-06	0.000003617			
08	Styrene	5	80	0.00057	0.00147	1	0.00147	
08	Tetrachloroethene	5	80	0.00175	0.00227	0.28	0.008107143	
08	Tin	5	40	2.7709E-06	5.9662E-06			
08	Toluene	5	100	0.00277	0.0118	5.2	0.002269231	
08	Total Carcinogenic PAHS (BaP TEQs)	5	60	7.582E-10	1.4225E-09			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	5.8415E-11	1.77608E-10			
08	TOTAL HPCDD	5	100	4.153E-10	9.107E-10			
08	TOTAL HPCDF	5	100	3.178E-10	1.7303E-09			
08	TOTAL HXCDD	5	100	8.306E-10	1.6393E-09			
08	TOTAL HXCDF	5	100	6.23E-10	1.6392E-09			
08	TOTAL PECDD	5	100	4.553E-10	1.7451E-09			
08	TOTAL PECDF	5	100	7.527E-10	1.5022E-09			
08	TOTAL TCDD	5	100	3.643E-10	1.1634E-09			
08	TOTAL TCDF	5	100	9.107E-10	1.5865E-09			
08	Total Trihalomethanes	5	80	0.000212	0.00048			
08	trans-1,3-Dichloropropene	5	60	0.000173	0.000349			
08	Trichlorofluoromethane	5	100	0.00109	0.00351	0.73	0.004808219	
08	Vanadium	5	20	1.61055E-05	1.61055E-05			
08	Vinyl Acetate	5	80	0.00267	0.00506	0.21	0.024095238	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Ethylbenzene	5	100	0.000694	0.00252	0.628074798	0.004012261	
08	Fluoranthene	5	100	0.00001917	4.5897E-06			
08	Fluorene	5	20	2.6962E-06	2.6962E-06			
08	Formaldehyde	5	100	0.001024904	0.00275463	0.0079	0.348687291	
08	Gravimetrics-PM10	5	100	0.032349896	0.062821245			
08	Hexachlorobutadiene	8	50	0.00032	0.000941	0.004095372	0.229771569	
08	Hexaldehyde	5	60	0.00021142	0.000384362			
08	Hexane	5	100	0.00285	0.252	3.079532452	0.081830604	
08	Isobutyl Alcohol	5	80	0.00168	0.0155			
08	Isopropylbenzene	5	20	0.000305	0.000305	5.630201006	5.41721E-05	
08	Lead	5	100	8.0218E-05	2.81387E-05	0.00004	0.7034675	
08	m,p-Xylenes	5	100	0.00144	0.00743			
08	Manganese (Diet)	5	100	1.14647E-05	2.27633E-05			
08	Mercury	5	100	1.5826E-06	1.8944E-06			
08	Methacrylaldehyde	5	80	6.01788E-05	0.000831601			
08	Methyl Acetate	5	20	0.00074	0.00074			
08	Methyl tert-Butyl Ether	5	80	0.000828	0.00325	0.31185638	0.010421464	
08	Methylcyclohexane	5	80	0.000301	0.00772	0.424477366	0.018187071	
08	Methylene Chloride	5	100	0.000279	0.00116	0.166739632	0.006956954	
08	Naphthalene	5	20	1.3254E-06	1.3254E-06	0.000199	0.006660302	
08	N-valeraldehyde	5	100	0.000064751	0.000103443			
08	o-Xylene	5	100	0.000596	0.00281	0.64474935	0.004358283	
08	Phenanthrene	5	80	3.4929E-06	6.8474E-06			
08	Propionaldehyde	5	100	0.000131944	0.000168982			
08	Pyrene	5	100	1.6923E-06	0.000003617			
08	Styrene	5	80	0.00057	0.00147	7.92238593	0.00018555	
08	Tetrachloroethene	5	80	0.00175	0.00227	0.013022233	0.17431726	
08	Tin	5	40	2.7709E-06	5.9662E-06			
08	Toluene	5	100	0.00277	0.0118	1.34799501	0.008753742	
08	Total Carcinogenic PAHS (BaP TEQs)	5	60	7.582E-10	1.4225E-09	0.000019	7.48684E-05	
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	5.8415E-11	1.77608E-10	2.1E-10	0.845752381	
08	TOTAL HPCDD	5	100	4.153E-10	9.107E-10			
08	TOTAL HPCDF	5	100	3.178E-10	1.7303E-09			
08	TOTAL HXCDD	5	100	8.306E-10	1.6393E-09			
08	TOTAL HXCDF	5	100	6.23E-10	1.6392E-09			
08	TOTAL PECDD	5	100	4.553E-10	1.7451E-09			
08	TOTAL PECDF	5	100	7.527E-10	1.5022E-09			
08	TOTAL TCDD	5	100	3.643E-10	1.1634E-09			
08	TOTAL TCDF	5	100	9.107E-10	1.5865E-09			
08	Total Trihalomethanes	5	80	0.000212	0.00048			
08	trans-1,3-Dichloropropene	5	60	0.000173	0.000349			
08	Trichlorofluoromethane	5	100	0.00109	0.00351			
08	Vanadium	5	20	1.61055E-05	1.61055E-05			
08	Vinyl Acetate	5	80	0.00267	0.00506			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
08	Ethylbenzene	5	100	0.000694	0.00252			
08	Fluoranthene	5	100	0.000001917	4.5897E-06			
08	Fluorene	5	20	2.6962E-06	2.6962E-06			
08	Formaldehyde	5	100	0.001024904	0.00275463			
08	Gravimetrics-PM10	5	100	0.032349896	0.062821245	0.15	0.4188083	
08	Hexachlorobutadiene	8	50	0.00032	0.000941			
08	Hexaldehyde	5	60	0.00021142	0.000384362			
08	Hexane	5	100	0.00285	0.252			
08	Isobutyl Alcohol	5	80	0.00168	0.0155			
08	Isopropylbenzene	5	20	0.000305	0.000305			
08	Lead	5	100	8.0218E-06	2.81387E-05	0.0015	0.018759133	
08	m,p-Xylenes	5	100	0.00144	0.00743			
08	Manganese (Diet)	5	100	1.14647E-05	2.27633E-05			
08	Mercury	5	100	1.5826E-06	1.8944E-06			
08	Methacrylaldehyde	5	80	6.01788E-05	0.000831601			
08	Methyl Acetate	5	20	0.00074	0.00074			
08	Methyl tert-Butyl Ether	5	80	0.000828	0.00325			
08	Methylcyclohexane	5	80	0.000301	0.00772			
08	Methylene Chloride	5	100	0.000279	0.00116			
08	Naphthalene	5	20	1.3254E-06	1.3254E-06			
08	N-valeraldehyde	5	100	0.000064751	0.000103443			
08	o-Xylene	5	100	0.000596	0.00281			
08	Phenanthrene	5	80	3.4929E-06	6.8474E-06			
08	Propionaldehyde	5	100	0.000131944	0.000168982			
08	Pyrene	5	100	1.6923E-06	0.000003617			
08	Styrene	5	80	0.00057	0.00147			
08	Tetrachloroethene	5	80	0.00175	0.00227			
08	Tin	5	40	2.7709E-06	5.9662E-06			
08	Toluene	5	100	0.00277	0.0118			
08	Total Carcinogenic PAHS (BaP TEQs)	5	60	7.582E-10	1.4225E-09			
08	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	5.8415E-11	1.77608E-10			
08	TOTAL HPCDD	5	100	4.153E-10	9.107E-10			
08	TOTAL HPCDF	5	100	3.178E-10	1.7303E-09			
08	TOTAL HXCDD	5	100	8.306E-10	1.6393E-09			
08	TOTAL HXCDF	5	100	6.23E-10	1.6392E-09			
08	TOTAL PECDD	5	100	4.553E-10	1.7451E-09			
08	TOTAL PECDF	5	100	7.527E-10	1.5022E-09			
08	TOTAL TCDD	5	100	3.643E-10	1.1634E-09			
08	TOTAL TCDF	5	100	9.107E-10	1.5865E-09			
08	Total Trihalomethanes	5	80	0.000212	0.00048			
08	trans-1,3-Dichloropropene	5	60	0.000173	0.000349			
08	Trichlorofluoromethane	5	100	0.00109	0.00351			
08	Vanadium	5	20	1.61055E-05	1.61055E-05			
08	Vinyl Acetate	5	80	0.00267	0.00506			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	1,1,1-Trichloroethane	5	60	0.000168	0.000256			
09	1,1,2,2-Tetrachloroethane	5	20	0.000362	0.000362	0.000042	8.619047619	20
09	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000706	0.000913			
09	1,1-Dichloroethene	5	20	0.000182	0.000182			
09	1,2,3-Trichlorobenzene	5	20	0.00179	0.00179			
09	1,2,4-Trichlorobenzene	5	20	0.00161	0.00161			
09	1,2,4-Trimethylbenzene	5	80	0.000903	0.00198			
09	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	60	0.000269	0.000503			
09	1,2-Dichlorobenzene	5	20	0.000343	0.000343			
09	1,2-Dichloroethane	5	20	0.000161	0.000161	0.000094	1.712765957	20
09	1,2-Dichloropropane	5	100	0.00114	0.00488	0.00024	20.33333333	100
09	1,3,5-Trimethylbenzene	5	80	0.000266	0.00064			
09	1,3-Butadiene	5	40	0.00054	0.000659	0.000081	8.135802469	40
09	1,3-Dichlorobenzene	5	20	0.000276	0.000276			
09	1,4-Dichlorobenzene	5	20	0.000324	0.000324	0.00022	1.472727273	20
09	2,4-Dichlorophenol	5	40	1.9181E-06	2.2674E-06			
09	2,4-Dimethylphenol	5	60	2.0509E-06	3.1224E-06			
09	2,6-Dichlorophenol	5	40	1.2689E-06	0.00001389			
09	2-Butanone (methyl ethyl ketone)	5	100	0.00212	0.00375			
09	2-Methylphenol (o-Cresol)	5	20	1.9822E-06	1.9822E-06			
09	2-Nitrophenol	5	20	6.245E-07	6.245E-07			
09	3&4-Methylphenol	5	60	4.2494E-06	8.3241E-06			
09	4-Nitrophenol	5	40	2.6448E-06	3.9543E-06			
09	Acetaldehyde	5	100	0.0275	0.0493	0.0011	44.81818182	100
09	Acetone	5	100	0.0148	0.0202			
09	Acetonitrile	5	100	0.000796	0.00228			
09	Acetophenone	5	80	0.0199	0.076			
09	Acrolein	5	80	0.00166	0.00197			
09	Acrylonitrile	5	40	0.000423	0.000771	0.000036	21.41666667	40
09	alpha-Chlordane	5	20	1.0719E-06	1.0719E-06			
09	Aluminum	5	100	0.000252886	0.001958766			
09	Anthracene	5	40	3.205E-07	8.1176E-06			
09	Arsenic	5	80	2.955E-07	1.6008E-06	0.00000057	2.808421053	40
09	Barium	5	100	5.6622E-06	1.67575E-05			
09	Benzaldehyde	5	100	0.000440007	0.001170618			
09	Benzene	5	100	0.000783	0.00203	0.00031	6.548387097	100
09	Benzo(g,h,i)perylene	5	20	4.367E-07	4.367E-07			
09	Bromomethane	5	40	0.000298	0.00039			
09	Butylbenzylphthalate	5	40	0.000046753	0.000110245			
09	Butyraldehyde	5	100	0.000184362	0.000288743			
09	Cadmium (Diet)	5	80	0.000000155	0.00000062			
09	Carbon Disulfide	5	100	0.00039	0.00311			
09	Carbon Tetrachloride	5	100	0.000646	0.000806	0.00016	5.0375	100
09	Chloroethane	5	20	0.000217	0.000217			
09	Chloroform	5	60	0.000182	0.000321	0.00011	2.918181818	60
09	Chloromethane	5	100	0.00175	0.0386	0.0014	27.57142857	100
09	Chromium	5	100	4.591E-07	2.85215E-05			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	1,1,1-Trichloroethane	5	60	0.000168	0.000256	5.2	4.92308E-05	
09	1,1,2,2-Tetrachloroethane	5	20	0.000362	0.000362			
09	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000706	0.000913	31	2.94516E-05	
09	1,1-Dichloroethene	5	20	0.000182	0.000182	0.21	0.000866667	
09	1,2,3-Trichlorobenzene	5	20	0.00179	0.00179			
09	1,2,4-Trichlorobenzene	5	20	0.00161	0.00161			
09	1,2,4-Trimethylbenzene	5	80	0.000903	0.00198	0.0073	0.271232877	
09	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	60	0.000269	0.000503			
09	1,2-Dichlorobenzene	5	20	0.000343	0.000343	0.21	0.001633333	
09	1,2-Dichloroethane	5	20	0.000161	0.000161	2.5	0.0000644	
09	1,2-Dichloropropane	5	100	0.00114	0.00488	0.0042	1.161904762	60
09	1,3,5-Trimethylbenzene	5	80	0.000266	0.00064			
09	1,3-Butadiene	5	40	0.00054	0.000659	0.0021	0.313809524	
09	1,3-Dichlorobenzene	5	20	0.000276	0.000276			
09	1,4-Dichlorobenzene	5	20	0.000324	0.000324	0.83	0.000390361	
09	2,4-Dichlorophenol	5	40	1.9181E-06	2.2674E-06			
09	2,4-Dimethylphenol	5	60	2.0509E-06	3.1224E-06			
09	2,6-Dichlorophenol	5	40	1.2689E-06	0.00001389			
09	2-Butanone (methyl ethyl ketone)	5	100	0.00212	0.00375	5.2	0.000721154	
09	2-Methylphenol (o-Cresol)	5	20	1.9822E-06	1.9822E-06			
09	2-Nitrophenol	5	20	6.245E-07	6.245E-07			
09	3&4-Methylphenol	5	60	4.2494E-06	8.3241E-06			
09	4-Nitrophenol	5	40	2.6448E-06	3.9543E-06			
09	Acetaldehyde	5	100	0.0275	0.0493	0.0094	5.244680851	100
09	Acetone	5	100	0.0148	0.0202	32	0.00063125	
09	Acetonitrile	5	100	0.000796	0.00228	0.063	0.036190476	
09	Acetophenone	5	80	0.0199	0.076			
09	Acrolein	5	80	0.00166	0.00197	0.000021	93.80952381	80
09	Acrylonitrile	5	40	0.000423	0.000771	0.0021	0.367142857	
09	alpha-Chlordane	5	20	1.0719E-06	1.0719E-06			
09	Aluminum	5	100	0.000252886	0.001958766	0.0052	0.376685788	
09	Anthracene	5	40	3.205E-07	8.1176E-06			
09	Arsenic	5	80	2.955E-07	1.6008E-06	0.000031	0.05163871	
09	Barium	5	100	5.6622E-06	1.67575E-05	0.00052	0.032225962	
09	Benzaldehyde	5	100	0.000440007	0.001170618			
09	Benzene	5	100	0.000783	0.00203	0.031	0.065483871	
09	Benzo(g,h,i)perylene	5	20	4.367E-07	4.367E-07			
09	Bromomethane	5	40	0.000298	0.00039	0.0052	0.075	
09	Butylbenzylphthalate	5	40	0.000046753	0.000110245			
09	Butyraldehyde	5	100	0.000184362	0.000288743			
09	Cadmium (Diet)	5	80	0.000000155	0.00000062			
09	Carbon Disulfide	5	100	0.00039	0.00311	0.73	0.004260274	
09	Carbon Tetrachloride	5	100	0.000646	0.000806	0.2	0.00403	
09	Chloroethane	5	20	0.000217	0.000217	10	0.0000217	
09	Chloroform	5	60	0.000182	0.000321	0.1	0.00321	
09	Chloromethane	5	100	0.00175	0.0386	0.094	0.410638298	
09	Chromium	5	100	4.591E-07	2.85215E-05			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	1,1,1-Trichloroethane	5	60	0.000168	0.000256	0.006110757	0.041893339	
09	1,1,2,2-Tetrachloroethane	5	20	0.000362	0.000362	0.000686503	0.527310098	
09	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000706	0.000913			
09	1,1-Dichloroethene	5	20	0.000182	0.000182	0.000951598	0.191257324	
09	1,2,3-Trichlorobenzene	5	20	0.00179	0.00179			
09	1,2,4-Trichlorobenzene	5	20	0.00161	0.00161	0.009350798	0.172177827	
09	1,2,4-Trimethylbenzene	5	80	0.000903	0.00198	0.418084233	0.004735888	
09	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	60	0.000269	0.000503			
09	1,2-Dichlorobenzene	5	20	0.000343	0.000343			
09	1,2-Dichloroethane	5	20	0.000161	0.000161	0.02234189	0.007206194	
09	1,2-Dichloropropane	5	100	0.00114	0.00488	0.002911399	1.676170247	80
09	1,3,5-Trimethylbenzene	5	80	0.000266	0.00064	0.13007065	0.004920403	
09	1,3-Butadiene	5	40	0.00054	0.000659	0.248840723	0.00264828	
09	1,3-Dichlorobenzene	5	20	0.000276	0.000276			
09	1,4-Dichlorobenzene	5	20	0.000324	0.000324	0.032466258	0.009979592	
09	2,4-Dichlorophenol	5	40	1.9181E-06	2.2674E-06			
09	2,4-Dimethylphenol	5	60	2.0509E-06	3.1224E-06			
09	2,6-Dichlorophenol	5	40	1.2689E-06	0.00001389			
09	2-Butanone (methyl ethyl ketone)	5	100	0.00212	0.00375	0.313790789	0.011950638	
09	2-Methylphenol (o-Cresol)	5	20	1.9822E-06	1.9822E-06			
09	2-Nitrophenol	5	20	6.245E-07	6.245E-07			
09	3&4-Methylphenol	5	60	4.2494E-06	8.3241E-06			
09	4-Nitrophenol	5	40	2.6448E-06	3.9543E-06			
09	Acetaldehyde	5	100	0.0275	0.0493	0.141257881	0.349007075	
09	Acetone	5	100	0.0148	0.0202	8.166831902	0.002473419	
09	Acetonitrile	5	100	0.000796	0.00228	0.027535902	0.082800992	
09	Acetophenone	5	80	0.0199	0.076			
09	Acrolein	5	80	0.00166	0.00197	0.094923681	0.020753515	
09	Acrylonitrile	5	40	0.000423	0.000771	0.035158307	0.021929384	
09	alpha-Chlordane	5	20	1.0719E-06	1.0719E-06			
09	Aluminum	5	100	0.000252886	0.001958766			
09	Anthracene	5	40	3.205E-07	8.1176E-06			
09	Arsenic	5	80	2.955E-07	1.6008E-06	0.00003	0.05336	
09	Barium	5	100	5.6622E-06	1.67575E-05			
09	Benzaldehyde	5	100	0.000440007	0.001170618			
09	Benzene	5	100	0.000783	0.00203	0.0057	0.356140351	
09	Benzo(g,h,i)perylene	5	20	4.367E-07	4.367E-07			
09	Bromomethane	5	40	0.000298	0.00039			
09	Butylbenzylphthalate	5	40	0.000046753	0.000110245			
09	Butyraldehyde	5	100	0.000184362	0.000288743			
09	Cadmium (Diet)	5	80	0.000000155	0.00000062			
09	Carbon Disulfide	5	100	0.00039	0.00311	0.001120933	2.774475678	80
09	Carbon Tetrachloride	5	100	0.000646	0.000806	0.0007	1.151428571	60
09	Chloroethane	5	20	0.000217	0.000217	0.008528118	0.02544524	
09	Chloroform	5	60	0.000182	0.000321	0.0003	1.07	20
09	Chloromethane	5	100	0.00175	0.0386	0.02465549	1.565574267	20
09	Chromium	5	100	4.591E-07	2.85215E-05			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	1,1,1-Trichloroethane	5	60	0.000168	0.000256			
09	1,1,2,2-Tetrachloroethane	5	20	0.000362	0.000362			
09	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	100	0.000706	0.000913			
09	1,1-Dichloroethene	5	20	0.000182	0.000182			
09	1,2,3-Trichlorobenzene	5	20	0.00179	0.00179			
09	1,2,4-Trichlorobenzene	5	20	0.00161	0.00161			
09	1,2,4-Trimethylbenzene	5	80	0.000903	0.00198			
09	1,2-Dichloro-1,1,2,2-Tetrafluoroethane (Freon 114)	5	60	0.000269	0.000503			
09	1,2-Dichlorobenzene	5	20	0.000343	0.000343			
09	1,2-Dichloroethane	5	20	0.000161	0.000161			
09	1,2-Dichloropropane	5	100	0.00114	0.00488			
09	1,3,5-Trimethylbenzene	5	80	0.000266	0.00064			
09	1,3-Butadiene	5	40	0.00054	0.000659			
09	1,3-Dichlorobenzene	5	20	0.000276	0.000276			
09	1,4-Dichlorobenzene	5	20	0.000324	0.000324			
09	2,4-Dichlorophenol	5	40	1.9181E-06	2.2674E-06			
09	2,4-Dimethylphenol	5	60	2.0509E-06	3.1224E-06			
09	2,6-Dichlorophenol	5	40	1.2689E-06	0.00001389			
09	2-Butanone (methyl ethyl ketone)	5	100	0.00212	0.00375			
09	2-Methylphenol (o-Cresol)	5	20	1.9822E-06	1.9822E-06			
09	2-Nitrophenol	5	20	6.245E-07	6.245E-07			
09	3&4-Methylphenol	5	60	4.2494E-06	8.3241E-06			
09	4-Nitrophenol	5	40	2.6448E-06	3.9543E-06			
09	Acetaldehyde	5	100	0.0275	0.0493			
09	Acetone	5	100	0.0148	0.0202			
09	Acetonitrile	5	100	0.000796	0.00228			
09	Acetophenone	5	80	0.0199	0.076			
09	Acrolein	5	80	0.00166	0.00197			
09	Acrylonitrile	5	40	0.000423	0.000771			
09	alpha-Chlordane	5	20	1.0719E-06	1.0719E-06			
09	Aluminum	5	100	0.000252886	0.001958766			
09	Anthracene	5	40	3.205E-07	8.1176E-06			
09	Arsenic	5	80	2.955E-07	1.6008E-06			
09	Barium	5	100	5.6622E-06	1.67575E-05			
09	Benzaldehyde	5	100	0.000440007	0.001170618			
09	Benzene	5	100	0.000783	0.00203			
09	Benzo(g,h,i)perylene	5	20	4.367E-07	4.367E-07			
09	Bromomethane	5	40	0.000298	0.00039			
09	Butylbenzylphthalate	5	40	0.000046753	0.000110245			
09	Butyraldehyde	5	100	0.000184362	0.000288743			
09	Cadmium (Diet)	5	80	0.000000155	0.00000062			
09	Carbon Disulfide	5	100	0.00039	0.00311			
09	Carbon Tetrachloride	5	100	0.000646	0.000806			
09	Chloroethane	5	20	0.000217	0.000217			
09	Chloroform	5	60	0.000182	0.000321			
09	Chloromethane	5	100	0.00175	0.0386			
09	Chromium	5	100	4.591E-07	2.85215E-05			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	cis-1,2-Dichloroethene	5	20	0.000194	0.000194			
09	Cobalt	5	80	2.328E-07	6.088E-07			
09	Crotonaldehyde	5	40	2.34577E-05	3.24653E-05			
09	Cyclohexane	5	60	0.000192	0.00059			
09	Dibenzofuran	5	20	2.749E-07	2.749E-07			
09	Dichlorodifluoromethane (Freon 12)	5	100	0.000487	0.00297			
09	Dieldrin	5	20	1.5597E-06	1.5597E-06	0.00000053	2.942830189	20
09	Dimethylphthalate	5	60	6.551E-07	2.7589E-06			
09	Di-n-butylphthalate	5	100	4.96795E-05	0.000112433			
09	Di-n-octylphthalate	5	20	4.5673E-06	4.5673E-06			
09	Ethylbenzene	5	100	0.00103	0.00287	0.00097	2.958762887	100
09	Fluoranthene	5	100	1.2607E-06	3.8697E-06			
09	Formaldehyde	5	100	0.001357192	0.004345918	0.00019	22.87325	100
09	Gravimetrics-PM10	5	100	0.057670127	0.068767908			
09	Hexachlorobutadiene	8	37.5	0.000259	0.000943	0.00011	8.572727273	37.5
09	Hexaldehyde	5	20	0.000215208	0.000215208			
09	Hexane	5	100	0.00115	0.148			
09	Isobutyl Alcohol	5	100	0.00114	0.00376			
09	Isopropylbenzene	5	20	0.000262	0.000262			
09	Lead	5	100	4.3614E-06	3.39327E-05			
09	m,p-Xylenes	5	100	0.00336	0.00991			
09	Manganese (Diet)	5	100	5.6622E-06	2.00665E-05			
09	Mercury	5	100	1.6861E-06	2.6565E-06			
09	Methacrylaldehyde	5	100	3.04688E-05	0.000295581			
09	Methyl Acetate	5	20	0.000863	0.000863			
09	Methyl tert-Butyl Ether	5	100	0.00196	0.00304	0.0094	0.323404255	
09	Methylcyclohexane	5	40	0.000301	0.000478			
09	Methylene Chloride	5	100	0.000567	0.000824	0.0052	0.158461538	
09	Naphthalene	5	20	1.9289E-06	1.9289E-06	0.000072	0.026790278	
09	N-valeraldehyde	5	100	6.80057E-05	0.000116959			
09	o-Xylene	5	100	0.00122	0.00286			
09	Phenanthrene	5	100	5.9295E-06	8.3749E-06			
09	Phenol	5	20	1.3929E-06	1.3929E-06			
09	Propionaldehyde	5	100	3.62891E-05	0.000194444			
09	Pyrene	5	100	1.1084E-06	3.2851E-06			
09	Styrene	5	100	0.000176	0.000978			
09	Tetrachloroethene	5	100	0.00171	0.0101	0.00041	24.63414634	100
09	Tin	5	40	2.5616E-06	2.7451E-06			
09	Toluene	5	100	0.00271	0.0267			
09	Total Carcinogenic PAHS (BaP TEQs)	5	40	3.045E-10	2.39447E-07	0.00000087	0.275226667	
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	4.4312E-11	3.67185E-10	6.4E-11	5.737265625	60
09	TOTAL HPCDD	5	100	3.474E-10	2.6683E-09			
09	TOTAL HPCDF	5	100	2.94E-10	1.5417E-09			
09	TOTAL HXCDD	5	100	6.414E-10	5.9294E-09			
09	TOTAL HXCDF	5	100	6.682E-10	2.5497E-09			
09	TOTAL PECDD	5	100	5.202E-10	5.3365E-09			
09	TOTAL PECDF	5	100	7.206E-10	2.9351E-09			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	cis-1,2-Dichloroethene	5	20	0.000194	0.000194			
09	Cobalt	5	80	2.328E-07	6.088E-07			
09	Crotonaldehyde	5	40	2.34577E-05	3.24653E-05			
09	Cyclohexane	5	60	0.000192	0.00059	6.3	9.36508E-05	
09	Dibenzofuran	5	20	2.749E-07	2.749E-07			
09	Dichlorodifluoromethane (Freon 12)	5	100	0.000487	0.00297	0.21	0.014142857	
09	Dieldrin	5	20	1.5597E-06	1.5597E-06			
09	Dimethylphthalate	5	60	6.551E-07	2.7589E-06			
09	Di-n-butylphthalate	5	100	4.96795E-05	0.000112433			
09	Di-n-octylphthalate	5	20	4.5673E-06	4.5673E-06			
09	Ethylbenzene	5	100	0.00103	0.00287	1	0.00287	
09	Fluoranthene	5	100	1.2607E-06	3.8697E-06			
09	Formaldehyde	5	100	0.001357192	0.004345918	0.01	0.43459175	
09	Gravimetrics-PM10	5	100	0.057670127	0.068767908			
09	Hexachlorobutadiene	8	37.5	0.000259	0.000943			
09	Hexaldehyde	5	20	0.000215208	0.000215208			
09	Hexane	5	100	0.00115	0.148	0.73	0.202739726	
09	Isobutyl Alcohol	5	100	0.00114	0.00376			
09	Isopropylbenzene	5	20	0.000262	0.000262	0.42	0.00062381	
09	Lead	5	100	4.3614E-06	3.39327E-05	0.0017	0.019960412	
09	m,p-Xylenes	5	100	0.00336	0.00991	0.1	0.0991	
09	Manganese (Diet)	5	100	5.6622E-06	2.00665E-05			
09	Mercury	5	100	1.6861E-06	2.6565E-06	0.00031	0.008569355	
09	Methacrylaldehyde	5	100	3.04688E-05	0.000295581			
09	Methyl Acetate	5	20	0.000863	0.000863			
09	Methyl tert-Butyl Ether	5	100	0.00196	0.00304	3.1	0.000980645	
09	Methylcyclohexane	5	40	0.000301	0.000478	3.1	0.000154194	
09	Methylene Chloride	5	100	0.000567	0.000824	1.1	0.000749091	
09	Naphthalene	5	20	1.9289E-06	1.9289E-06	0.0031	0.000622226	
09	N-valeraldehyde	5	100	6.80057E-05	0.000116959			
09	o-Xylene	5	100	0.00122	0.00286	0.73	0.003917808	
09	Phenanthrene	5	100	5.9295E-06	8.3749E-06			
09	Phenol	5	20	1.3929E-06	1.3929E-06	0.21	6.63286E-06	
09	Propionaldehyde	5	100	3.62891E-05	0.000194444			
09	Pyrene	5	100	1.1084E-06	3.2851E-06			
09	Styrene	5	100	0.000176	0.000978	1	0.000978	
09	Tetrachloroethene	5	100	0.00171	0.0101	0.28	0.036071429	
09	Tin	5	40	2.5616E-06	2.7451E-06			
09	Toluene	5	100	0.00271	0.0267	5.2	0.005134615	
09	Total Carcinogenic PAHS (BaP TEQs)	5	40	3.045E-10	2.39447E-07			
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	4.4312E-11	3.67185E-10			
09	TOTAL HPCDD	5	100	3.474E-10	2.6683E-09			
09	TOTAL HPCDF	5	100	2.94E-10	1.5417E-09			
09	TOTAL HXCDD	5	100	6.414E-10	5.9294E-09			
09	TOTAL HXCDF	5	100	6.682E-10	2.5497E-09			
09	TOTAL PECDD	5	100	5.202E-10	5.3365E-09			
09	TOTAL PECDF	5	100	7.206E-10	2.9351E-09			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	cis-1,2-Dichloroethene	5	20	0.000194	0.000194			
09	Cobalt	5	80	2.328E-07	6.088E-07			
09	Crotonaldehyde	5	40	2.34577E-05	3.24653E-05			
09	Cyclohexane	5	60	0.000192	0.00059	2.49075254	0.000236876	
09	Dibenzofuran	5	20	2.749E-07	2.749E-07			
09	Dichlorodifluoromethane (Freon 12)	5	100	0.000487	0.00297			
09	Dieldrin	5	20	1.5597E-06	1.5597E-06	0.00000165	0.945272727	
09	Dimethylphthalate	5	60	6.551E-07	2.7589E-06			
09	Di-n-butylphthalate	5	100	4.96795E-05	0.000112433			
09	Di-n-octylphthalate	5	20	4.5673E-06	4.5673E-06			
09	Ethylbenzene	5	100	0.00103	0.00287	0.628074798	0.004569519	
09	Fluoranthene	5	100	1.2607E-06	3.8697E-06			
09	Formaldehyde	5	100	0.001357192	0.004345918	0.0079	0.550116139	
09	Gravimetrics-PM10	5	100	0.057670127	0.068767908			
09	Hexachlorobutadiene	8	37.5	0.000259	0.000943	0.004095372	0.230259925	
09	Hexaldehyde	5	20	0.000215208	0.000215208			
09	Hexane	5	100	0.00115	0.148	3.079532452	0.048059244	
09	Isobutyl Alcohol	5	100	0.00114	0.00376			
09	Isopropylbenzene	5	20	0.000262	0.000262	5.630201006	4.65348E-05	
09	Lead	5	100	4.3614E-06	3.39327E-05	0.00004	0.8483175	
09	m,p-Xylenes	5	100	0.00336	0.00991			
09	Manganese (Diet)	5	100	5.6622E-06	2.00665E-05			
09	Mercury	5	100	1.6861E-06	2.6565E-06			
09	Methacrylaldehyde	5	100	3.04688E-05	0.000295581			
09	Methyl Acetate	5	20	0.000863	0.000863			
09	Methyl tert-Butyl Ether	5	100	0.00196	0.00304	0.31185638	0.009748077	
09	Methylcyclohexane	5	40	0.000301	0.000478	0.424477366	0.001126091	
09	Methylene Chloride	5	100	0.000567	0.000824	0.166739632	0.004941837	
09	Naphthalene	5	20	1.9289E-06	1.9289E-06	0.000199	0.009692965	
09	N-valeraldehyde	5	100	6.80057E-05	0.000116959			
09	o-Xylene	5	100	0.00122	0.00286	0.64474935	0.004435832	
09	Phenanthrene	5	100	5.9295E-06	8.3749E-06			
09	Phenol	5	20	1.3929E-06	1.3929E-06			
09	Propionaldehyde	5	100	3.62891E-05	0.000194444			
09	Pyrene	5	100	1.1084E-06	3.2851E-06			
09	Styrene	5	100	0.000176	0.000978	7.92238593	0.000123448	
09	Tetrachloroethene	5	100	0.00171	0.0101	0.013022233	0.77559662	
09	Tin	5	40	2.5616E-06	2.7451E-06			
09	Toluene	5	100	0.00271	0.0267	1.34799501	0.019807195	
09	Total Carcinogenic PAHS (BaP TEQs)	5	40	3.045E-10	2.39447E-07	0.000019	0.012602484	
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	4.4312E-11	3.67185E-10	2.1E-10	1.7485	20
09	TOTAL HPCDD	5	100	3.474E-10	2.6683E-09			
09	TOTAL HPCDF	5	100	2.94E-10	1.5417E-09			
09	TOTAL HXCDD	5	100	6.414E-10	5.9294E-09			
09	TOTAL HXCDF	5	100	6.682E-10	2.5497E-09			
09	TOTAL PECDD	5	100	5.202E-10	5.3365E-09			
09	TOTAL PECDF	5	100	7.206E-10	2.9351E-09			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	cis-1,2-Dichloroethene	5	20	0.000194	0.000194			
09	Cobalt	5	80	2.328E-07	6.088E-07			
09	Crotonaldehyde	5	40	2.34577E-05	3.24653E-05			
09	Cyclohexane	5	60	0.000192	0.00059			
09	Dibenzofuran	5	20	2.749E-07	2.749E-07			
09	Dichlorodifluoromethane (Freon 12)	5	100	0.000487	0.00297			
09	Dieldrin	5	20	1.5597E-06	1.5597E-06			
09	Dimethylphthalate	5	60	6.551E-07	2.7589E-06			
09	Di-n-butylphthalate	5	100	4.96795E-05	0.000112433			
09	Di-n-octylphthalate	5	20	4.5673E-06	4.5673E-06			
09	Ethylbenzene	5	100	0.00103	0.00287			
09	Fluoranthene	5	100	1.2607E-06	3.8697E-06			
09	Formaldehyde	5	100	0.001357192	0.004345918			
09	Gravimetrics-PM10	5	100	0.057670127	0.068767908	0.15	0.458452722	
09	Hexachlorobutadiene	8	37.5	0.000259	0.000943			
09	Hexaldehyde	5	20	0.000215208	0.000215208			
09	Hexane	5	100	0.00115	0.148			
09	Isobutyl Alcohol	5	100	0.00114	0.00376			
09	Isopropylbenzene	5	20	0.000262	0.000262			
09	Lead	5	100	4.3614E-06	3.39327E-05	0.0015	0.0226218	
09	m,p-Xylenes	5	100	0.00336	0.00991			
09	Manganese (Diet)	5	100	5.6622E-06	2.00665E-05			
09	Mercury	5	100	1.6861E-06	2.6565E-06			
09	Methacrylaldehyde	5	100	3.04688E-05	0.000295581			
09	Methyl Acetate	5	20	0.000863	0.000863			
09	Methyl tert-Butyl Ether	5	100	0.00196	0.00304			
09	Methylcyclohexane	5	40	0.000301	0.000478			
09	Methylene Chloride	5	100	0.000567	0.000824			
09	Naphthalene	5	20	1.9289E-06	1.9289E-06			
09	N-valeraldehyde	5	100	6.80057E-05	0.000116959			
09	o-Xylene	5	100	0.00122	0.00286			
09	Phenanthrene	5	100	5.9295E-06	8.3749E-06			
09	Phenol	5	20	1.3929E-06	1.3929E-06			
09	Propionaldehyde	5	100	3.62891E-05	0.000194444			
09	Pyrene	5	100	1.1084E-06	3.2851E-06			
09	Styrene	5	100	0.000176	0.000978			
09	Tetrachloroethene	5	100	0.00171	0.0101			
09	Tin	5	40	2.5616E-06	2.7451E-06			
09	Toluene	5	100	0.00271	0.0267			
09	Total Carcinogenic PAHS (BaP TEQs)	5	40	3.045E-10	2.39447E-07			
09	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	5	100	4.4312E-11	3.67185E-10			
09	TOTAL HPCDD	5	100	3.474E-10	2.6683E-09			
09	TOTAL HPCDF	5	100	2.94E-10	1.5417E-09			
09	TOTAL HXCDD	5	100	6.414E-10	5.9294E-09			
09	TOTAL HXCDF	5	100	6.682E-10	2.5497E-09			
09	TOTAL PECDD	5	100	5.202E-10	5.3365E-09			
09	TOTAL PECDF	5	100	7.206E-10	2.9351E-09			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Cancer RSLs		
						Ambient Air Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	TOTAL TCDD	5	100	3.559E-10	3.5577E-09			
09	TOTAL TCDF	5	100	6.672E-10	3.2612E-09			
09	Total Trihalomethanes	5	60	0.000182	0.000321			
09	Trichloroethene	5	20	0.000996	0.000996	0.0012	0.83	
09	Trichlorofluoromethane	5	100	0.00173	0.00236			
09	Vinyl Acetate	5	100	0.00178	0.00453			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Ambient Air Non-cancer RSLs		
						Ambient Air Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	TOTAL TCDD	5	100	3.559E-10	3.5577E-09			
09	TOTAL TCDF	5	100	6.672E-10	3.2612E-09			
09	Total Trihalomethanes	5	60	0.000182	0.000321			
09	Trichloroethene	5	20	0.000996	0.000996			
09	Trichlorofluoromethane	5	100	0.00173	0.00236	0.73	0.003232877	
09	Vinyl Acetate	5	100	0.00178	0.00453	0.21	0.021571429	

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Maximum US Ambient Air Concentration		
						Maximum US Ambient Air Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	TOTAL TCDD	5	100	3.559E-10	3.5577E-09			
09	TOTAL TCDF	5	100	6.672E-10	3.2612E-09			
09	Total Trihalomethanes	5	60	0.000182	0.000321			
09	Trichloroethene	5	20	0.000996	0.000996	0.005158871	0.193065492	
09	Trichlorofluoromethane	5	100	0.00173	0.00236			
09	Vinyl Acetate	5	100	0.00178	0.00453			

Table B-5
Statistical Summary of Analytical Results, Standards, and Risk Results for Ambient Air Collected at the Naples PHE
Media: Ambient Air Monitoring Stations (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US NAAQ		
						US NAAQ	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
09	TOTAL TCDD	5	100	3.559E-10	3.5577E-09			
09	TOTAL TCDF	5	100	6.672E-10	3.2612E-09			
09	Total Trihalomethanes	5	60	0.000182	0.000321			
09	Trichloroethene	5	20	0.000996	0.000996			
09	Trichlorofluoromethane	5	100	0.00173	0.00236			
09	Vinyl Acetate	5	100	0.00178	0.00453			

Appendix C

STATISTICAL SUMMARY OF ANALYTICAL RESULTS, STANDARDS, AND RISK RESULTS FOR GOVERNMENT-LEASED PARCOS AND NAVFAC- LEASED HOMES:

**Parco Artemide, Parco Eva, Parco Le Ginestre,
NAVFAC-Leased Homes**



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MARCH 2009

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TABLE C-3 – TAP WATER INFORMATION
TABLE C-4 – IRRIGATION WELL WATER INFORMATION

RISK-BASED SCREENING LEVELS

1.1 Overview

This appendix presents the analytical data statistical summaries, regional screening levels and other risk-based criteria, and the exceedance factor calculations for the Government-Leased Parcels and Flag Quarters. The data are presented by media as follows:

- Table C-1 – Soil Information
- Table C-2 – Soil Gas Information
- Table C-3 – Tap Water Information
- Table C-4 – Irrigation Well Information

TABLES

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
NAVFAC Leased Homes	Cyanide	6	33.33	0.283	0.433			
NAVFAC Leased Homes	TOTAL HPCDD	6	100	0.0000051	0.000031			
NAVFAC Leased Homes	TOTAL HPCDF	6	100	0.0000018	0.0000091			
NAVFAC Leased Homes	TOTAL HXCDD	6	100	0.0000024	0.000013			
NAVFAC Leased Homes	TOTAL HXCDF	6	100	0.0000013	0.000013			
NAVFAC Leased Homes	TOTAL PECDD	6	100	0.0000072	0.000012			
NAVFAC Leased Homes	TOTAL PECDF	6	100	0.0000008	0.000016			
NAVFAC Leased Homes	TOTAL TCDD	6	100	0.0000012	0.0000077			
NAVFAC Leased Homes	TOTAL TCDF	6	100	0.0000053	0.000014			
NAVFAC Leased Homes	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	100	9.86E-08	1.25231E-06	0.0000045	0.278291111	
NAVFAC Leased Homes	Aluminum	6	100	27400	36200			
NAVFAC Leased Homes	Antimony	6	100	0.342	1.35			
NAVFAC Leased Homes	Arsenic	6	100	6.48	12.3	0.39	31.53846154	100
NAVFAC Leased Homes	Barium	6	100	196	322			
NAVFAC Leased Homes	Beryllium	6	100	2.42	3.79	1400	0.002707143	
NAVFAC Leased Homes	Cadmium (Food)	6	100	0.224	0.284	1800	0.000157778	
NAVFAC Leased Homes	Chromium	6	100	4.32	51.4			
NAVFAC Leased Homes	Cobalt	6	100	2.85	3.66			
NAVFAC Leased Homes	Copper	6	100	21.8	90.6			
NAVFAC Leased Homes	Iron	6	100	13900	18300			
NAVFAC Leased Homes	Lead	6	100	24	43.8			
NAVFAC Leased Homes	Manganese (food)	6	100	460	537			
NAVFAC Leased Homes	Nickel	6	100	2.72	5.64			
NAVFAC Leased Homes	Selenium	6	66.67	0.0937	0.2			
NAVFAC Leased Homes	Silver	6	16.67	0.118	0.118			
NAVFAC Leased Homes	Tin	6	100	1.73	2.2			
NAVFAC Leased Homes	Vanadium	6	100	24.9	37.4			
NAVFAC Leased Homes	Zinc	6	100	71.1	160			
NAVFAC Leased Homes	Acenaphthylene	6	16.67	0.0109	0.0109			
NAVFAC Leased Homes	Anthracene	6	16.67	0.0636	0.0636			
NAVFAC Leased Homes	Benzo(g,h,i)perylene	6	16.67	0.475	0.475			
NAVFAC Leased Homes	Bis(2-ethylhexyl)phthalate	6	66.67	0.127	0.266	35	0.0076	
NAVFAC Leased Homes	Butylbenzylphthalate	6	16.67	0.0415	0.0415			
NAVFAC Leased Homes	Carbazole	6	16.67	0.0219	0.0219	24	0.0009125	
NAVFAC Leased Homes	Fluoranthene	6	16.67	1.12	1.12			
NAVFAC Leased Homes	Fluorene	6	16.67	0.0146	0.0146			
NAVFAC Leased Homes	Naphthalene	6	16.67	0.00801	0.00801	3.9	0.002053846	
NAVFAC Leased Homes	Phenanthrene	6	16.67	0.325	0.325			
NAVFAC Leased Homes	Pyrene	6	16.67	1.01	1.01			
NAVFAC Leased Homes	Total Carcinogenic PAHs (BaP TEQs)	6	16.67	0.98455	0.98455	0.015	65.63666667	16.66666667
NAVFAC Leased Homes	2-Butanone (methyl ethyl ketone)	6	83.33	0.00353	0.00869			
NAVFAC Leased Homes	2-Hexanone	6	16.67	0.00171	0.00171			
NAVFAC Leased Homes	4-Isopropyltoluene	6	16.67	0.000276	0.000276			
NAVFAC Leased Homes	4-Methyl-2-Pentanone	6	16.67	0.00093	0.00093			
NAVFAC Leased Homes	Acetone	6	83.33	0.0519	0.0941			
NAVFAC Leased Homes	Benzene	6	100	0.00463	0.0286	1.1	0.026	
NAVFAC Leased Homes	Toluene	6	100	0.00294	0.00587			
NAVFAC Leased Homes	m,p-Xylenes	6	16.67	0.00075	0.00075			
NAVFAC Leased Homes	o-Xylene	6	50	0.000223	0.00041			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standards (%)
NAVFAC Leased Homes	Cyanide	6	33.33	0.283	0.433	1600	0.000270625	
NAVFAC Leased Homes	TOTAL HPCDD	6	100	0.0000051	0.000031			
NAVFAC Leased Homes	TOTAL HPCDF	6	100	0.0000018	0.0000091			
NAVFAC Leased Homes	TOTAL HXCDD	6	100	0.0000024	0.000013			
NAVFAC Leased Homes	TOTAL HXCDF	6	100	0.0000013	0.000013			
NAVFAC Leased Homes	TOTAL PECDD	6	100	0.0000072	0.000012			
NAVFAC Leased Homes	TOTAL PECDF	6	100	0.0000008	0.000016			
NAVFAC Leased Homes	TOTAL TCDD	6	100	0.0000012	0.0000077			
NAVFAC Leased Homes	TOTAL TCDF	6	100	0.0000053	0.000014			
NAVFAC Leased Homes	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	100	9.86E-08	1.25231E-06	0.000072	0.017393194	
NAVFAC Leased Homes	Aluminum	6	100	27400	36200	77000	0.47012987	
NAVFAC Leased Homes	Antimony	6	100	0.342	1.35	31	0.043548387	
NAVFAC Leased Homes	Arsenic	6	100	6.48	12.3	22	0.559090909	
NAVFAC Leased Homes	Barium	6	100	196	322	15000	0.021466667	
NAVFAC Leased Homes	Beryllium	6	100	2.42	3.79	160	0.0236875	
NAVFAC Leased Homes	Cadmium (Food)	6	100	0.224	0.284	70	0.004057143	
NAVFAC Leased Homes	Chromium	6	100	4.32	51.4			
NAVFAC Leased Homes	Cobalt	6	100	2.85	3.66			
NAVFAC Leased Homes	Copper	6	100	21.8	90.6	3100	0.029225806	
NAVFAC Leased Homes	Iron	6	100	13900	18300	55000	0.332727273	
NAVFAC Leased Homes	Lead	6	100	24	43.8	400	0.1095	
NAVFAC Leased Homes	Manganese (food)	6	100	460	537			
NAVFAC Leased Homes	Nickel	6	100	2.72	5.64	1600	0.003525	
NAVFAC Leased Homes	Selenium	6	66.67	0.0937	0.2	390	0.000512821	
NAVFAC Leased Homes	Silver	6	16.67	0.118	0.118	390	0.000302564	
NAVFAC Leased Homes	Tin	6	100	1.73	2.2	47000	4.68085E-05	
NAVFAC Leased Homes	Vanadium	6	100	24.9	37.4	550	0.068	
NAVFAC Leased Homes	Zinc	6	100	71.1	160	23000	0.006956522	
NAVFAC Leased Homes	Acenaphthylene	6	16.67	0.0109	0.0109			
NAVFAC Leased Homes	Anthracene	6	16.67	0.0636	0.0636	17000	3.74118E-06	
NAVFAC Leased Homes	Benzo(g,h,i)perylene	6	16.67	0.475	0.475			
NAVFAC Leased Homes	Bis(2-ethylhexyl)phthalate	6	66.67	0.127	0.266	1200	0.000221667	
NAVFAC Leased Homes	Butylbenzylphthalate	6	16.67	0.0415	0.0415	12000	3.45833E-06	
NAVFAC Leased Homes	Carbazole	6	16.67	0.0219	0.0219			
NAVFAC Leased Homes	Fluoranthene	6	16.67	1.12	1.12	2300	0.000486957	
NAVFAC Leased Homes	Fluorene	6	16.67	0.0146	0.0146	2300	6.34783E-06	
NAVFAC Leased Homes	Naphthalene	6	16.67	0.00801	0.00801	150	0.0000534	
NAVFAC Leased Homes	Phenanthrene	6	16.67	0.325	0.325			
NAVFAC Leased Homes	Pyrene	6	16.67	1.01	1.01	1700	0.000594118	
NAVFAC Leased Homes	Total Carcinogenic PAHS (BaP TEQs)	6	16.67	0.98455	0.98455			
NAVFAC Leased Homes	2-Butanone (methyl ethyl ketone)	6	83.33	0.00353	0.00869	28000	3.10357E-07	
NAVFAC Leased Homes	2-Hexanone	6	16.67	0.00171	0.00171			
NAVFAC Leased Homes	4-Isopropyltoluene	6	16.67	0.000276	0.000276			
NAVFAC Leased Homes	4-Methyl-2-Pentanone	6	16.67	0.00093	0.00093	5300	1.75472E-07	
NAVFAC Leased Homes	Acetone	6	83.33	0.0519	0.0941	61000	1.54262E-06	
NAVFAC Leased Homes	Benzene	6	100	0.00463	0.0286	90	0.000317778	
NAVFAC Leased Homes	Toluene	6	100	0.00294	0.00587	5000	0.000001174	
NAVFAC Leased Homes	m,p-Xylenes	6	16.67	0.00075	0.00075	600	0.00000125	
NAVFAC Leased Homes	o-Xylene	6	50	0.000223	0.00041	5300	7.73585E-08	

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcels and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
NAVFAC Leased Homes	Cyanide	6	33.33	0.283	0.433			
NAVFAC Leased Homes	TOTAL HPCDD	6	100	0.0000051	0.000031			
NAVFAC Leased Homes	TOTAL HPCDF	6	100	0.0000018	0.0000091			
NAVFAC Leased Homes	TOTAL HXCDD	6	100	0.0000024	0.000013			
NAVFAC Leased Homes	TOTAL HXCDF	6	100	0.0000013	0.000013			
NAVFAC Leased Homes	TOTAL PECDD	6	100	0.0000072	0.000012			
NAVFAC Leased Homes	TOTAL PECDF	6	100	0.0000008	0.000016			
NAVFAC Leased Homes	TOTAL TCDD	6	100	0.0000012	0.0000077			
NAVFAC Leased Homes	TOTAL TCDF	6	100	0.00000053	0.000014			
NAVFAC Leased Homes	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	100	9.86E-08	1.25231E-06			
NAVFAC Leased Homes	Aluminum	6	100	27400	36200	86900	0.416570771	
NAVFAC Leased Homes	Antimony	6	100	0.342	1.35	42.8	0.031542056	
NAVFAC Leased Homes	Arsenic	6	100	6.48	12.3	164	0.075	
NAVFAC Leased Homes	Barium	6	100	196	322	1813	0.177606178	
NAVFAC Leased Homes	Beryllium	6	100	2.42	3.79			
NAVFAC Leased Homes	Cadmium (Food)	6	100	0.224	0.284	10.6	0.026792453	
NAVFAC Leased Homes	Chromium	6	100	4.32	51.4	579	0.088773748	
NAVFAC Leased Homes	Cobalt	6	100	2.85	3.66	36.6	0.1	
NAVFAC Leased Homes	Copper	6	100	21.8	90.6	3965	0.022849937	
NAVFAC Leased Homes	Iron	6	100	13900	18300	154600	0.118369987	
NAVFAC Leased Homes	Lead	6	100	24	43.8	2052	0.021345029	
NAVFAC Leased Homes	Manganese (food)	6	100	460	537	5923	0.090663515	
NAVFAC Leased Homes	Nickel	6	100	2.72	5.64	689	0.008185776	
NAVFAC Leased Homes	Selenium	6	66.67	0.0937	0.2	1.9	0.105263158	
NAVFAC Leased Homes	Silver	6	16.67	0.118	0.118	8.132	0.014510576	
NAVFAC Leased Homes	Tin	6	100	1.73	2.2			
NAVFAC Leased Homes	Vanadium	6	100	24.9	37.4	187	0.2	
NAVFAC Leased Homes	Zinc	6	100	71.1	160	3211	0.049828714	
NAVFAC Leased Homes	Acenaphthylene	6	16.67	0.0109	0.0109			
NAVFAC Leased Homes	Anthracene	6	16.67	0.0636	0.0636			
NAVFAC Leased Homes	Benzo(g,h,i)perylene	6	16.67	0.475	0.475			
NAVFAC Leased Homes	Bis(2-ethylhexyl)phthalate	6	66.67	0.127	0.266			
NAVFAC Leased Homes	Butylbenzylphthalate	6	16.67	0.0415	0.0415			
NAVFAC Leased Homes	Carbazole	6	16.67	0.0219	0.0219			
NAVFAC Leased Homes	Fluoranthene	6	16.67	1.12	1.12			
NAVFAC Leased Homes	Fluorene	6	16.67	0.0146	0.0146			
NAVFAC Leased Homes	Naphthalene	6	16.67	0.00801	0.00801			
NAVFAC Leased Homes	Phenanthrene	6	16.67	0.325	0.325			
NAVFAC Leased Homes	Pyrene	6	16.67	1.01	1.01			
NAVFAC Leased Homes	Total Carcinogenic PAHS (BaP TEQs)	6	16.67	0.98455	0.98455			
NAVFAC Leased Homes	2-Butanone (methyl ethyl ketone)	6	83.33	0.00353	0.00869			
NAVFAC Leased Homes	2-Hexanone	6	16.67	0.00171	0.00171			
NAVFAC Leased Homes	4-Isopropyltoluene	6	16.67	0.000276	0.000276			
NAVFAC Leased Homes	4-Methyl-2-Pentanone	6	16.67	0.00093	0.00093			
NAVFAC Leased Homes	Acetone	6	83.33	0.0519	0.0941			
NAVFAC Leased Homes	Benzene	6	100	0.00463	0.0286			
NAVFAC Leased Homes	Toluene	6	100	0.00294	0.00587			
NAVFAC Leased Homes	m,p-Xylenes	6	16.67	0.00075	0.00075			
NAVFAC Leased Homes	o-Xylene	6	50	0.000223	0.00041			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	TOTAL HPCDD	10	100	0.000053	0.000023			
Parco Artemide	TOTAL HPCDF	10	100	0.000033	0.000026			
Parco Artemide	TOTAL HXCDD	10	100	0.000026	0.000073			
Parco Artemide	TOTAL HXCDF	10	100	0.000035	0.000014			
Parco Artemide	TOTAL PECDD	10	100	0.0000053	0.0000054			
Parco Artemide	TOTAL PECDF	10	100	0.000035	0.000016			
Parco Artemide	TOTAL TCDD	10	100	0.000001	0.000006			
Parco Artemide	TOTAL TCDF	10	100	0.0000025	0.000012			
Parco Artemide	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	1.2054E-07	1.15502E-06	0.0000045	0.256671111	
Parco Artemide	Total Solids	10	100	80.4	91			
Parco Artemide	Aluminum	10	100	24000	43500			
Parco Artemide	Antimony	10	100	0.0988	0.692			
Parco Artemide	Arsenic	10	100	10.7	14.3	0.39	36.6666667	100
Parco Artemide	Barium	10	100	171	309			
Parco Artemide	Beryllium	10	100	3.57	5.61	1400	0.004007143	
Parco Artemide	Cadmium (Food)	10	100	0.173	0.268	1800	0.000148889	
Parco Artemide	Chromium	10	100	3.33	9.71			
Parco Artemide	Cobalt	10	100	3.13	5.25			
Parco Artemide	Copper	10	100	14.4	49.2			
Parco Artemide	Iron	10	100	12900	21400			
Parco Artemide	Lead	10	100	22.3	49			
Parco Artemide	Manganese (food)	10	100	455	714			
Parco Artemide	Mercury	10	10	0.226	0.226			
Parco Artemide	Nickel	10	100	2.77	5.89			
Parco Artemide	Silver	10	60	0.118	3.2			
Parco Artemide	Thallium	10	90	1.12	1.66			
Parco Artemide	Tin	10	100	1.96	4.16			
Parco Artemide	Vanadium	10	100	29.7	56.2			
Parco Artemide	Zinc	10	100	47.8	85.1			
Parco Artemide	Fluoranthene	10	10	0.0507	0.0507			
Parco Artemide	Pyrene	10	10	0.0447	0.0447			
Parco Artemide	Total Carcinogenic PAHS (BaP TEQs)	10	10	0.029501	0.029501	0.015	1.966733333	10
Parco Artemide	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	10	0.0036	0.0036			
Parco Artemide	Acetone	10	10	0.0307	0.0307			
Parco Artemide	Toluene	10	30	0.000839	0.00296			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	TOTAL HPCDD	10	100	0.0000053	0.000023			
Parco Artemide	TOTAL HPCDF	10	100	0.0000033	0.000026			
Parco Artemide	TOTAL HXCDD	10	100	0.0000026	0.0000073			
Parco Artemide	TOTAL HXCDF	10	100	0.0000035	0.000014			
Parco Artemide	TOTAL PECDD	10	100	0.0000053	0.0000054			
Parco Artemide	TOTAL PECDF	10	100	0.0000035	0.000016			
Parco Artemide	TOTAL TCDD	10	100	0.000001	0.000006			
Parco Artemide	TOTAL TCDF	10	100	0.0000025	0.000012			
Parco Artemide	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	1.2054E-07	1.15502E-06	0.000072	0.016041944	
Parco Artemide	Total Solids	10	100	80.4	91			
Parco Artemide	Aluminum	10	100	24000	43500	77000	0.564935065	
Parco Artemide	Antimony	10	100	0.0988	0.692	31	0.022322581	
Parco Artemide	Arsenic	10	100	10.7	14.3	22	0.65	
Parco Artemide	Barium	10	100	171	309	15000	0.0206	
Parco Artemide	Beryllium	10	100	3.57	5.61	160	0.0350625	
Parco Artemide	Cadmium (Food)	10	100	0.173	0.268	70	0.003828571	
Parco Artemide	Chromium	10	100	3.33	9.71			
Parco Artemide	Cobalt	10	100	3.13	5.25			
Parco Artemide	Copper	10	100	14.4	49.2	3100	0.015870968	
Parco Artemide	Iron	10	100	12900	21400	55000	0.389090909	
Parco Artemide	Lead	10	100	22.3	49	400	0.1225	
Parco Artemide	Manganese (food)	10	100	455	714			
Parco Artemide	Mercury	10	10	0.226	0.226	6.7	0.033731343	
Parco Artemide	Nickel	10	100	2.77	5.89	1600	0.00368125	
Parco Artemide	Silver	10	60	0.118	3.2	390	0.008205128	
Parco Artemide	Thallium	10	90	1.12	1.66	5.1	0.325490196	
Parco Artemide	Tin	10	100	1.96	4.16	47000	8.85106E-05	
Parco Artemide	Vanadium	10	100	29.7	56.2	550	0.102181818	
Parco Artemide	Zinc	10	100	47.8	85.1	23000	0.0037	
Parco Artemide	Fluoranthene	10	10	0.0507	0.0507	2300	2.20435E-05	
Parco Artemide	Pyrene	10	10	0.0447	0.0447	1700	2.62941E-05	
Parco Artemide	Total Carcinogenic PAHS (BaP TEQs)	10	10	0.029501	0.029501			
Parco Artemide	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	10	0.0036	0.0036	43000	8.37209E-08	
Parco Artemide	Acetone	10	10	0.0307	0.0307	61000	5.03279E-07	
Parco Artemide	Toluene	10	30	0.000839	0.00296	5000	0.00000592	

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	TOTAL HPCDD	10	100	0.0000053	0.000023			
Parco Artemide	TOTAL HPCDF	10	100	0.0000033	0.000026			
Parco Artemide	TOTAL HXCDD	10	100	0.0000026	0.0000073			
Parco Artemide	TOTAL HXCDF	10	100	0.0000035	0.000014			
Parco Artemide	TOTAL PECDD	10	100	0.0000053	0.0000054			
Parco Artemide	TOTAL PECDF	10	100	0.0000035	0.000016			
Parco Artemide	TOTAL TCDD	10	100	0.000001	0.000006			
Parco Artemide	TOTAL TCDF	10	100	0.0000025	0.000012			
Parco Artemide	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	1.2054E-07	1.15502E-06			
Parco Artemide	Total Solids	10	100	80.4	91			
Parco Artemide	Aluminum	10	100	24000	43500	86900	0.500575374	
Parco Artemide	Antimony	10	100	0.0988	0.692	42.8	0.016168224	
Parco Artemide	Arsenic	10	100	10.7	14.3	164	0.087195122	
Parco Artemide	Barium	10	100	171	309	1813	0.170435742	
Parco Artemide	Beryllium	10	100	3.57	5.61			
Parco Artemide	Cadmium (Food)	10	100	0.173	0.268	10.6	0.025283019	
Parco Artemide	Chromium	10	100	3.33	9.71	579	0.016770294	
Parco Artemide	Cobalt	10	100	3.13	5.25	36.6	0.143442623	
Parco Artemide	Copper	10	100	14.4	49.2	3965	0.012408575	
Parco Artemide	Iron	10	100	12900	21400	154600	0.138421734	
Parco Artemide	Lead	10	100	22.3	49	2052	0.023879142	
Parco Artemide	Manganese (food)	10	100	455	714	5923	0.12054702	
Parco Artemide	Mercury	10	10	0.226	0.226	2.66	0.084962406	
Parco Artemide	Nickel	10	100	2.77	5.89	689	0.008548621	
Parco Artemide	Silver	10	60	0.118	3.2	8.132	0.393507132	
Parco Artemide	Thallium	10	90	1.12	1.66	69	0.024057971	
Parco Artemide	Tin	10	100	1.96	4.16			
Parco Artemide	Vanadium	10	100	29.7	56.2	187	0.300534759	
Parco Artemide	Zinc	10	100	47.8	85.1	3211	0.026502647	
Parco Artemide	Fluoranthene	10	10	0.0507	0.0507			
Parco Artemide	Pyrene	10	10	0.0447	0.0447			
Parco Artemide	Total Carcinogenic PAHS (BaP TEQs)	10	10	0.029501	0.029501			
Parco Artemide	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	10	0.0036	0.0036			
Parco Artemide	Acetone	10	10	0.0307	0.0307			
Parco Artemide	Toluene	10	30	0.000839	0.00296			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	TOTAL HPCDD	12	100	0.000016	0.000029			
Parco Eva	TOTAL HPCDF	12	91.67	0.000017	0.000011			
Parco Eva	TOTAL HXCDD	12	100	0.0000068	0.0000054			
Parco Eva	TOTAL HXCDF	12	100	0.000017	0.0000055			
Parco Eva	TOTAL PECDD	12	100	0.0000031	0.0000033			
Parco Eva	TOTAL PECDF	12	100	0.0000081	0.000015			
Parco Eva	TOTAL TCDD	12	100	0.0000008	0.000005			
Parco Eva	TOTAL TCDF	12	100	0.0000011	0.000012			
Parco Eva	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	12	100	4.387E-08	5.2075E-07	0.0000045	0.115722222	
Parco Eva	Total Solids	12	100	73.4	88.3			
Parco Eva	Aluminum	12	100	34200	48300			
Parco Eva	Antimony	12	100	0.195	0.59			
Parco Eva	Arsenic	12	100	11.7	16.6	0.39	42.56410256	100
Parco Eva	Barium	12	100	263	426			
Parco Eva	Beryllium	12	100	4.19	6	1400	0.004285714	
Parco Eva	Cadmium (Food)	12	100	0.139	0.335	1800	0.000186111	
Parco Eva	Chromium	12	100	3.4	5.8			
Parco Eva	Cobalt	12	100	4.81	6.22			
Parco Eva	Copper	12	100	14.9	36.6			
Parco Eva	Iron	12	100	18000	22800			
Parco Eva	Lead	12	100	26.1	44.3			
Parco Eva	Manganese (food)	12	100	462	680			
Parco Eva	Nickel	12	100	4.28	7.55			
Parco Eva	Selenium	12	91.67	0.092	0.537			
Parco Eva	Silver	12	58.33	0.1	0.197			
Parco Eva	Thallium	12	58.33	1.34	3.75			
Parco Eva	Tin	12	100	2.17	2.84			
Parco Eva	Vanadium	12	100	37.9	49.5			
Parco Eva	Zinc	12	100	47	88			
Parco Eva	Naphthalene	12	8.33	0.00733	0.00733	3.9	0.001879487	
Parco Eva	1,1,1,2-Tetrachloroethane	12	8.33	0.00363	0.00363	2	0.001815	
Parco Eva	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12	16.67	0.00337	0.008			
Parco Eva	1,2,4-Trimethylbenzene	12	25	0.00111	0.0025			
Parco Eva	1,2-Dichloroethane	12	16.67	0.0018	0.00299	0.45	0.006644444	
Parco Eva	1,3,5-Trimethylbenzene	12	25	0.00152	0.00248			
Parco Eva	1,3-Dichlorobenzene	12	16.67	0.00138	0.0017			
Parco Eva	1,3-Dichloropropane	12	16.67	0.0019	0.00239			
Parco Eva	1,4-Dichlorobenzene	12	8.33	0.00187	0.00187	2.6	0.000719231	
Parco Eva	2-Butanone (methyl ethyl ketone)	12	16.67	0.00359	0.00398			
Parco Eva	4-Isopropyltoluene	12	41.67	0.000781	0.00237			
Parco Eva	Acetone	12	83.33	0.00835	0.104			
Parco Eva	Benzene	12	8.33	0.000932	0.000932	1.1	0.000847273	
Parco Eva	Bromodichloromethane	12	8.33	0.0031	0.0031	10	0.00031	
Parco Eva	Chlorobenzene	12	25	0.000652	0.00346			
Parco Eva	Chloroform	12	8.33	0.00121	0.00121	0.3	0.004033333	
Parco Eva	Dibromochloromethane	12	8.33	0.00278	0.00278	5.8	0.00047931	
Parco Eva	Ethylbenzene	12	41.67	0.000907	0.00547	5.7	0.000959649	
Parco Eva	Isopropylbenzene	12	41.67	0.000933	0.00348			
Parco Eva	Styrene	12	41.67	0.00059	0.00406			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	TOTAL HPCDD	12	100	0.0000016	0.000029			
Parco Eva	TOTAL HPCDF	12	91.67	0.0000017	0.000011			
Parco Eva	TOTAL HXCDD	12	100	0.0000068	0.000054			
Parco Eva	TOTAL HXCDF	12	100	0.0000017	0.000055			
Parco Eva	TOTAL PECDD	12	100	0.0000031	0.0000033			
Parco Eva	TOTAL PECDF	12	100	0.0000081	0.000015			
Parco Eva	TOTAL TCDD	12	100	0.0000008	0.000005			
Parco Eva	TOTAL TCDF	12	100	0.0000011	0.000012			
Parco Eva	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	12	100	4.387E-08	5.2075E-07	0.000072	0.007232639	
Parco Eva	Total Solids	12	100	73.4	88.3			
Parco Eva	Aluminum	12	100	34200	48300	77000	0.627272727	
Parco Eva	Antimony	12	100	0.195	0.59	31	0.019032258	
Parco Eva	Arsenic	12	100	11.7	16.6	22	0.754545455	
Parco Eva	Barium	12	100	263	426	15000	0.0284	
Parco Eva	Beryllium	12	100	4.19	6	160	0.0375	
Parco Eva	Cadmium (Food)	12	100	0.139	0.335	70	0.004785714	
Parco Eva	Chromium	12	100	3.4	5.8			
Parco Eva	Cobalt	12	100	4.81	6.22			
Parco Eva	Copper	12	100	14.9	36.6	3100	0.011806452	
Parco Eva	Iron	12	100	18000	22800	55000	0.414545455	
Parco Eva	Lead	12	100	26.1	44.3	400	0.11075	
Parco Eva	Manganese (food)	12	100	462	680			
Parco Eva	Nickel	12	100	4.28	7.55	1600	0.00471875	
Parco Eva	Selenium	12	91.67	0.092	0.537	390	0.001376923	
Parco Eva	Silver	12	58.33	0.1	0.197	390	0.000505128	
Parco Eva	Thallium	12	58.33	1.34	3.75	5.1	0.735294118	
Parco Eva	Tin	12	100	2.17	2.84	47000	6.04255E-05	
Parco Eva	Vanadium	12	100	37.9	49.5	550	0.09	
Parco Eva	Zinc	12	100	47	88	23000	0.003826087	
Parco Eva	Naphthalene	12	8.33	0.00733	0.00733	150	4.88667E-05	
Parco Eva	1,1,1,2-Tetrachloroethane	12	8.33	0.00363	0.00363	2300	1.57826E-06	
Parco Eva	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12	16.67	0.00337	0.008	43000	1.86047E-07	
Parco Eva	1,2,4-Trimethylbenzene	12	25	0.00111	0.0025	67	3.73134E-05	
Parco Eva	1,2-Dichloroethane	12	16.67	0.0018	0.00299	13000	0.00000023	
Parco Eva	1,3,5-Trimethylbenzene	12	25	0.00152	0.00248			
Parco Eva	1,3-Dichlorobenzene	12	16.67	0.00138	0.0017			
Parco Eva	1,3-Dichloropropane	12	16.67	0.0019	0.00239	1600	1.49375E-06	
Parco Eva	1,4-Dichlorobenzene	12	8.33	0.00187	0.00187	10000	0.000000187	
Parco Eva	2-Butanone (methyl ethyl ketone)	12	16.67	0.00359	0.00398	28000	1.42143E-07	
Parco Eva	4-Isopropyltoluene	12	41.67	0.000781	0.00237			
Parco Eva	Acetone	12	83.33	0.00835	0.104	61000	1.70492E-06	
Parco Eva	Benzene	12	8.33	0.000932	0.000932	90	1.03556E-05	
Parco Eva	Bromodichloromethane	12	8.33	0.0031	0.0031	1600	1.9375E-06	
Parco Eva	Chlorobenzene	12	25	0.000652	0.00346	310	1.11613E-05	
Parco Eva	Chloroform	12	8.33	0.00121	0.00121	220	0.0000055	
Parco Eva	Dibromochloromethane	12	8.33	0.00278	0.00278	1200	2.31667E-06	
Parco Eva	Ethylbenzene	12	41.67	0.000907	0.00547	3600	1.51944E-06	
Parco Eva	Isopropylbenzene	12	41.67	0.000933	0.00348	2200	1.58182E-06	
Parco Eva	Styrene	12	41.67	0.00059	0.00406	6500	6.24615E-07	

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	TOTAL HPCDD	12	100	0.0000016	0.000029			
Parco Eva	TOTAL HPCDF	12	91.67	0.0000017	0.000011			
Parco Eva	TOTAL HXCDD	12	100	0.0000068	0.000054			
Parco Eva	TOTAL HXCDF	12	100	0.0000017	0.000055			
Parco Eva	TOTAL PECDD	12	100	0.0000031	0.000033			
Parco Eva	TOTAL PECDF	12	100	0.0000081	0.000015			
Parco Eva	TOTAL TCDD	12	100	0.0000008	0.000005			
Parco Eva	TOTAL TCDF	12	100	0.0000011	0.000012			
Parco Eva	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	12	100	4.387E-08	5.2075E-07			
Parco Eva	Total Solids	12	100	73.4	88.3			
Parco Eva	Aluminum	12	100	34200	48300	86900	0.555811277	
Parco Eva	Antimony	12	100	0.195	0.59	42.8	0.013785047	
Parco Eva	Arsenic	12	100	11.7	16.6	164	0.101219512	
Parco Eva	Barium	12	100	263	426	1813	0.234969664	
Parco Eva	Beryllium	12	100	4.19	6			
Parco Eva	Cadmium (Food)	12	100	0.139	0.335	10.6	0.031603774	
Parco Eva	Chromium	12	100	3.4	5.8	579	0.010017271	
Parco Eva	Cobalt	12	100	4.81	6.22	36.6	0.169945355	
Parco Eva	Copper	12	100	14.9	36.6	3965	0.009230769	
Parco Eva	Iron	12	100	18000	22800	154600	0.147477361	
Parco Eva	Lead	12	100	26.1	44.3	2052	0.021588694	
Parco Eva	Manganese (food)	12	100	462	680	5923	0.114806686	
Parco Eva	Nickel	12	100	4.28	7.55	689	0.01095791	
Parco Eva	Selenium	12	91.67	0.092	0.537	1.9	0.282631579	
Parco Eva	Silver	12	58.33	0.1	0.197	8.132	0.024225283	
Parco Eva	Thallium	12	58.33	1.34	3.75	69	0.054347826	
Parco Eva	Tin	12	100	2.17	2.84			
Parco Eva	Vanadium	12	100	37.9	49.5	187	0.264705882	
Parco Eva	Zinc	12	100	47	88	3211	0.027405793	
Parco Eva	Naphthalene	12	8.33	0.00733	0.00733			
Parco Eva	1,1,1,2-Tetrachloroethane	12	8.33	0.00363	0.00363			
Parco Eva	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12	16.67	0.00337	0.008			
Parco Eva	1,2,4-Trimethylbenzene	12	25	0.00111	0.0025			
Parco Eva	1,2-Dichloroethane	12	16.67	0.0018	0.00299			
Parco Eva	1,3,5-Trimethylbenzene	12	25	0.00152	0.00248			
Parco Eva	1,3-Dichlorobenzene	12	16.67	0.00138	0.0017			
Parco Eva	1,3-Dichloropropane	12	16.67	0.0019	0.00239			
Parco Eva	1,4-Dichlorobenzene	12	8.33	0.00187	0.00187			
Parco Eva	2-Butanone (methyl ethyl ketone)	12	16.67	0.00359	0.00398			
Parco Eva	4-Isopropyltoluene	12	41.67	0.000781	0.00237			
Parco Eva	Acetone	12	83.33	0.00835	0.104			
Parco Eva	Benzene	12	8.33	0.000932	0.000932			
Parco Eva	Bromodichloromethane	12	8.33	0.0031	0.0031			
Parco Eva	Chlorobenzene	12	25	0.000652	0.00346			
Parco Eva	Chloroform	12	8.33	0.00121	0.00121			
Parco Eva	Dibromochloromethane	12	8.33	0.00278	0.00278			
Parco Eva	Ethylbenzene	12	41.67	0.000907	0.00547			
Parco Eva	Isopropylbenzene	12	41.67	0.000933	0.00348			
Parco Eva	Styrene	12	41.67	0.00059	0.00406			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	Tetrachloroethene	12	16.67	0.00277	0.00443	0.57	0.00777193	
Parco Eva	Toluene	12	75	0.00113	0.0138			
Parco Eva	Total Trihalomethanes	12	8.33	0.00709	0.00709			
Parco Eva	Trichloroethene	12	8.33	0.00229	0.00229	2.8	0.000817857	
Parco Eva	m,p-Xylenes	12	41.67	0.00134	0.00833			
Parco Eva	n-Butylbenzene	12	41.67	0.000426	0.0016			
Parco Eva	n-Propylbenzene	12	41.67	0.000631	0.00263			
Parco Eva	o-Xylene	12	41.67	0.000692	0.00367			
Parco Eva	sec-Butylbenzene	12	41.67	0.000713	0.00211			
Parco Eva	tert-Butylbenzene	12	41.67	0.000852	0.00292			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	Tetrachloroethene	12	16.67	0.00277	0.00443	380	1.16579E-05	
Parco Eva	Toluene	12	75	0.00113	0.0138	5000	0.00000276	
Parco Eva	Total Trihalomethanes	12	8.33	0.00709	0.00709			
Parco Eva	Trichloroethene	12	8.33	0.00229	0.00229			
Parco Eva	m,p-Xylenes	12	41.67	0.00134	0.00833	600	1.38833E-05	
Parco Eva	n-Butylbenzene	12	41.67	0.000426	0.0016			
Parco Eva	n-Propylbenzene	12	41.67	0.000631	0.00263			
Parco Eva	o-Xylene	12	41.67	0.000692	0.00367	5300	6.92453E-07	
Parco Eva	sec-Butylbenzene	12	41.67	0.000713	0.00211			
Parco Eva	tert-Butylbenzene	12	41.67	0.000852	0.00292			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	Tetrachloroethene	12	16.67	0.00277	0.00443			
Parco Eva	Toluene	12	75	0.00113	0.0138			
Parco Eva	Total Trihalomethanes	12	8.33	0.00709	0.00709			
Parco Eva	Trichloroethene	12	8.33	0.00229	0.00229			
Parco Eva	m,p-Xylenes	12	41.67	0.00134	0.00833			
Parco Eva	n-Butylbenzene	12	41.67	0.000426	0.0016			
Parco Eva	n-Propylbenzene	12	41.67	0.000631	0.00263			
Parco Eva	o-Xylene	12	41.67	0.000692	0.00367			
Parco Eva	sec-Butylbenzene	12	41.67	0.000713	0.00211			
Parco Eva	tert-Butylbenzene	12	41.67	0.000852	0.00292			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Cyanide	11	9.09	0.172	0.172			
Parco Le Ginestra	TOTAL HPCDD	11	100	0.0000012	0.000013			
Parco Le Ginestra	TOTAL HPCDF	11	100	0.00000082	0.000017			
Parco Le Ginestra	TOTAL HXCDD	11	90.91	0.0000004	0.000012			
Parco Le Ginestra	TOTAL HXCDF	11	100	0.00000013	0.000033			
Parco Le Ginestra	TOTAL PECDD	11	100	0.000000067	0.0000046			
Parco Le Ginestra	TOTAL PECDF	11	100	0.000000069	0.00003			
Parco Le Ginestra	TOTAL TCDD	11	100	0.000000066	0.0000052			
Parco Le Ginestra	TOTAL TCDF	11	100	0.000000042	0.000021			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	11	100	2.94E-08	2.8857E-06	0.0000045	0.641266667	
Parco Le Ginestra	Total Solids	5	100	77.1	90			
Parco Le Ginestra	Aluminum	11	100	20900	59800			
Parco Le Ginestra	Antimony	11	100	0.293	0.68			
Parco Le Ginestra	Arsenic	11	100	5.5	21	0.39	53.84615385	100
Parco Le Ginestra	Barium	11	100	130	426			
Parco Le Ginestra	Beryllium	11	100	2.7	7.9	1400	0.005642857	
Parco Le Ginestra	Cadmium (Food)	11	100	0.082	0.4	1800	0.000222222	
Parco Le Ginestra	Chromium	11	100	2.82	6.4			
Parco Le Ginestra	Cobalt	11	100	2.9	6.9			
Parco Le Ginestra	Copper	11	100	8.9	57.8			
Parco Le Ginestra	Iron	11	100	10800	27200			
Parco Le Ginestra	Lead	11	100	19.2	70.7			
Parco Le Ginestra	Manganese (food)	11	100	394	851			
Parco Le Ginestra	Mercury	11	18.18	0.137	0.14			
Parco Le Ginestra	Nickel	11	100	2.9	7.45			
Parco Le Ginestra	Selenium	11	81.82	0.0814	0.659			
Parco Le Ginestra	Silver	11	63.64	0.11	0.323			
Parco Le Ginestra	Thallium	11	36.36	1.78	2.53			
Parco Le Ginestra	Tin	11	100	1.4	7.6			
Parco Le Ginestra	Vanadium	11	100	19	58			
Parco Le Ginestra	Zinc	11	100	35.2	72			
Parco Le Ginestra	2-Chloronaphthalene	11	9.09	0.0105	0.0105			
Parco Le Ginestra	2-Methylnaphthalene	11	9.09	0.0224	0.0224			
Parco Le Ginestra	Hexachloroethane	11	9.09	0.0145	0.0145	35	0.000414286	
Parco Le Ginestra	Naphthalene	11	9.09	0.00899	0.00899	3.9	0.002305128	
Parco Le Ginestra	Phenol	11	9.09	0.0473	0.0473			
Parco Le Ginestra	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11	36.36	0.00242	0.00684			
Parco Le Ginestra	1,1,2-Trichloroethane	11	9.09	0.00387	0.00387	1.1	0.003518182	
Parco Le Ginestra	1,2,4-Trimethylbenzene	11	45.45	0.00165	0.00622			
Parco Le Ginestra	1,2-Dichlorobenzene	11	9.09	0.00101	0.00101			
Parco Le Ginestra	1,2-Dichloroethane	11	9.09	0.00216	0.00216	0.45	0.0048	
Parco Le Ginestra	1,3,5-Trimethylbenzene	11	45.45	0.00122	0.0058			
Parco Le Ginestra	1,3-Dichlorobenzene	11	36.36	0.000941	0.00434			
Parco Le Ginestra	1,3-Dichloropropane	11	18.18	0.00172	0.00223			
Parco Le Ginestra	1,4-Dichlorobenzene	11	36.36	0.000993	0.00373	2.6	0.001434615	
Parco Le Ginestra	2-Chlorotoluene	11	27.27	0.00169	0.0113			
Parco Le Ginestra	4-Chlorotoluene	11	27.27	0.00176	0.00623			
Parco Le Ginestra	4-Isopropyltoluene	11	72.73	0.000531	0.00514			
Parco Le Ginestra	Acetone	11	81.82	0.00841	0.0478			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Cyanide	11	9.09	0.172	0.172	1600	0.0001075	
Parco Le Ginestra	TOTAL HPCDD	11	100	0.0000012	0.000013			
Parco Le Ginestra	TOTAL HPCDF	11	100	0.0000082	0.000017			
Parco Le Ginestra	TOTAL HXCDD	11	90.91	0.0000004	0.000012			
Parco Le Ginestra	TOTAL HXCDF	11	100	0.0000013	0.000033			
Parco Le Ginestra	TOTAL PECDD	11	100	0.00000067	0.0000046			
Parco Le Ginestra	TOTAL PECDF	11	100	0.00000069	0.00003			
Parco Le Ginestra	TOTAL TCDD	11	100	0.00000066	0.0000052			
Parco Le Ginestra	TOTAL TCDF	11	100	0.00000042	0.000021			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	11	100	2.94E-08	2.8857E-06	0.000072	0.040079167	
Parco Le Ginestra	Total Solids	5	100	77.1	90			
Parco Le Ginestra	Aluminum	11	100	20900	59800	77000	0.776623377	
Parco Le Ginestra	Antimony	11	100	0.293	0.68	31	0.021935484	
Parco Le Ginestra	Arsenic	11	100	5.5	21	22	0.954545455	
Parco Le Ginestra	Barium	11	100	130	426	15000	0.0284	
Parco Le Ginestra	Beryllium	11	100	2.7	7.9	160	0.049375	
Parco Le Ginestra	Cadmium (Food)	11	100	0.082	0.4	70	0.005714286	
Parco Le Ginestra	Chromium	11	100	2.82	6.4			
Parco Le Ginestra	Cobalt	11	100	2.9	6.9			
Parco Le Ginestra	Copper	11	100	8.9	57.8	3100	0.018645161	
Parco Le Ginestra	Iron	11	100	10800	27200	55000	0.494545455	
Parco Le Ginestra	Lead	11	100	19.2	70.7	400	0.17675	
Parco Le Ginestra	Manganese (food)	11	100	394	851			
Parco Le Ginestra	Mercury	11	18.18	0.137	0.14	6.7	0.020895522	
Parco Le Ginestra	Nickel	11	100	2.9	7.45	1600	0.00465625	
Parco Le Ginestra	Selenium	11	81.82	0.0814	0.659	390	0.001689744	
Parco Le Ginestra	Silver	11	63.64	0.11	0.323	390	0.000828205	
Parco Le Ginestra	Thallium	11	36.36	1.78	2.53	5.1	0.496078431	
Parco Le Ginestra	Tin	11	100	1.4	7.6	47000	0.000161702	
Parco Le Ginestra	Vanadium	11	100	19	58	550	0.105454545	
Parco Le Ginestra	Zinc	11	100	35.2	72	23000	0.003130435	
Parco Le Ginestra	2-Chloronaphthalene	11	9.09	0.0105	0.0105	6300	1.66667E-06	
Parco Le Ginestra	2-Methylnaphthalene	11	9.09	0.0224	0.0224	310	7.22581E-05	
Parco Le Ginestra	Hexachloroethane	11	9.09	0.0145	0.0145	61	0.000237705	
Parco Le Ginestra	Naphthalene	11	9.09	0.00899	0.00899	150	5.99333E-05	
Parco Le Ginestra	Phenol	11	9.09	0.0473	0.0473	18000	2.62778E-06	
Parco Le Ginestra	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11	36.36	0.00242	0.00684	43000	1.5907E-07	
Parco Le Ginestra	1,1,2-Trichloroethane	11	9.09	0.00387	0.00387	310	1.24839E-05	
Parco Le Ginestra	1,2,4-Trimethylbenzene	11	45.45	0.00165	0.00622	67	9.28358E-05	
Parco Le Ginestra	1,2-Dichlorobenzene	11	9.09	0.00101	0.00101	2000	0.000000505	
Parco Le Ginestra	1,2-Dichloroethane	11	9.09	0.00216	0.00216	13000	1.66154E-07	
Parco Le Ginestra	1,3,5-Trimethylbenzene	11	45.45	0.00122	0.0058			
Parco Le Ginestra	1,3-Dichlorobenzene	11	36.36	0.000941	0.00434			
Parco Le Ginestra	1,3-Dichloropropane	11	18.18	0.00172	0.00223	1600	1.39375E-06	
Parco Le Ginestra	1,4-Dichlorobenzene	11	36.36	0.000993	0.00373	10000	0.000000373	
Parco Le Ginestra	2-Chlorotoluene	11	27.27	0.00169	0.0113	1600	7.0625E-06	
Parco Le Ginestra	4-Chlorotoluene	11	27.27	0.00176	0.00623	5500	1.13273E-06	
Parco Le Ginestra	4-Isopropyltoluene	11	72.73	0.000531	0.00514			
Parco Le Ginestra	Acetone	11	81.82	0.00841	0.0478	61000	7.83607E-07	

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Cyanide	11	9.09	0.172	0.172			
Parco Le Ginestra	TOTAL HPCDD	11	100	0.0000012	0.000013			
Parco Le Ginestra	TOTAL HPCDF	11	100	0.00000082	0.000017			
Parco Le Ginestra	TOTAL HXCDD	11	90.91	0.0000004	0.000012			
Parco Le Ginestra	TOTAL HXCDF	11	100	0.00000013	0.000033			
Parco Le Ginestra	TOTAL PECDD	11	100	0.000000067	0.0000046			
Parco Le Ginestra	TOTAL PECDF	11	100	0.000000069	0.00003			
Parco Le Ginestra	TOTAL TCDD	11	100	0.00000066	0.0000052			
Parco Le Ginestra	TOTAL TCDF	11	100	0.00000042	0.000021			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	11	100	2.94E-08	2.8857E-06			
Parco Le Ginestra	Total Solids	5	100	77.1	90			
Parco Le Ginestra	Aluminum	11	100	20900	59800	86900	0.688147296	
Parco Le Ginestra	Antimony	11	100	0.293	0.68	42.8	0.01588785	
Parco Le Ginestra	Arsenic	11	100	5.5	21	164	0.12804878	
Parco Le Ginestra	Barium	11	100	130	426	1813	0.234969664	
Parco Le Ginestra	Beryllium	11	100	2.7	7.9			
Parco Le Ginestra	Cadmium (Food)	11	100	0.082	0.4	10.6	0.037735849	
Parco Le Ginestra	Chromium	11	100	2.82	6.4	579	0.011053541	
Parco Le Ginestra	Cobalt	11	100	2.9	6.9	36.6	0.18852459	
Parco Le Ginestra	Copper	11	100	8.9	57.8	3965	0.014577554	
Parco Le Ginestra	Iron	11	100	10800	27200	154600	0.175937904	
Parco Le Ginestra	Lead	11	100	19.2	70.7	2052	0.034454191	
Parco Le Ginestra	Manganese (food)	11	100	394	851	5923	0.143677191	
Parco Le Ginestra	Mercury	11	18.18	0.137	0.14	2.66	0.052631579	
Parco Le Ginestra	Nickel	11	100	2.9	7.45	689	0.010812772	
Parco Le Ginestra	Selenium	11	81.82	0.0814	0.659	1.9	0.346842105	
Parco Le Ginestra	Silver	11	63.64	0.11	0.323	8.132	0.039719626	
Parco Le Ginestra	Thallium	11	36.36	1.78	2.53	69	0.036666667	
Parco Le Ginestra	Tin	11	100	1.4	7.6			
Parco Le Ginestra	Vanadium	11	100	19	58	187	0.310160428	
Parco Le Ginestra	Zinc	11	100	35.2	72	3211	0.022422921	
Parco Le Ginestra	2-Chloronaphthalene	11	9.09	0.0105	0.0105			
Parco Le Ginestra	2-Methylnaphthalene	11	9.09	0.0224	0.0224			
Parco Le Ginestra	Hexachloroethane	11	9.09	0.0145	0.0145			
Parco Le Ginestra	Naphthalene	11	9.09	0.00899	0.00899			
Parco Le Ginestra	Phenol	11	9.09	0.0473	0.0473			
Parco Le Ginestra	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11	36.36	0.00242	0.00684			
Parco Le Ginestra	1,1,2-Trichloroethane	11	9.09	0.00387	0.00387			
Parco Le Ginestra	1,2,4-Trimethylbenzene	11	45.45	0.00165	0.00622			
Parco Le Ginestra	1,2-Dichlorobenzene	11	9.09	0.00101	0.00101			
Parco Le Ginestra	1,2-Dichloroethane	11	9.09	0.00216	0.00216			
Parco Le Ginestra	1,3,5-Trimethylbenzene	11	45.45	0.00122	0.0058			
Parco Le Ginestra	1,3-Dichlorobenzene	11	36.36	0.000941	0.00434			
Parco Le Ginestra	1,3-Dichloropropane	11	18.18	0.00172	0.00223			
Parco Le Ginestra	1,4-Dichlorobenzene	11	36.36	0.000993	0.00373			
Parco Le Ginestra	2-Chlorotoluene	11	27.27	0.00169	0.0113			
Parco Le Ginestra	4-Chlorotoluene	11	27.27	0.00176	0.00623			
Parco Le Ginestra	4-Isopropyltoluene	11	72.73	0.000531	0.00514			
Parco Le Ginestra	Acetone	11	81.82	0.00841	0.0478			

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Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Benzene	11	9.09	0.000546	0.000546	1.1	0.000496364	
Parco Le Ginestra	Bromodichloromethane	11	18.18	0.00154	0.00228	10	0.000228	
Parco Le Ginestra	Chlorobenzene	11	36.36	0.00133	0.00251			
Parco Le Ginestra	Chloroform	11	9.09	0.000907	0.000907	0.3	0.003023333	
Parco Le Ginestra	Ethylbenzene	11	81.82	0.00048	0.00597	5.7	0.001047368	
Parco Le Ginestra	Isopropylbenzene	11	54.55	0.000711	0.00732			
Parco Le Ginestra	Methylene Chloride	11	9.09	0.00175	0.00175	11	0.000159091	
Parco Le Ginestra	Styrene	11	63.64	0.000752	0.00586			
Parco Le Ginestra	Tetrachloroethene	11	18.18	0.00213	0.00332	0.57	0.005824561	
Parco Le Ginestra	Toluene	11	100	0.000703	0.014			
Parco Le Ginestra	Total Trihalomethanes	11	18.18	0.00228	0.002447			
Parco Le Ginestra	cis-1,3-Dichloropropene	11	18.18	0.00106	0.00171			
Parco Le Ginestra	m,p-Xylenes	11	63.64	0.00138	0.0105			
Parco Le Ginestra	n-Butylbenzene	11	45.45	0.000874	0.00324			
Parco Le Ginestra	n-Propylbenzene	11	72.73	0.000435	0.00622			
Parco Le Ginestra	o-Xylene	11	54.55	0.000332	0.00403			
Parco Le Ginestra	sec-Butylbenzene	11	81.82	0.000318	0.00472			
Parco Le Ginestra	tert-Butylbenzene	11	63.64	0.00058	0.00446			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Benzene	11	9.09	0.000546	0.000546	90	6.06667E-06	
Parco Le Ginestra	Bromodichloromethane	11	18.18	0.00154	0.00228	1600	0.000001425	
Parco Le Ginestra	Chlorobenzene	11	36.36	0.00133	0.00251	310	8.09677E-06	
Parco Le Ginestra	Chloroform	11	9.09	0.000907	0.000907	220	4.12273E-06	
Parco Le Ginestra	Ethylbenzene	11	81.82	0.00048	0.00597	3600	1.65833E-06	
Parco Le Ginestra	Isopropylbenzene	11	54.55	0.000711	0.00732	2200	3.32727E-06	
Parco Le Ginestra	Methylene Chloride	11	9.09	0.00175	0.00175	1700	1.02941E-06	
Parco Le Ginestra	Styrene	11	63.64	0.000752	0.00586	6500	9.01538E-07	
Parco Le Ginestra	Tetrachloroethene	11	18.18	0.00213	0.00332	380	8.73684E-06	
Parco Le Ginestra	Toluene	11	100	0.000703	0.014	5000	0.0000028	
Parco Le Ginestra	Total Trihalomethanes	11	18.18	0.00228	0.002447			
Parco Le Ginestra	cis-1,3-Dichloropropene	11	18.18	0.00106	0.00171			
Parco Le Ginestra	m,p-Xylenes	11	63.64	0.00138	0.0105	600	0.0000175	
Parco Le Ginestra	n-Butylbenzene	11	45.45	0.000874	0.00324			
Parco Le Ginestra	n-Propylbenzene	11	72.73	0.000435	0.00622			
Parco Le Ginestra	o-Xylene	11	54.55	0.000332	0.00403	5300	7.60377E-07	
Parco Le Ginestra	sec-Butylbenzene	11	81.82	0.000318	0.00472			
Parco Le Ginestra	tert-Butylbenzene	11	63.64	0.00058	0.00446			

Table C-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Benzene	11	9.09	0.000546	0.000546			
Parco Le Ginestra	Bromodichloromethane	11	18.18	0.00154	0.00228			
Parco Le Ginestra	Chlorobenzene	11	36.36	0.00133	0.00251			
Parco Le Ginestra	Chloroform	11	9.09	0.000907	0.000907			
Parco Le Ginestra	Ethylbenzene	11	81.82	0.00048	0.00597			
Parco Le Ginestra	Isopropylbenzene	11	54.55	0.000711	0.00732			
Parco Le Ginestra	Methylene Chloride	11	9.09	0.00175	0.00175			
Parco Le Ginestra	Styrene	11	63.64	0.000752	0.00586			
Parco Le Ginestra	Tetrachloroethene	11	18.18	0.00213	0.00332			
Parco Le Ginestra	Toluene	11	100	0.000703	0.014			
Parco Le Ginestra	Total Trihalomethanes	11	18.18	0.00228	0.002447			
Parco Le Ginestra	cis-1,3-Dichloropropene	11	18.18	0.00106	0.00171			
Parco Le Ginestra	m,p-Xylenes	11	63.64	0.00138	0.0105			
Parco Le Ginestra	n-Butylbenzene	11	45.45	0.000874	0.00324			
Parco Le Ginestra	n-Propylbenzene	11	72.73	0.000435	0.00622			
Parco Le Ginestra	o-Xylene	11	54.55	0.000332	0.00403			
Parco Le Ginestra	sec-Butylbenzene	11	81.82	0.000318	0.00472			
Parco Le Ginestra	tert-Butylbenzene	11	63.64	0.00058	0.00446			

Table C-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcels and NAVFAC Leased Homes
Media: Soil Gas (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
NAVFAC Leased Homes	Benzene	6	33.33	0.000819752	0.002222338	0.0031	0.716883226	
NAVFAC Leased Homes	Pentadecane	6	16.67	0.001131677	0.001131677			
NAVFAC Leased Homes	TPH (C03-C20)	6	33.33	0.237756499	0.245745783			
NAVFAC Leased Homes	Undecane	6	33.33	0.010806491	0.015428178			

Table C-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcels and NAVFAC Leased Homes
Media: Soil Gas (mg/m³) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
NAVFAC Leased Homes	Benzene	6	33.33	0.000819752	0.002222338	0.31	0.007168832	
NAVFAC Leased Homes	Pentadecane	6	16.67	0.001131677	0.001131677			
NAVFAC Leased Homes	TPH (C03-C20)	6	33.33	0.237756499	0.245745783			
NAVFAC Leased Homes	Undecane	6	33.33	0.010806491	0.015428178			

Table C-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	1,2,4-Trimethylbenzene	10	10	0.001932723	0.001932723			
Parco Artemide	m,p-Xylenes	10	10	0.001870534	0.001870534			
Parco Artemide	Tetrachloroethene	10	20	0.002543782	0.003261127	0.0041	0.795396829	
Parco Artemide	TPH (C03-C20)	10	80	0.004378176	2.743808113			
Parco Artemide	Trichloroethene	10	20	0.000783907	0.004016563	0.012	0.334713583	
Parco Artemide	Undecane	10	10	0.010806023	0.010806023			

Table C-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	1,2,4-Trimethylbenzene	10	10	0.001932723	0.001932723	0.073	0.026475658	
Parco Artemide	m,p-Xylenes	10	10	0.001870534	0.001870534	1	0.001870534	
Parco Artemide	Tetrachloroethene	10	20	0.002543782	0.003261127	2.8	0.001164688	
Parco Artemide	TPH (C03-C20)	10	80	0.004378176	2.743808113			
Parco Artemide	Trichloroethene	10	20	0.000783907	0.004016563			
Parco Artemide	Undecane	10	10	0.010806023	0.010806023			

Table C-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	m,p-Xylenes	10	10	0.002648698	0.002648698			
Parco Eva	Pentadecane	10	50	0.001110309	0.009494737			
Parco Eva	Tetrachloroethene	10	20	0.025723238	0.040719929	0.0041	9.93169	20
Parco Eva	TPH (C03-C20)	10	90	0.002531063	0.728533036			
Parco Eva	Tridecane	10	40	0.001034626	0.010528647			
Parco Eva	Undecane	10	30	0.00104369	0.004056842			

Table C-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	m,p-Xylenes	10	10	0.002648698	0.002648698	1	0.002648698	
Parco Eva	Pentadecane	10	50	0.001110309	0.009494737			
Parco Eva	Tetrachloroethene	10	20	0.025723238	0.040719929	2.8	0.014542832	
Parco Eva	TPH (C03-C20)	10	90	0.002531063	0.728533036			
Parco Eva	Tridecane	10	40	0.001034626	0.010528647			
Parco Eva	Undecane	10	30	0.00104369	0.004056842			

Table C-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Cancer RSLs		
						Soil Gas Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Chloroform	9	11.11	0.009935611	0.009935611	0.0011	9.032373636	11.11111111
Parco Le Ginestra	Pentadecane	9	77.78	0.001150963	0.023900771			
Parco Le Ginestra	Tetrachloroethene	9	88.89	0.003546405	0.704052092	0.0041	171.7200224	66.66666667
Parco Le Ginestra	Total Trihalomethanes	9	11.11	0.009935611	0.009935611			
Parco Le Ginestra	TPH (C03-C20)	9	88.89	0.051012231	0.765448648			
Parco Le Ginestra	Tridecane	9	66.67	0.001163452	0.006407414			
Parco Le Ginestra	Undecane	9	33.33	0.001069844	0.002822717			

Table C-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Soil Gas (mg/m3) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Gas Non-cancer RSLs		
						Soil Gas Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Chloroform	9	11.11	0.009935611	0.009935611	1	0.009935611	
Parco Le Ginestra	Pentadecane	9	77.78	0.001150963	0.023900771			
Parco Le Ginestra	Tetrachloroethene	9	88.89	0.003546405	0.704052092	2.8	0.251447176	
Parco Le Ginestra	Total Trihalomethanes	9	11.11	0.009935611	0.009935611			
Parco Le Ginestra	TPH (C03-C20)	9	88.89	0.051012231	0.765448648			
Parco Le Ginestra	Tridecane	9	66.67	0.001163452	0.006407414			
Parco Le Ginestra	Undecane	9	33.33	0.001069844	0.002822717			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcels and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
NAVFAC Leased Homes	1,1-Dichloroethene	6	16.67	0.000193	0.000193			
NAVFAC Leased Homes	Aluminum	6	33.33	0.00221	0.00398			
NAVFAC Leased Homes	Antimony	6	83.33	0.000185	0.000402			
NAVFAC Leased Homes	Arsenic	6	100	0.00312	0.00552	0.000045	122.6666667	100
NAVFAC Leased Homes	Barium	6	100	0.0129	0.0703			
NAVFAC Leased Homes	Beryllium	6	50	0.0000412	0.0000644			
NAVFAC Leased Homes	Bromodichloromethane	6	16.67	0.000207	0.000207	0.0011	0.188181818	
NAVFAC Leased Homes	Bromoform	6	83.33	0.000403	0.006	0.0085	0.705882353	
NAVFAC Leased Homes	Cadmium (Water)	6	66.67	0.0000445	0.000184			
NAVFAC Leased Homes	Chloride	6	100	7.55	40.7			
NAVFAC Leased Homes	Chlorine (as Cl2)	9	100	0.04	0.8			
NAVFAC Leased Homes	Chloroform	6	16.67	0.000212	0.000212	0.00019	1.115789474	16.6666667
NAVFAC Leased Homes	Chromium	6	100	0.000371	0.000839			
NAVFAC Leased Homes	cis-1,2-Dichloroethene	6	33.33	0.00024	0.000252			
NAVFAC Leased Homes	Cobalt	6	100	0.00015	0.0158			
NAVFAC Leased Homes	Copper	6	100	0.0587	0.595			
NAVFAC Leased Homes	Dibromochloromethane	6	66.67	0.000466	0.00077	0.0008	0.9625	
NAVFAC Leased Homes	Dissolved Oxygen	9	100	7.24	8.9			
NAVFAC Leased Homes	Fecal Streptococcus	9	100					
NAVFAC Leased Homes	Fluoride	6	66.67	0.214	0.479			
NAVFAC Leased Homes	Heterotrophic plate count	9	100	1	10360			
NAVFAC Leased Homes	Iron	6	83.33	0.0103	0.0267			
NAVFAC Leased Homes	Lead	6	100	0.00146	0.00495			
NAVFAC Leased Homes	Manganese (nonfood)	6	100	0.00027	0.0182			
NAVFAC Leased Homes	Mercury	6	16.67	0.000019	0.000019			
NAVFAC Leased Homes	Nickel	6	100	0.00155	0.014			
NAVFAC Leased Homes	Nitrate (measured as NO3-)	6	100	2.8	21			
NAVFAC Leased Homes	Oxidation Reduction Potential	9	100	59.8	643			
NAVFAC Leased Homes	Ph	9	100	7.32	8.16			
NAVFAC Leased Homes	Salinity	9	100					
NAVFAC Leased Homes	Selenium	6	83.33	0.000221	0.00105			
NAVFAC Leased Homes	Specific Conductance	9	100	0.57	0.93			
NAVFAC Leased Homes	Sulfate	6	100	5.08	38.8			
NAVFAC Leased Homes	Temperature	9	100	23.37	29.98			
NAVFAC Leased Homes	Tetrachloroethene	6	16.67	0.000232	0.000232	0.00011	2.109090909	16.6666667
NAVFAC Leased Homes	Tin	6	16.67	0.00027	0.00027			
NAVFAC Leased Homes	Toluene	6	33.33	0.000188	0.000266			
NAVFAC Leased Homes	Total Coliforms (including fecal coliform and E. C	9	11.11	12.4	12.4			
NAVFAC Leased Homes	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	66.67	4.942E-11	4.1288E-10	5.2E-10	0.794	
NAVFAC Leased Homes	TOTAL HPCDD	6	100	1.5E-09	7.7E-09			
NAVFAC Leased Homes	TOTAL HPCDF	6	100	1.207E-09	0.000000015			
NAVFAC Leased Homes	TOTAL HXCDF	6	16.67	3.6E-09	3.6E-09			
NAVFAC Leased Homes	TOTAL PECDF	6	50	5.63E-10	9.9E-10			
NAVFAC Leased Homes	TOTAL TCDF	6	33.33	5.1E-10	0.000000001			
NAVFAC Leased Homes	Total Trihalomethanes	6	83.33	0.000403	0.00677			
NAVFAC Leased Homes	Trichloroethene	6	50	0.000294	0.000727	0.0017	0.427647059	
NAVFAC Leased Homes	Turbidity	2	100	1	2			
NAVFAC Leased Homes	Uranium	6	100	0.000512	0.00388			
NAVFAC Leased Homes	Vanadium	6	100	0.00107	0.00473			
NAVFAC Leased Homes	Zinc	6	100	0.292	1.31			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcels and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
NAVFAC Leased Homes	1,1-Dichloroethene	6	16.67	0.000193	0.000193	0.34		0.000567647
NAVFAC Leased Homes	Aluminum	6	33.33	0.00221	0.00398	37		0.000107568
NAVFAC Leased Homes	Antimony	6	83.33	0.000185	0.000402	0.015		0.0268
NAVFAC Leased Homes	Arsenic	6	100	0.00312	0.00552	0.011		0.501818182
NAVFAC Leased Homes	Barium	6	100	0.0129	0.0703	7.3		0.009630137
NAVFAC Leased Homes	Beryllium	6	50	0.0000412	0.0000644	0.073		0.000882192
NAVFAC Leased Homes	Bromodichloromethane	6	16.67	0.000207	0.000207	0.73		0.000283562
NAVFAC Leased Homes	Bromoform	6	83.33	0.000403	0.006	0.73		0.008219178
NAVFAC Leased Homes	Cadmium (Water)	6	66.67	0.0000445	0.000184	0.018		0.010222222
NAVFAC Leased Homes	Chloride	6	100	7.55	40.7			
NAVFAC Leased Homes	Chlorine (as Cl2)	9	100	0.04	0.8			
NAVFAC Leased Homes	Chloroform	6	16.67	0.000212	0.000212	0.13		0.001630769
NAVFAC Leased Homes	Chromium	6	100	0.000371	0.000839			
NAVFAC Leased Homes	cis-1,2-Dichloroethene	6	33.33	0.00024	0.000252	0.37		0.000681081
NAVFAC Leased Homes	Cobalt	6	100	0.00015	0.0158			
NAVFAC Leased Homes	Copper	6	100	0.0587	0.595	1.5		0.396666667
NAVFAC Leased Homes	Dibromochloromethane	6	66.67	0.000466	0.00077	0.73		0.001054795
NAVFAC Leased Homes	Dissolved Oxygen	9	100	7.24	8.9			
NAVFAC Leased Homes	Fecal Streptococcus	9	100					
NAVFAC Leased Homes	Fluoride	6	66.67	0.214	0.479			
NAVFAC Leased Homes	Heterotrophic plate count	9	100	1	10360			
NAVFAC Leased Homes	Iron	6	83.33	0.0103	0.0267	26		0.001026923
NAVFAC Leased Homes	Lead	6	100	0.00146	0.00495	0.02		0.2475
NAVFAC Leased Homes	Manganese (nonfood)	6	100	0.00027	0.0182	0.88		0.020681818
NAVFAC Leased Homes	Mercury	6	16.67	0.000019	0.000019	0.00063		0.03015873
NAVFAC Leased Homes	Nickel	6	100	0.00155	0.014	0.73		0.019178082
NAVFAC Leased Homes	Nitrate (measured as NO3-)	6	100	2.8	21	255.2		0.082288401
NAVFAC Leased Homes	Oxidation Reduction Potential	9	100	59.8	643			
NAVFAC Leased Homes	Ph	9	100	7.32	8.16			
NAVFAC Leased Homes	Salinity	9	100					
NAVFAC Leased Homes	Selenium	6	83.33	0.000221	0.00105	0.18		0.005833333
NAVFAC Leased Homes	Specific Conductance	9	100	0.57	0.93			
NAVFAC Leased Homes	Sulfate	6	100	5.08	38.8			
NAVFAC Leased Homes	Temperature	9	100	23.37	29.98			
NAVFAC Leased Homes	Tetrachloroethene	6	16.67	0.000232	0.000232	0.22		0.001054545
NAVFAC Leased Homes	Tin	6	16.67	0.00027	0.00027	22		1.22727E-05
NAVFAC Leased Homes	Toluene	6	33.33	0.000188	0.000266	2.3		0.000115652
NAVFAC Leased Homes	Total Coliforms (including fecal coliform and E. C	9	11.11	12.4	12.4			
NAVFAC Leased Homes	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	66.67	4.942E-11	4.1288E-10	0.000000037		0.011158919
NAVFAC Leased Homes	TOTAL HPCDD	6	100	1.5E-09	7.7E-09			
NAVFAC Leased Homes	TOTAL HPCDF	6	100	1.207E-09	0.000000015			
NAVFAC Leased Homes	TOTAL HXCDF	6	16.67	3.6E-09	3.6E-09			
NAVFAC Leased Homes	TOTAL PECDF	6	50	5.63E-10	9.9E-10			
NAVFAC Leased Homes	TOTAL TCDF	6	33.33	5.1E-10	0.000000001			
NAVFAC Leased Homes	Total Trihalomethanes	6	83.33	0.000403	0.00677			
NAVFAC Leased Homes	Trichloroethene	6	50	0.000294	0.000727			
NAVFAC Leased Homes	Turbidity	2	100	1	2			
NAVFAC Leased Homes	Uranium	6	100	0.000512	0.00388	0.11		0.035272727
NAVFAC Leased Homes	Vanadium	6	100	0.00107	0.00473	0.26		0.018192308
NAVFAC Leased Homes	Zinc	6	100	0.292	1.31	11		0.119090909

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcels and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
NAVFAC Leased Homes	1,1-Dichloroethene	6	16.67	0.000193	0.000193			
NAVFAC Leased Homes	Aluminum	6	33.33	0.00221	0.00398			
NAVFAC Leased Homes	Antimony	6	83.33	0.000185	0.000402			
NAVFAC Leased Homes	Arsenic	6	100	0.00312	0.00552			
NAVFAC Leased Homes	Barium	6	100	0.0129	0.0703			
NAVFAC Leased Homes	Beryllium	6	50	0.0000412	0.0000644			
NAVFAC Leased Homes	Bromodichloromethane	6	16.67	0.000207	0.000207			
NAVFAC Leased Homes	Bromoform	6	83.33	0.000403	0.006			
NAVFAC Leased Homes	Cadmium (Water)	6	66.67	0.0000445	0.000184			
NAVFAC Leased Homes	Chloride	6	100	7.55	40.7			
NAVFAC Leased Homes	Chlorine (as Cl2)	9	100	0.04	0.8			
NAVFAC Leased Homes	Chloroform	6	16.67	0.000212	0.000212	0.00021	1.00952381	16.66666667
NAVFAC Leased Homes	Chromium	6	100	0.000371	0.000839			
NAVFAC Leased Homes	cis-1,2-Dichloroethene	6	33.33	0.00024	0.000252			
NAVFAC Leased Homes	Cobalt	6	100	0.00015	0.0158			
NAVFAC Leased Homes	Copper	6	100	0.0587	0.595			
NAVFAC Leased Homes	Dibromochloromethane	6	66.67	0.000466	0.00077			
NAVFAC Leased Homes	Dissolved Oxygen	9	100	7.24	8.9			
NAVFAC Leased Homes	Fecal Streptococcus	9	100					
NAVFAC Leased Homes	Fluoride	6	66.67	0.214	0.479			
NAVFAC Leased Homes	Heterotrophic plate count	9	100	1	10360			
NAVFAC Leased Homes	Iron	6	83.33	0.0103	0.0267			
NAVFAC Leased Homes	Lead	6	100	0.00146	0.00495			
NAVFAC Leased Homes	Manganese (nonfood)	6	100	0.00027	0.0182			
NAVFAC Leased Homes	Mercury	6	16.67	0.000019	0.000019			
NAVFAC Leased Homes	Nickel	6	100	0.00155	0.014			
NAVFAC Leased Homes	Nitrate (measured as NO3-)	6	100	2.8	21			
NAVFAC Leased Homes	Oxidation Reduction Potential	9	100	59.8	643			
NAVFAC Leased Homes	Ph	9	100	7.32	8.16			
NAVFAC Leased Homes	Salinity	9	100					
NAVFAC Leased Homes	Selenium	6	83.33	0.000221	0.00105			
NAVFAC Leased Homes	Specific Conductance	9	100	0.57	0.93			
NAVFAC Leased Homes	Sulfate	6	100	5.08	38.8			
NAVFAC Leased Homes	Temperature	9	100	23.37	29.98			
NAVFAC Leased Homes	Tetrachloroethene	6	16.67	0.000232	0.000232	0.00082	0.282926829	
NAVFAC Leased Homes	Tin	6	16.67	0.00027	0.00027			
NAVFAC Leased Homes	Toluene	6	33.33	0.000188	0.000266			
NAVFAC Leased Homes	Total Coliforms (including fecal coliform and E. C	9	11.11	12.4	12.4			
NAVFAC Leased Homes	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	66.67	4.942E-11	4.1288E-10			
NAVFAC Leased Homes	TOTAL HPCDD	6	100	1.5E-09	7.7E-09			
NAVFAC Leased Homes	TOTAL HPCDF	6	100	1.207E-09	0.000000015			
NAVFAC Leased Homes	TOTAL HXCDF	6	16.67	3.6E-09	3.6E-09			
NAVFAC Leased Homes	TOTAL PECDF	6	50	5.63E-10	9.9E-10			
NAVFAC Leased Homes	TOTAL TCDF	6	33.33	5.1E-10	0.000000001			
NAVFAC Leased Homes	Total Trihalomethanes	6	83.33	0.000403	0.00677			
NAVFAC Leased Homes	Trichloroethene	6	50	0.000294	0.000727	0.0024	0.302916667	
NAVFAC Leased Homes	Turbidity	2	100	1	2			
NAVFAC Leased Homes	Uranium	6	100	0.000512	0.00388			
NAVFAC Leased Homes	Vanadium	6	100	0.00107	0.00473			
NAVFAC Leased Homes	Zinc	6	100	0.292	1.31			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcels and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
NAVFAC Leased Homes	1,1-Dichloroethene	6	16.67	0.000193	0.000193	0.42	0.000459524	
NAVFAC Leased Homes	Aluminum	6	33.33	0.00221	0.00398			
NAVFAC Leased Homes	Antimony	6	83.33	0.000185	0.000402			
NAVFAC Leased Homes	Arsenic	6	100	0.00312	0.00552			
NAVFAC Leased Homes	Barium	6	100	0.0129	0.0703			
NAVFAC Leased Homes	Beryllium	6	50	0.0000412	0.0000644			
NAVFAC Leased Homes	Bromodichloromethane	6	16.67	0.000207	0.000207			
NAVFAC Leased Homes	Bromoform	6	83.33	0.000403	0.006			
NAVFAC Leased Homes	Cadmium (Water)	6	66.67	0.0000445	0.000184			
NAVFAC Leased Homes	Chloride	6	100	7.55	40.7			
NAVFAC Leased Homes	Chlorine (as Cl2)	9	100	0.04	0.8			
NAVFAC Leased Homes	Chloroform	6	16.67	0.000212	0.000212	0.2	0.00106	
NAVFAC Leased Homes	Chromium	6	100	0.000371	0.000839			
NAVFAC Leased Homes	cis-1,2-Dichloroethene	6	33.33	0.00024	0.000252			
NAVFAC Leased Homes	Cobalt	6	100	0.00015	0.0158			
NAVFAC Leased Homes	Copper	6	100	0.0587	0.595			
NAVFAC Leased Homes	Dibromochloromethane	6	66.67	0.000466	0.00077			
NAVFAC Leased Homes	Dissolved Oxygen	9	100	7.24	8.9			
NAVFAC Leased Homes	Fecal Streptococcus	9	100					
NAVFAC Leased Homes	Fluoride	6	66.67	0.214	0.479			
NAVFAC Leased Homes	Heterotrophic plate count	9	100	1	10360			
NAVFAC Leased Homes	Iron	6	83.33	0.0103	0.0267			
NAVFAC Leased Homes	Lead	6	100	0.00146	0.00495			
NAVFAC Leased Homes	Manganese (nonfood)	6	100	0.00027	0.0182			
NAVFAC Leased Homes	Mercury	6	16.67	0.000019	0.000019	0.00063	0.03015873	
NAVFAC Leased Homes	Nickel	6	100	0.00155	0.014			
NAVFAC Leased Homes	Nitrate (measured as NO3-)	6	100	2.8	21			
NAVFAC Leased Homes	Oxidation Reduction Potential	9	100	59.8	643			
NAVFAC Leased Homes	Ph	9	100	7.32	8.16			
NAVFAC Leased Homes	Salinity	9	100					
NAVFAC Leased Homes	Selenium	6	83.33	0.000221	0.00105			
NAVFAC Leased Homes	Specific Conductance	9	100	0.57	0.93			
NAVFAC Leased Homes	Sulfate	6	100	5.08	38.8			
NAVFAC Leased Homes	Temperature	9	100	23.37	29.98			
NAVFAC Leased Homes	Tetrachloroethene	6	16.67	0.000232	0.000232	0.57	0.000407018	
NAVFAC Leased Homes	Tin	6	16.67	0.00027	0.00027			
NAVFAC Leased Homes	Toluene	6	33.33	0.000188	0.000266	10	0.0000266	
NAVFAC Leased Homes	Total Coliforms (including fecal coliform and E. C	9	11.11	12.4	12.4			
NAVFAC Leased Homes	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	66.67	4.942E-11	4.1288E-10			
NAVFAC Leased Homes	TOTAL HPCDD	6	100	1.5E-09	7.7E-09			
NAVFAC Leased Homes	TOTAL HPCDF	6	100	1.207E-09	0.000000015			
NAVFAC Leased Homes	TOTAL HXCDF	6	16.67	3.6E-09	3.6E-09			
NAVFAC Leased Homes	TOTAL PECDF	6	50	5.63E-10	9.9E-10			
NAVFAC Leased Homes	TOTAL TCDF	6	33.33	5.1E-10	0.000000001			
NAVFAC Leased Homes	Total Trihalomethanes	6	83.33	0.000403	0.00677			
NAVFAC Leased Homes	Trichloroethene	6	50	0.000294	0.000727			
NAVFAC Leased Homes	Turbidity	2	100	1	2			
NAVFAC Leased Homes	Uranium	6	100	0.000512	0.00388			
NAVFAC Leased Homes	Vanadium	6	100	0.00107	0.00473			
NAVFAC Leased Homes	Zinc	6	100	0.292	1.31			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcels and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
NAVFAC Leased Homes	1,1-Dichloroethene	6	16.67	0.000193	0.000193	0.007	0.027571429	
NAVFAC Leased Homes	Aluminum	6	33.33	0.00221	0.00398			
NAVFAC Leased Homes	Antimony	6	83.33	0.000185	0.000402	0.006	0.067	
NAVFAC Leased Homes	Arsenic	6	100	0.00312	0.00552	0.01	0.552	
NAVFAC Leased Homes	Barium	6	100	0.0129	0.0703	2	0.03515	
NAVFAC Leased Homes	Beryllium	6	50	0.0000412	0.0000644	0.004	0.0161	
NAVFAC Leased Homes	Bromodichloromethane	6	16.67	0.000207	0.000207			
NAVFAC Leased Homes	Bromoform	6	83.33	0.000403	0.006			
NAVFAC Leased Homes	Cadmium (Water)	6	66.67	0.0000445	0.000184	0.005	0.0368	
NAVFAC Leased Homes	Chloride	6	100	7.55	40.7			
NAVFAC Leased Homes	Chlorine (as Cl2)	9	100	0.04	0.8	4.01	0.199501247	
NAVFAC Leased Homes	Chloroform	6	16.67	0.000212	0.000212			
NAVFAC Leased Homes	Chromium	6	100	0.000371	0.000839	0.1	0.00839	
NAVFAC Leased Homes	cis-1,2-Dichloroethene	6	33.33	0.00024	0.000252	0.07	0.0036	
NAVFAC Leased Homes	Cobalt	6	100	0.00015	0.0158			
NAVFAC Leased Homes	Copper	6	100	0.0587	0.595			
NAVFAC Leased Homes	Dibromochloromethane	6	66.67	0.000466	0.00077			
NAVFAC Leased Homes	Dissolved Oxygen	9	100	7.24	8.9			
NAVFAC Leased Homes	Fecal Streptococcus	9	100					
NAVFAC Leased Homes	Fluoride	6	66.67	0.214	0.479	4	0.11975	
NAVFAC Leased Homes	Heterotrophic plate count	9	100	1	10360			
NAVFAC Leased Homes	Iron	6	83.33	0.0103	0.0267			
NAVFAC Leased Homes	Lead	6	100	0.00146	0.00495			
NAVFAC Leased Homes	Manganese (nonfood)	6	100	0.00027	0.0182			
NAVFAC Leased Homes	Mercury	6	16.67	0.000019	0.000019	0.002	0.0095	
NAVFAC Leased Homes	Nickel	6	100	0.00155	0.014			
NAVFAC Leased Homes	Nitrate (measured as NO3-)	6	100	2.8	21	44.3	0.474040632	
NAVFAC Leased Homes	Oxidation Reduction Potential	9	100	59.8	643			
NAVFAC Leased Homes	Ph	9	100	7.32	8.16			
NAVFAC Leased Homes	Salinity	9	100					
NAVFAC Leased Homes	Selenium	6	83.33	0.000221	0.00105	0.05	0.021	
NAVFAC Leased Homes	Specific Conductance	9	100	0.57	0.93			
NAVFAC Leased Homes	Sulfate	6	100	5.08	38.8			
NAVFAC Leased Homes	Temperature	9	100	23.37	29.98			
NAVFAC Leased Homes	Tetrachloroethene	6	16.67	0.000232	0.000232	0.005	0.0464	
NAVFAC Leased Homes	Tin	6	16.67	0.00027	0.00027			
NAVFAC Leased Homes	Toluene	6	33.33	0.000188	0.000266	1	0.000266	
NAVFAC Leased Homes	Total Coliforms (including fecal coliform and E. C	9	11.11	12.4	12.4		1.1	11.11111111
NAVFAC Leased Homes	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	6	66.67	4.942E-11	4.1288E-10	0.00000003	0.013762667	
NAVFAC Leased Homes	TOTAL HPCDD	6	100	1.5E-09	7.7E-09			
NAVFAC Leased Homes	TOTAL HPCDF	6	100	1.207E-09	0.000000015			
NAVFAC Leased Homes	TOTAL HXCDF	6	16.67	3.6E-09	3.6E-09			
NAVFAC Leased Homes	TOTAL PECDF	6	50	5.63E-10	9.9E-10			
NAVFAC Leased Homes	TOTAL TCDF	6	33.33	5.1E-10	0.000000001			
NAVFAC Leased Homes	Total Trihalomethanes	6	83.33	0.000403	0.00677	0.0807	0.083890954	
NAVFAC Leased Homes	Trichloroethene	6	50	0.000294	0.000727	0.005	0.1454	
NAVFAC Leased Homes	Turbidity	2	100	1	2			
NAVFAC Leased Homes	Uranium	6	100	0.000512	0.00388	0.03	0.129333333	
NAVFAC Leased Homes	Vanadium	6	100	0.00107	0.00473			
NAVFAC Leased Homes	Zinc	6	100	0.292	1.31			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	1,2,4-Trimethylbenzene	10	10	0.000137	0.000137			
Parco Artemide	2-Methylnaphthalene	10	10	0.000352	0.000352			
Parco Artemide	Acetone	10	30	0.00104	0.00137			
Parco Artemide	Aluminum	10	30	0.00272	0.0142			
Parco Artemide	Aniline	10	20	0.0018	0.00248	0.012	0.206666667	
Parco Artemide	Antimony	10	90	0.000155	0.001557			
Parco Artemide	Arsenic	10	100	0.00193	0.00672	0.000045	149.3333333	100
Parco Artemide	Barium	10	100	0.011	0.0264			
Parco Artemide	Bromodichloromethane	10	90	0.000144	0.000299	0.0011	0.271818182	
Parco Artemide	Bromoform	10	100	0.00051	0.0028	0.0085	0.329411765	
Parco Artemide	Butyl benzyl phthalate	10	20	0.000103	0.000106			
Parco Artemide	Cadmium (Water)	10	90	0.0000404	0.000541			
Parco Artemide	Chloride	10	100	7.59	43.7			
Parco Artemide	Chlorine (as Cl2)	15	100		0.08			
Parco Artemide	Chloroform	10	90	0.0000962	0.000151	0.00019	0.794736842	
Parco Artemide	Chloromethane	10	40	0.000215	0.000279	0.0018	0.155	
Parco Artemide	Chromium	10	80	0.000201	0.000779			
Parco Artemide	Cobalt	10	100	0.0000922	0.00426			
Parco Artemide	Copper	10	100	0.0783	0.416			
Parco Artemide	Dibromochloromethane	10	100	0.000241	0.000652	0.0008	0.815	
Parco Artemide	Dissolved Oxygen	15	100		822			
Parco Artemide	Fecal Steptococcus	15	100					
Parco Artemide	Fluoride	10	10	0.591	0.591			
Parco Artemide	Heterotrophic plate count	15	100	2	6350			
Parco Artemide	Iron	10	100	0.00851	3.93			
Parco Artemide	Lead	10	100	0.00229	0.0284			
Parco Artemide	Manganese (nonfood)	10	100	0.00338	0.189			
Parco Artemide	Mercury	10	40	0.000026	0.000053			
Parco Artemide	Naphthalene	10	10	0.00673	0.00673	0.00014	48.07142857	10
Parco Artemide	n-Butylbenzene	10	10	0.000176	0.000176			
Parco Artemide	Nickel	10	100	0.0402	8.33			
Parco Artemide	Nitrate (measured as NO3-)	10	100	2.43	10.5			
Parco Artemide	Oxidation Reduction Potential	15	100	140	590			
Parco Artemide	Ph	15	100	7.22	7.74			
Parco Artemide	Salinity	15	100					
Parco Artemide	Silver	10	10	0.000164	0.000164			
Parco Artemide	Specific Conductance	15	100	0.6	0.88			
Parco Artemide	Sulfate	10	100	5.92	15.7			
Parco Artemide	Temperature	15	100	24.4	28.6			
Parco Artemide	Tin	10	50	0.000185	0.000829			
Parco Artemide	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.82E-11	3.4E-10	5.2E-10	0.653846154	
Parco Artemide	TOTAL HPCDD	10	100	1.2E-09	2.8E-09			
Parco Artemide	TOTAL HPCDF	10	100	1.6E-09	4.3E-09			
Parco Artemide	TOTAL HXCDD	10	90	4.3E-10	1.7E-09			
Parco Artemide	TOTAL HXCDF	10	40	6.6E-10	9.85E-10			
Parco Artemide	TOTAL PECDD	10	40	3.4E-10	4.7E-10			
Parco Artemide	TOTAL PECDF	10	90	4.6E-10	1.1E-09			
Parco Artemide	TOTAL TCDD	10	30	9.9E-10	3.5E-09			
Parco Artemide	TOTAL TCDF	10	90	2.8E-10	1.1E-09			
Parco Artemide	Total Trihalomethanes	10	100	0.0010492	0.00376			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	1,2,4-Trimethylbenzene	10	10	0.000137	0.000137	0.015	0.009133333	
Parco Artemide	2-Methylnaphthalene	10	10	0.000352	0.000352	0.15	0.002346667	
Parco Artemide	Acetone	10	30	0.00104	0.00137	22	6.22727E-05	
Parco Artemide	Aluminum	10	30	0.00272	0.0142	37	0.000383784	
Parco Artemide	Aniline	10	20	0.0018	0.00248	0.26	0.009538462	
Parco Artemide	Antimony	10	90	0.000155	0.001557	0.015	0.1038	
Parco Artemide	Arsenic	10	100	0.00193	0.00672	0.011	0.610909091	
Parco Artemide	Barium	10	100	0.011	0.0264	7.3	0.003616438	
Parco Artemide	Bromodichloromethane	10	90	0.000144	0.000299	0.73	0.000409589	
Parco Artemide	Bromoform	10	100	0.00051	0.0028	0.73	0.003835616	
Parco Artemide	Butyl benzyl phthalate	10	20	0.000103	0.000106	7.3	1.45205E-05	
Parco Artemide	Cadmium (Water)	10	90	0.0000404	0.000541	0.018	0.030055556	
Parco Artemide	Chloride	10	100	7.59	43.7			
Parco Artemide	Chlorine (as Cl2)	15	100		0.08			
Parco Artemide	Chloroform	10	90	0.0000962	0.000151	0.13	0.001161538	
Parco Artemide	Chloromethane	10	40	0.000215	0.000279	0.19	0.001468421	
Parco Artemide	Chromium	10	80	0.000201	0.000779			
Parco Artemide	Cobalt	10	100	0.0000922	0.00426			
Parco Artemide	Copper	10	100	0.0783	0.416	1.5	0.277333333	
Parco Artemide	Dibromochloromethane	10	100	0.000241	0.000652	0.73	0.000893151	
Parco Artemide	Dissolved Oxygen	15	100		822			
Parco Artemide	Fecal Steptococcus	15	100					
Parco Artemide	Fluoride	10	10	0.591	0.591			
Parco Artemide	Heterotrophic plate count	15	100	2	6350			
Parco Artemide	Iron	10	100	0.00851	3.93	26	0.151153846	
Parco Artemide	Lead	10	100	0.00229	0.0284	0.02	1.42	20
Parco Artemide	Manganese (nonfood)	10	100	0.00338	0.189	0.88	0.214772727	
Parco Artemide	Mercury	10	40	0.000026	0.000053	0.00063	0.084126984	
Parco Artemide	Naphthalene	10	10	0.00673	0.00673	0.0062	1.085483871	10
Parco Artemide	n-Butylbenzene	10	10	0.000176	0.000176			
Parco Artemide	Nickel	10	100	0.0402	8.33	0.73	11.4109589	30
Parco Artemide	Nitrate (measured as NO3-)	10	100	2.43	10.5	255.2	0.041144201	
Parco Artemide	Oxidation Reduction Potential	15	100	140	590			
Parco Artemide	Ph	15	100	7.22	7.74			
Parco Artemide	Salinity	15	100					
Parco Artemide	Silver	10	10	0.000164	0.000164	0.18	0.000911111	
Parco Artemide	Specific Conductance	15	100	0.6	0.88			
Parco Artemide	Sulfate	10	100	5.92	15.7			
Parco Artemide	Temperature	15	100	24.4	28.6			
Parco Artemide	Tin	10	50	0.000185	0.000829	22	3.76818E-05	
Parco Artemide	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.82E-11	3.4E-10	0.000000037	0.009189189	
Parco Artemide	TOTAL HPCDD	10	100	1.2E-09	2.8E-09			
Parco Artemide	TOTAL HPCDF	10	100	1.6E-09	4.3E-09			
Parco Artemide	TOTAL HXCDD	10	90	4.3E-10	1.7E-09			
Parco Artemide	TOTAL HXCDF	10	40	6.6E-10	9.85E-10			
Parco Artemide	TOTAL PECDD	10	40	3.4E-10	4.7E-10			
Parco Artemide	TOTAL PECDF	10	90	4.6E-10	1.1E-09			
Parco Artemide	TOTAL TCDD	10	30	9.9E-10	3.5E-09			
Parco Artemide	TOTAL TCDF	10	90	2.8E-10	1.1E-09			
Parco Artemide	Total Trihalomethanes	10	100	0.0010492	0.00376			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	1,2,4-Trimethylbenzene	10	10	0.000137	0.000137			
Parco Artemide	2-Methylnaphthalene	10	10	0.000352	0.000352			
Parco Artemide	Acetone	10	30	0.00104	0.00137			
Parco Artemide	Aluminum	10	30	0.00272	0.0142			
Parco Artemide	Aniline	10	20	0.0018	0.00248			
Parco Artemide	Antimony	10	90	0.000155	0.001557			
Parco Artemide	Arsenic	10	100	0.00193	0.00672			
Parco Artemide	Barium	10	100	0.011	0.0264			
Parco Artemide	Bromodichloromethane	10	90	0.000144	0.000299			
Parco Artemide	Bromoform	10	100	0.00051	0.0028			
Parco Artemide	Butyl benzyl phthalate	10	20	0.000103	0.000106			
Parco Artemide	Cadmium (Water)	10	90	0.0000404	0.000541			
Parco Artemide	Chloride	10	100	7.59	43.7			
Parco Artemide	Chlorine (as Cl2)	15	100		0.08			
Parco Artemide	Chloroform	10	90	0.0000962	0.000151	0.00021	0.719047619	
Parco Artemide	Chloromethane	10	40	0.000215	0.000279	0.0027	0.103333333	
Parco Artemide	Chromium	10	80	0.000201	0.000779			
Parco Artemide	Cobalt	10	100	0.0000922	0.00426			
Parco Artemide	Copper	10	100	0.0783	0.416			
Parco Artemide	Dibromochloromethane	10	100	0.000241	0.000652			
Parco Artemide	Dissolved Oxygen	15	100		822			
Parco Artemide	Fecal Steptococcus	15	100					
Parco Artemide	Fluoride	10	10	0.591	0.591			
Parco Artemide	Heterotrophic plate count	15	100	2	6350			
Parco Artemide	Iron	10	100	0.00851	3.93			
Parco Artemide	Lead	10	100	0.00229	0.0284			
Parco Artemide	Manganese (nonfood)	10	100	0.00338	0.189			
Parco Artemide	Mercury	10	40	0.000026	0.000053			
Parco Artemide	Naphthalene	10	10	0.00673	0.00673	0.00014	48.07142857	10
Parco Artemide	n-Butylbenzene	10	10	0.000176	0.000176			
Parco Artemide	Nickel	10	100	0.0402	8.33			
Parco Artemide	Nitrate (measured as NO3-)	10	100	2.43	10.5			
Parco Artemide	Oxidation Reduction Potential	15	100	140	590			
Parco Artemide	Ph	15	100	7.22	7.74			
Parco Artemide	Salinity	15	100					
Parco Artemide	Silver	10	10	0.000164	0.000164			
Parco Artemide	Specific Conductance	15	100	0.6	0.88			
Parco Artemide	Sulfate	10	100	5.92	15.7			
Parco Artemide	Temperature	15	100	24.4	28.6			
Parco Artemide	Tin	10	50	0.000185	0.000829			
Parco Artemide	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.82E-11	3.4E-10			
Parco Artemide	TOTAL HPCDD	10	100	1.2E-09	2.8E-09			
Parco Artemide	TOTAL HPCDF	10	100	1.6E-09	4.3E-09			
Parco Artemide	TOTAL HXCDD	10	90	4.3E-10	1.7E-09			
Parco Artemide	TOTAL HXCDF	10	40	6.6E-10	9.85E-10			
Parco Artemide	TOTAL PECDD	10	40	3.4E-10	4.7E-10			
Parco Artemide	TOTAL PECDF	10	90	4.6E-10	1.1E-09			
Parco Artemide	TOTAL TCDD	10	30	9.9E-10	3.5E-09			
Parco Artemide	TOTAL TCDF	10	90	2.8E-10	1.1E-09			
Parco Artemide	Total Trihalomethanes	10	100	0.0010492	0.00376			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	1,2,4-Trimethylbenzene	10	10	0.000137	0.000137	0.015	0.009133333	
Parco Artemide	2-Methylnaphthalene	10	10	0.000352	0.000352			
Parco Artemide	Acetone	10	30	0.00104	0.00137	64	2.14063E-05	
Parco Artemide	Aluminum	10	30	0.00272	0.0142			
Parco Artemide	Aniline	10	20	0.0018	0.00248			
Parco Artemide	Antimony	10	90	0.000155	0.001557			
Parco Artemide	Arsenic	10	100	0.00193	0.00672			
Parco Artemide	Barium	10	100	0.011	0.0264			
Parco Artemide	Bromodichloromethane	10	90	0.000144	0.000299			
Parco Artemide	Bromoform	10	100	0.00051	0.0028			
Parco Artemide	Butyl benzyl phthalate	10	20	0.000103	0.000106			
Parco Artemide	Cadmium (Water)	10	90	0.000404	0.000541			
Parco Artemide	Chloride	10	100	7.59	43.7			
Parco Artemide	Chlorine (as Cl2)	15	100		0.08			
Parco Artemide	Chloroform	10	90	0.0000962	0.000151	0.2	0.000755	
Parco Artemide	Chloromethane	10	40	0.000215	0.000279	0.19	0.001468421	
Parco Artemide	Chromium	10	80	0.000201	0.000779			
Parco Artemide	Cobalt	10	100	0.0000922	0.00426			
Parco Artemide	Copper	10	100	0.0783	0.416			
Parco Artemide	Dibromochloromethane	10	100	0.000241	0.000652			
Parco Artemide	Dissolved Oxygen	15	100		822			
Parco Artemide	Fecal Streptococcus	15	100					
Parco Artemide	Fluoride	10	10	0.591	0.591			
Parco Artemide	Heterotrophic plate count	15	100	2	6350			
Parco Artemide	Iron	10	100	0.00851	3.93			
Parco Artemide	Lead	10	100	0.00229	0.0284			
Parco Artemide	Manganese (nonfood)	10	100	0.00338	0.189			
Parco Artemide	Mercury	10	40	0.000026	0.000053	0.00063	0.084126984	
Parco Artemide	Naphthalene	10	10	0.00673	0.00673	0.0063	1.068253968	10
Parco Artemide	n-Butylbenzene	10	10	0.000176	0.000176			
Parco Artemide	Nickel	10	100	0.0402	8.33			
Parco Artemide	Nitrate (measured as NO3-)	10	100	2.43	10.5			
Parco Artemide	Oxidation Reduction Potential	15	100	140	590			
Parco Artemide	Ph	15	100	7.22	7.74			
Parco Artemide	Salinity	15	100					
Parco Artemide	Silver	10	10	0.000164	0.000164			
Parco Artemide	Specific Conductance	15	100	0.6	0.88			
Parco Artemide	Sulfate	10	100	5.92	15.7			
Parco Artemide	Temperature	15	100	24.4	28.6			
Parco Artemide	Tin	10	50	0.000185	0.000829			
Parco Artemide	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.82E-11	3.4E-10			
Parco Artemide	TOTAL HPCDD	10	100	1.2E-09	2.8E-09			
Parco Artemide	TOTAL HPCDF	10	100	1.6E-09	4.3E-09			
Parco Artemide	TOTAL HXCDD	10	90	4.3E-10	1.7E-09			
Parco Artemide	TOTAL HXCDF	10	40	6.6E-10	9.85E-10			
Parco Artemide	TOTAL PECDD	10	40	3.4E-10	4.7E-10			
Parco Artemide	TOTAL PECDF	10	90	4.6E-10	1.1E-09			
Parco Artemide	TOTAL TCDD	10	30	9.9E-10	3.5E-09			
Parco Artemide	TOTAL TCDF	10	90	2.8E-10	1.1E-09			
Parco Artemide	Total Trihalomethanes	10	100	0.0010492	0.00376			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	1,2,4-Trimethylbenzene	10	10	0.000137	0.000137			
Parco Artemide	2-Methylnaphthalene	10	10	0.000352	0.000352			
Parco Artemide	Acetone	10	30	0.00104	0.00137			
Parco Artemide	Aluminum	10	30	0.00272	0.0142			
Parco Artemide	Aniline	10	20	0.0018	0.00248			
Parco Artemide	Antimony	10	90	0.000155	0.001557	0.006	0.2595	
Parco Artemide	Arsenic	10	100	0.00193	0.00672	0.01	0.672	
Parco Artemide	Barium	10	100	0.011	0.0264	2	0.0132	
Parco Artemide	Bromodichloromethane	10	90	0.000144	0.000299			
Parco Artemide	Bromoform	10	100	0.00051	0.0028			
Parco Artemide	Butyl benzyl phthalate	10	20	0.000103	0.000106			
Parco Artemide	Cadmium (Water)	10	90	0.000404	0.000541	0.005	0.1082	
Parco Artemide	Chloride	10	100	7.59	43.7			
Parco Artemide	Chlorine (as Cl2)	15	100		0.08	4.01	0.019950125	
Parco Artemide	Chloroform	10	90	0.0000962	0.000151			
Parco Artemide	Chloromethane	10	40	0.000215	0.000279			
Parco Artemide	Chromium	10	80	0.000201	0.000779	0.1	0.00779	
Parco Artemide	Cobalt	10	100	0.0000922	0.00426			
Parco Artemide	Copper	10	100	0.0783	0.416			
Parco Artemide	Dibromochloromethane	10	100	0.000241	0.000652			
Parco Artemide	Dissolved Oxygen	15	100		822			
Parco Artemide	Fecal Steptococcus	15	100					
Parco Artemide	Fluoride	10	10	0.591	0.591	4	0.14775	
Parco Artemide	Heterotrophic plate count	15	100	2	6350			
Parco Artemide	Iron	10	100	0.00851	3.93			
Parco Artemide	Lead	10	100	0.00229	0.0284			
Parco Artemide	Manganese (nonfood)	10	100	0.00338	0.189			
Parco Artemide	Mercury	10	40	0.000026	0.000053	0.002	0.0265	
Parco Artemide	Naphthalene	10	10	0.00673	0.00673			
Parco Artemide	n-Butylbenzene	10	10	0.000176	0.000176			
Parco Artemide	Nickel	10	100	0.0402	8.33			
Parco Artemide	Nitrate (measured as NO3-)	10	100	2.43	10.5	44.3	0.237020316	
Parco Artemide	Oxidation Reduction Potential	15	100	140	590			
Parco Artemide	Ph	15	100	7.22	7.74			
Parco Artemide	Salinity	15	100					
Parco Artemide	Silver	10	10	0.000164	0.000164			
Parco Artemide	Specific Conductance	15	100	0.6	0.88			
Parco Artemide	Sulfate	10	100	5.92	15.7			
Parco Artemide	Temperature	15	100	24.4	28.6			
Parco Artemide	Tin	10	50	0.000185	0.000829			
Parco Artemide	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.82E-11	3.4E-10	0.00000003	0.011333333	
Parco Artemide	TOTAL HPCDD	10	100	1.2E-09	2.8E-09			
Parco Artemide	TOTAL HPCDF	10	100	1.6E-09	4.3E-09			
Parco Artemide	TOTAL HXCDD	10	90	4.3E-10	1.7E-09			
Parco Artemide	TOTAL HXCDF	10	40	6.6E-10	9.85E-10			
Parco Artemide	TOTAL PECDD	10	40	3.4E-10	4.7E-10			
Parco Artemide	TOTAL PECDF	10	90	4.6E-10	1.1E-09			
Parco Artemide	TOTAL TCDD	10	30	9.9E-10	3.5E-09			
Parco Artemide	TOTAL TCDF	10	90	2.8E-10	1.1E-09			
Parco Artemide	Total Trihalomethanes	10	100	0.0010492	0.00376	0.0807	0.046592317	

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	Turbidity	9	100	2	42			
Parco Artemide	Uranium	10	100	0.000452	0.000971			
Parco Artemide	Zinc	10	100	0.15	6.45			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	Turbidity	9	100	2	42			
Parco Artemide	Uranium	10	100	0.000452	0.000971	0.11	0.008827273	
Parco Artemide	Zinc	10	100	0.15	6.45	11	0.586363636	

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	Turbidity	9	100	2	42			
Parco Artemide	Uranium	10	100	0.000452	0.000971			
Parco Artemide	Zinc	10	100	0.15	6.45			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	Turbidity	9	100	2	42			
Parco Artemide	Uranium	10	100	0.000452	0.000971			
Parco Artemide	Zinc	10	100	0.15	6.45			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Artemide	Turbidity	9	100	2	42			
Parco Artemide	Uranium	10	100	0.000452	0.000971	0.03	0.032366667	
Parco Artemide	Zinc	10	100	0.15	6.45			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	1,2,3-Trichlorobenzene	10	10	0.00027	0.00027			
Parco Eva	1,2,4-trichlorobenzene	10	10	0.000223	0.000223	0.019	0.011736842	
Parco Eva	Acetone	10	10	0.00167	0.00167			
Parco Eva	Aluminum	10	10	0.0068	0.0068			
Parco Eva	Antimony	10	50	0.00016	0.00283			
Parco Eva	Arsenic	10	100	0.0033	0.0043	0.000045	95.55555556	100
Parco Eva	Barium	10	100	0.0147	0.022			
Parco Eva	Bromodichloromethane	10	30	0.000249	0.000292	0.0011	0.265454545	
Parco Eva	Bromoform	10	100	0.00144	0.00232	0.0085	0.272941176	
Parco Eva	Cadmium (Water)	10	40	0.0000848	0.00105			
Parco Eva	Chloride	10	100	27.1	34.8			
Parco Eva	Chlorine (as Cl2)	10	100		0.12			
Parco Eva	Chromium	10	100	0.000492	0.000994			
Parco Eva	Cobalt	10	100	0.0000939	0.000494			
Parco Eva	Copper	10	100	0.031	0.442			
Parco Eva	Dibromochloromethane	10	90	0.000203	0.000501	0.0008	0.62625	
Parco Eva	Dissolved Oxygen	10	100	6.89	8.78			
Parco Eva	Fecal Streptococcus	10	100					
Parco Eva	Fluoride	10	80	0.206	0.3			
Parco Eva	Heterotrophic plate count	10	100		142			
Parco Eva	Iron	10	90	0.00472	0.0358			
Parco Eva	Lead	10	100	0.000697	0.0126			
Parco Eva	Manganese (nonfood)	10	100	0.000273	0.0308			
Parco Eva	Mercury	10	50	0.000025	0.000084			
Parco Eva	Nickel	10	100	0.000961	0.851			
Parco Eva	Nitrate (measured as NO3-)	10	100	7.15	8.17			
Parco Eva	Oxidation Reduction Potential	10	100	551	624			
Parco Eva	Ph	10	100	6.75	7.32			
Parco Eva	Salinity	10	100					
Parco Eva	Selenium	10	90	0.000234	0.000868			
Parco Eva	Silver	10	20	0.000288	0.000617			
Parco Eva	Specific Conductance	10	100	0.095	1			
Parco Eva	Sulfate	10	100	10	12.3			
Parco Eva	Temperature	10	100	22.32	29.5			
Parco Eva	Thallium	10	10	0.00164	0.00164			
Parco Eva	Tin	10	50	0.000129	0.000199			
Parco Eva	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.6E-12	2.1145E-09	5.2E-10	4.066346154	20
Parco Eva	TOTAL HPCDD	10	100	1.1E-09	3.9E-09			
Parco Eva	TOTAL HPCDF	10	100	8.7E-10	9.4E-09			
Parco Eva	TOTAL HXCDD	10	40	1.4E-09	2.7E-09			
Parco Eva	TOTAL HXCDF	10	30	1.7E-09	5.4E-09			
Parco Eva	TOTAL PECDF	10	40	0.000000001	2.5E-09			
Parco Eva	TOTAL TCDD	10	10	8.8E-10	8.8E-10			
Parco Eva	TOTAL TCDF	10	60	6.8E-10	2.5E-09			
Parco Eva	Total Trihalomethanes	10	100	0.00144	0.00302			
Parco Eva	Turbidity	4	100	1	3			
Parco Eva	Uranium	10	100	0.00128	0.00167			
Parco Eva	Vanadium	10	100	0.00174	0.00425			
Parco Eva	Zinc	10	100	0.0627	2.77			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	1,2,3-Trichlorobenzene	10	10	0.00027	0.00027			
Parco Eva	1,2,4-trichlorobenzene	10	10	0.000223	0.000223	0.37	0.000602703	
Parco Eva	Acetone	10	10	0.00167	0.00167	22	7.59091E-05	
Parco Eva	Aluminum	10	10	0.0068	0.0068	37	0.000183784	
Parco Eva	Antimony	10	50	0.00016	0.00283	0.015	0.188666667	
Parco Eva	Arsenic	10	100	0.0033	0.0043	0.011	0.390909091	
Parco Eva	Barium	10	100	0.0147	0.022	7.3	0.003013699	
Parco Eva	Bromodichloromethane	10	30	0.000249	0.000292	0.73	0.0004	
Parco Eva	Bromoform	10	100	0.00144	0.00232	0.73	0.003178082	
Parco Eva	Cadmium (Water)	10	40	0.0000848	0.00105	0.018	0.058333333	
Parco Eva	Chloride	10	100	27.1	34.8			
Parco Eva	Chlorine (as Cl2)	10	100		0.12			
Parco Eva	Chromium	10	100	0.000492	0.000994			
Parco Eva	Cobalt	10	100	0.0000939	0.000494			
Parco Eva	Copper	10	100	0.031	0.442	1.5	0.294666667	
Parco Eva	Dibromochloromethane	10	90	0.000203	0.000501	0.73	0.000686301	
Parco Eva	Dissolved Oxygen	10	100	6.89	8.78			
Parco Eva	Fecal Streptococcus	10	100					
Parco Eva	Fluoride	10	80	0.206	0.3			
Parco Eva	Heterotrophic plate count	10	100		142			
Parco Eva	Iron	10	90	0.00472	0.0358	26	0.001376923	
Parco Eva	Lead	10	100	0.000697	0.0126	0.02	0.63	
Parco Eva	Manganese (nonfood)	10	100	0.000273	0.0308	0.88	0.035	
Parco Eva	Mercury	10	50	0.000025	0.000084	0.00063	0.133333333	
Parco Eva	Nickel	10	100	0.000961	0.851	0.73	1.165753425	10
Parco Eva	Nitrate (measured as NO3-)	10	100	7.15	8.17	255.2	0.032014107	
Parco Eva	Oxidation Reduction Potential	10	100	551	624			
Parco Eva	Ph	10	100	6.75	7.32			
Parco Eva	Salinity	10	100					
Parco Eva	Selenium	10	90	0.000234	0.000868	0.18	0.004822222	
Parco Eva	Silver	10	20	0.000288	0.000617	0.18	0.003427778	
Parco Eva	Specific Conductance	10	100	0.095	1			
Parco Eva	Sulfate	10	100	10	12.3			
Parco Eva	Temperature	10	100	22.32	29.5			
Parco Eva	Thallium	10	10	0.00164	0.00164	0.0024	0.683333333	
Parco Eva	Tin	10	50	0.000129	0.000199	22	9.04545E-06	
Parco Eva	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.6E-12	2.1145E-09	0.000000037	0.057148649	
Parco Eva	TOTAL HPCDD	10	100	1.1E-09	3.9E-09			
Parco Eva	TOTAL HPCDF	10	100	8.7E-10	9.4E-09			
Parco Eva	TOTAL HXCDD	10	40	1.4E-09	2.7E-09			
Parco Eva	TOTAL HXCDF	10	30	1.7E-09	5.4E-09			
Parco Eva	TOTAL PECDF	10	40	0.000000001	2.5E-09			
Parco Eva	TOTAL TCDD	10	10	8.8E-10	8.8E-10			
Parco Eva	TOTAL TCDF	10	60	6.8E-10	2.5E-09			
Parco Eva	Total Trihalomethanes	10	100	0.00144	0.00302			
Parco Eva	Turbidity	4	100	1	3			
Parco Eva	Uranium	10	100	0.00128	0.00167	0.11	0.015181818	
Parco Eva	Vanadium	10	100	0.00174	0.00425	0.26	0.016346154	
Parco Eva	Zinc	10	100	0.0627	2.77	11	0.251818182	

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	1,2,3-Trichlorobenzene	10	10	0.00027	0.00027			
Parco Eva	1,2,4-trichlorobenzene	10	10	0.000223	0.000223			
Parco Eva	Acetone	10	10	0.00167	0.00167			
Parco Eva	Aluminum	10	10	0.0068	0.0068			
Parco Eva	Antimony	10	50	0.00016	0.00283			
Parco Eva	Arsenic	10	100	0.0033	0.0043			
Parco Eva	Barium	10	100	0.0147	0.022			
Parco Eva	Bromodichloromethane	10	30	0.000249	0.000292			
Parco Eva	Bromoform	10	100	0.00144	0.00232			
Parco Eva	Cadmium (Water)	10	40	0.0000848	0.00105			
Parco Eva	Chloride	10	100	27.1	34.8			
Parco Eva	Chlorine (as Cl2)	10	100		0.12			
Parco Eva	Chromium	10	100	0.000492	0.000994			
Parco Eva	Cobalt	10	100	0.0000939	0.000494			
Parco Eva	Copper	10	100	0.031	0.442			
Parco Eva	Dibromochloromethane	10	90	0.000203	0.000501			
Parco Eva	Dissolved Oxygen	10	100	6.89	8.78			
Parco Eva	Fecal Streptococcus	10	100					
Parco Eva	Fluoride	10	80	0.206	0.3			
Parco Eva	Heterotrophic plate count	10	100		142			
Parco Eva	Iron	10	90	0.00472	0.0358			
Parco Eva	Lead	10	100	0.000697	0.0126			
Parco Eva	Manganese (nonfood)	10	100	0.000273	0.0308			
Parco Eva	Mercury	10	50	0.000025	0.000084			
Parco Eva	Nickel	10	100	0.000961	0.851			
Parco Eva	Nitrate (measured as NO3-)	10	100	7.15	8.17			
Parco Eva	Oxidation Reduction Potential	10	100	551	624			
Parco Eva	Ph	10	100	6.75	7.32			
Parco Eva	Salinity	10	100					
Parco Eva	Selenium	10	90	0.000234	0.000868			
Parco Eva	Silver	10	20	0.000288	0.000617			
Parco Eva	Specific Conductance	10	100	0.095	1			
Parco Eva	Sulfate	10	100	10	12.3			
Parco Eva	Temperature	10	100	22.32	29.5			
Parco Eva	Thallium	10	10	0.00164	0.00164			
Parco Eva	Tin	10	50	0.000129	0.000199			
Parco Eva	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.6E-12	2.1145E-09			
Parco Eva	TOTAL HPCDD	10	100	1.1E-09	3.9E-09			
Parco Eva	TOTAL HPCDF	10	100	8.7E-10	9.4E-09			
Parco Eva	TOTAL HXCDD	10	40	1.4E-09	2.7E-09			
Parco Eva	TOTAL HXCDF	10	30	1.7E-09	5.4E-09			
Parco Eva	TOTAL PECDF	10	40	0.000000001	2.5E-09			
Parco Eva	TOTAL TCDD	10	10	8.8E-10	8.8E-10			
Parco Eva	TOTAL TCDF	10	60	6.8E-10	2.5E-09			
Parco Eva	Total Trihalomethanes	10	100	0.00144	0.00302			
Parco Eva	Turbidity	4	100	1	3			
Parco Eva	Uranium	10	100	0.00128	0.00167			
Parco Eva	Vanadium	10	100	0.00174	0.00425			
Parco Eva	Zinc	10	100	0.0627	2.77			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	1,2,3-Trichlorobenzene	10	10	0.00027	0.00027			
Parco Eva	1,2,4-trichlorobenzene	10	10	0.000223	0.000223			
Parco Eva	Acetone	10	10	0.00167	0.00167	64	2.60938E-05	
Parco Eva	Aluminum	10	10	0.0068	0.0068			
Parco Eva	Antimony	10	50	0.00016	0.00283			
Parco Eva	Arsenic	10	100	0.0033	0.0043			
Parco Eva	Barium	10	100	0.0147	0.022			
Parco Eva	Bromodichloromethane	10	30	0.000249	0.000292			
Parco Eva	Bromoform	10	100	0.00144	0.00232			
Parco Eva	Cadmium (Water)	10	40	0.000848	0.00105			
Parco Eva	Chloride	10	100	27.1	34.8			
Parco Eva	Chlorine (as Cl2)	10	100		0.12			
Parco Eva	Chromium	10	100	0.000492	0.000994			
Parco Eva	Cobalt	10	100	0.000939	0.000494			
Parco Eva	Copper	10	100	0.031	0.442			
Parco Eva	Dibromochloromethane	10	90	0.000203	0.000501			
Parco Eva	Dissolved Oxygen	10	100	6.89	8.78			
Parco Eva	Fecal Streptococcus	10	100					
Parco Eva	Fluoride	10	80	0.206	0.3			
Parco Eva	Heterotrophic plate count	10	100		142			
Parco Eva	Iron	10	90	0.00472	0.0358			
Parco Eva	Lead	10	100	0.000697	0.0126			
Parco Eva	Manganese (nonfood)	10	100	0.000273	0.0308			
Parco Eva	Mercury	10	50	0.000025	0.000084	0.00063	0.133333333	
Parco Eva	Nickel	10	100	0.000961	0.851			
Parco Eva	Nitrate (measured as NO3-)	10	100	7.15	8.17			
Parco Eva	Oxidation Reduction Potential	10	100	551	624			
Parco Eva	Ph	10	100	6.75	7.32			
Parco Eva	Salinity	10	100					
Parco Eva	Selenium	10	90	0.000234	0.000868			
Parco Eva	Silver	10	20	0.000288	0.000617			
Parco Eva	Specific Conductance	10	100	0.095	1			
Parco Eva	Sulfate	10	100	10	12.3			
Parco Eva	Temperature	10	100	22.32	29.5			
Parco Eva	Thallium	10	10	0.00164	0.00164			
Parco Eva	Tin	10	50	0.000129	0.000199			
Parco Eva	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.6E-12	2.1145E-09			
Parco Eva	TOTAL HPCDD	10	100	1.1E-09	3.9E-09			
Parco Eva	TOTAL HPCDF	10	100	8.7E-10	9.4E-09			
Parco Eva	TOTAL HXCDD	10	40	1.4E-09	2.7E-09			
Parco Eva	TOTAL HXCDF	10	30	1.7E-09	5.4E-09			
Parco Eva	TOTAL PECDF	10	40	0.000000001	2.5E-09			
Parco Eva	TOTAL TCDD	10	10	8.8E-10	8.8E-10			
Parco Eva	TOTAL TCDF	10	60	6.8E-10	2.5E-09			
Parco Eva	Total Trihalomethanes	10	100	0.00144	0.00302			
Parco Eva	Turbidity	4	100	1	3			
Parco Eva	Uranium	10	100	0.00128	0.00167			
Parco Eva	Vanadium	10	100	0.00174	0.00425			
Parco Eva	Zinc	10	100	0.0627	2.77			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Eva	1,2,3-Trichlorobenzene	10	10	0.00027	0.00027			
Parco Eva	1,2,4-trichlorobenzene	10	10	0.000223	0.000223	0.07	0.003185714	
Parco Eva	Acetone	10	10	0.00167	0.00167			
Parco Eva	Aluminum	10	10	0.0068	0.0068			
Parco Eva	Antimony	10	50	0.00016	0.00283	0.006	0.471666667	
Parco Eva	Arsenic	10	100	0.0033	0.0043	0.01	0.43	
Parco Eva	Barium	10	100	0.0147	0.022	2	0.011	
Parco Eva	Bromodichloromethane	10	30	0.000249	0.000292			
Parco Eva	Bromoform	10	100	0.00144	0.00232			
Parco Eva	Cadmium (Water)	10	40	0.0000848	0.00105	0.005	0.21	
Parco Eva	Chloride	10	100	27.1	34.8			
Parco Eva	Chlorine (as Cl2)	10	100	0.12	0.12	4.01	0.029925187	
Parco Eva	Chromium	10	100	0.000492	0.000994	0.1	0.00994	
Parco Eva	Cobalt	10	100	0.0000939	0.000494			
Parco Eva	Copper	10	100	0.031	0.442			
Parco Eva	Dibromochloromethane	10	90	0.000203	0.000501			
Parco Eva	Dissolved Oxygen	10	100	6.89	8.78			
Parco Eva	Fecal Streptococcus	10	100					
Parco Eva	Fluoride	10	80	0.206	0.3	4	0.075	
Parco Eva	Heterotrophic plate count	10	100		142			
Parco Eva	Iron	10	90	0.00472	0.0358			
Parco Eva	Lead	10	100	0.000697	0.0126			
Parco Eva	Manganese (nonfood)	10	100	0.000273	0.0308			
Parco Eva	Mercury	10	50	0.000025	0.000084	0.002	0.042	
Parco Eva	Nickel	10	100	0.000961	0.851			
Parco Eva	Nitrate (measured as NO3-)	10	100	7.15	8.17	44.3	0.184424379	
Parco Eva	Oxidation Reduction Potential	10	100	551	624			
Parco Eva	Ph	10	100	6.75	7.32			
Parco Eva	Salinity	10	100					
Parco Eva	Selenium	10	90	0.000234	0.000868	0.05	0.01736	
Parco Eva	Silver	10	20	0.000288	0.000617			
Parco Eva	Specific Conductance	10	100	0.095	1			
Parco Eva	Sulfate	10	100	10	12.3			
Parco Eva	Temperature	10	100	22.32	29.5			
Parco Eva	Thallium	10	10	0.00164	0.00164	0.002	0.82	
Parco Eva	Tin	10	50	0.000129	0.000199			
Parco Eva	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	90	2.6E-12	2.1145E-09	0.00000003	0.070483333	
Parco Eva	TOTAL HPCDD	10	100	1.1E-09	3.9E-09			
Parco Eva	TOTAL HPCDF	10	100	8.7E-10	9.4E-09			
Parco Eva	TOTAL HXCDD	10	40	1.4E-09	2.7E-09			
Parco Eva	TOTAL HXCDF	10	30	1.7E-09	5.4E-09			
Parco Eva	TOTAL PECDF	10	40	0.000000001	2.5E-09			
Parco Eva	TOTAL TCDD	10	10	8.8E-10	8.8E-10			
Parco Eva	TOTAL TCDF	10	60	6.8E-10	2.5E-09			
Parco Eva	Total Trihalomethanes	10	100	0.00144	0.00302	0.0807	0.037422553	
Parco Eva	Turbidity	4	100	1	3			
Parco Eva	Uranium	10	100	0.00128	0.00167	0.03	0.055666667	
Parco Eva	Vanadium	10	100	0.00174	0.00425			
Parco Eva	Zinc	10	100	0.0627	2.77			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Aluminum	10	30	0.00252	0.0118			
Parco Le Ginestra	Antimony	10	10	0.000362	0.000362			
Parco Le Ginestra	Arsenic	10	100	0.00328	0.00532	0.000045	118.2222222	100
Parco Le Ginestra	Barium	10	100	0.0146	0.0175			
Parco Le Ginestra	Beryllium	10	30	0.0000629	0.0000836			
Parco Le Ginestra	Bromodichloromethane	10	100	0.000186	0.0005805	0.0011	0.527727273	
Parco Le Ginestra	Bromoform	10	100	0.0004695	0.000982	0.0085	0.115529412	
Parco Le Ginestra	Butylbenzylphthalate	10	10	0.000143	0.000143			
Parco Le Ginestra	Cadmium (Water)	10	40	0.000048	0.000142			
Parco Le Ginestra	Chloride	10	100	9.325	12.7			
Parco Le Ginestra	Chlorine (as Cl2)	13	100	0.02	0.4			
Parco Le Ginestra	Chloroform	10	100	0.000131	0.00037	0.00019	1.947368421	80
Parco Le Ginestra	Chromium	10	100	0.000579	0.000969			
Parco Le Ginestra	Cobalt	10	100	0.0000722	0.000162			
Parco Le Ginestra	Copper	10	100	0.0206	0.433			
Parco Le Ginestra	Dibromochloromethane	10	100	0.000372	0.00101	0.0008	1.2625	30
Parco Le Ginestra	Dissolved Oxygen	13	100	7.61	9.6			
Parco Le Ginestra	Fecal Steptococcus	13	100					
Parco Le Ginestra	Fluoride	10	10	0.204	0.204			
Parco Le Ginestra	Heterotrophic plate count	13	100		1230			
Parco Le Ginestra	Iron	10	100	0.009595	0.123			
Parco Le Ginestra	Lead	10	100	0.00083	0.00619			
Parco Le Ginestra	m,p-Xylenes	10	10	0.0000981	0.0000981			
Parco Le Ginestra	Manganese (nonfood)	10	100	0.000314	0.00403			
Parco Le Ginestra	Mercury	10	50	0.000015	0.000025			
Parco Le Ginestra	Methyl tert-Butyl Ether	10	10	0.000123	0.000123	0.012	0.01025	
Parco Le Ginestra	Nickel	10	100	0.00196	0.141			
Parco Le Ginestra	Nitrate (measured as NO3-)	10	100	3.25	3.9			
Parco Le Ginestra	Oxidation Reduction Potential	13	100	294	324			
Parco Le Ginestra	Ph	13	100	6.97	7.46			
Parco Le Ginestra	Salinity	13	100		0.1			
Parco Le Ginestra	Selenium	10	90	0.000209	0.000318			
Parco Le Ginestra	Specific Conductance	13	100	0.82	1.15			
Parco Le Ginestra	Sulfate	10	100	8.28	10.2			
Parco Le Ginestra	Temperature	13	100	23.79	31.12			
Parco Le Ginestra	Tetrachloroethene	10	10	0.00251	0.00251	0.00011	22.81818182	10
Parco Le Ginestra	Tin	10	20	0.000108	0.000123			
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C	13	7.69	1	1			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	50	3.4E-11	8.4384E-10	5.2E-10	1.622769231	20
Parco Le Ginestra	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Parco Le Ginestra	TOTAL HPCDF	10	100	1.2E-09	7.3E-09			
Parco Le Ginestra	TOTAL HXCDD	10	30	7.1E-10	9.3E-10			
Parco Le Ginestra	TOTAL HXCDF	10	30	1.4E-09	2.1E-09			
Parco Le Ginestra	TOTAL PECDD	10	20	4.2E-10	4.4E-10			
Parco Le Ginestra	TOTAL PECDF	10	100	4.1E-10	0.00000001			
Parco Le Ginestra	TOTAL TCDD	10	40	5.9E-10	1.1E-09			
Parco Le Ginestra	TOTAL TCDF	10	80	5.3E-10	1.6E-09			
Parco Le Ginestra	Total Trihalomethanes	10	100	0.001556	0.00271			
Parco Le Ginestra	Turbidity	2	100	4	17			
Parco Le Ginestra	Uranium	10	100	0.000829	0.00111			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Aluminum	10	30	0.00252	0.0118	37		0.000318919
Parco Le Ginestra	Antimony	10	10	0.000362	0.000362	0.015		0.024133333
Parco Le Ginestra	Arsenic	10	100	0.00328	0.00532	0.011		0.483636364
Parco Le Ginestra	Barium	10	100	0.0146	0.0175	7.3		0.00239726
Parco Le Ginestra	Beryllium	10	30	0.0000629	0.0000836	0.073		0.001145205
Parco Le Ginestra	Bromodichloromethane	10	100	0.000186	0.0005805	0.73		0.000795205
Parco Le Ginestra	Bromoform	10	100	0.0004695	0.000982	0.73		0.001345205
Parco Le Ginestra	Butylbenzylphthalate	10	10	0.000143	0.000143	7.3		1.9589E-05
Parco Le Ginestra	Cadmium (Water)	10	40	0.000048	0.000142	0.018		0.007888889
Parco Le Ginestra	Chloride	10	100	9.325	12.7			
Parco Le Ginestra	Chlorine (as Cl2)	13	100	0.02	0.4			
Parco Le Ginestra	Chloroform	10	100	0.000131	0.00037	0.13		0.002846154
Parco Le Ginestra	Chromium	10	100	0.000579	0.000969			
Parco Le Ginestra	Cobalt	10	100	0.0000722	0.000162			
Parco Le Ginestra	Copper	10	100	0.0206	0.433			0.288666667
Parco Le Ginestra	Dibromochloromethane	10	100	0.000372	0.00101	0.73		0.001383562
Parco Le Ginestra	Dissolved Oxygen	13	100	7.61	9.6			
Parco Le Ginestra	Fecal Steptococcus	13	100					
Parco Le Ginestra	Fluoride	10	10	0.204	0.204			
Parco Le Ginestra	Heterotrophic plate count	13	100		1230			
Parco Le Ginestra	Iron	10	100	0.009595	0.123	26		0.004730769
Parco Le Ginestra	Lead	10	100	0.00083	0.00619	0.02		0.3095
Parco Le Ginestra	m,p-Xylenes	10	10	0.0000981	0.0000981	0.2		0.0004905
Parco Le Ginestra	Manganese (nonfood)	10	100	0.000314	0.00403	0.88		0.004579545
Parco Le Ginestra	Mercury	10	50	0.000015	0.000025	0.00063		0.03968254
Parco Le Ginestra	Methyl tert-Butyl Ether	10	10	0.000123	0.000123	6.3		1.95238E-05
Parco Le Ginestra	Nickel	10	100	0.00196	0.141	0.73		0.193150685
Parco Le Ginestra	Nitrate (measured as NO3-)	10	100	3.25	3.9	255.2		0.015282132
Parco Le Ginestra	Oxidation Reduction Potential	13	100	294	324			
Parco Le Ginestra	Ph	13	100	6.97	7.46			
Parco Le Ginestra	Salinity	13	100		0.1			
Parco Le Ginestra	Selenium	10	90	0.000209	0.000318	0.18		0.001766667
Parco Le Ginestra	Specific Conductance	13	100	0.82	1.15			
Parco Le Ginestra	Sulfate	10	100	8.28	10.2			
Parco Le Ginestra	Temperature	13	100	23.79	31.12			
Parco Le Ginestra	Tetrachloroethene	10	10	0.00251	0.00251	0.22		0.011409091
Parco Le Ginestra	Tin	10	20	0.000108	0.000123	22		5.59091E-06
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C	13	7.69	1	1			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	50	3.4E-11	8.4384E-10	0.000000037		0.022806486
Parco Le Ginestra	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Parco Le Ginestra	TOTAL HPCDF	10	100	1.2E-09	7.3E-09			
Parco Le Ginestra	TOTAL HXCDD	10	30	7.1E-10	9.3E-10			
Parco Le Ginestra	TOTAL HXCDF	10	30	1.4E-09	2.1E-09			
Parco Le Ginestra	TOTAL PECDD	10	20	4.2E-10	4.4E-10			
Parco Le Ginestra	TOTAL PECDF	10	100	4.1E-10	0.000000001			
Parco Le Ginestra	TOTAL TCDD	10	40	5.9E-10	1.1E-09			
Parco Le Ginestra	TOTAL TCDF	10	80	5.3E-10	1.6E-09			
Parco Le Ginestra	Total Trihalomethanes	10	100	0.001556	0.00271			
Parco Le Ginestra	Turbidity	2	100	4	17			
Parco Le Ginestra	Uranium	10	100	0.000829	0.00111	0.11		0.010090909

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Aluminum	10	30	0.00252	0.0118			
Parco Le Ginestra	Antimony	10	10	0.000362	0.000362			
Parco Le Ginestra	Arsenic	10	100	0.00328	0.00532			
Parco Le Ginestra	Barium	10	100	0.0146	0.0175			
Parco Le Ginestra	Beryllium	10	30	0.0000629	0.0000836			
Parco Le Ginestra	Bromodichloromethane	10	100	0.000186	0.0005805			
Parco Le Ginestra	Bromoform	10	100	0.0004695	0.000982			
Parco Le Ginestra	Butylbenzylphthalate	10	10	0.000143	0.000143			
Parco Le Ginestra	Cadmium (Water)	10	40	0.000048	0.000142			
Parco Le Ginestra	Chloride	10	100	9.325	12.7			
Parco Le Ginestra	Chlorine (as Cl2)	13	100	0.02	0.4			
Parco Le Ginestra	Chloroform	10	100	0.000131	0.00037	0.00021	1.761904762	80
Parco Le Ginestra	Chromium	10	100	0.000579	0.000969			
Parco Le Ginestra	Cobalt	10	100	0.0000722	0.000162			
Parco Le Ginestra	Copper	10	100	0.0206	0.433			
Parco Le Ginestra	Dibromochloromethane	10	100	0.000372	0.00101			
Parco Le Ginestra	Dissolved Oxygen	13	100	7.61	9.6			
Parco Le Ginestra	Fecal Streptococcus	13	100					
Parco Le Ginestra	Fluoride	10	10	0.204	0.204			
Parco Le Ginestra	Heterotrophic plate count	13	100		1230			
Parco Le Ginestra	Iron	10	100	0.009595	0.123			
Parco Le Ginestra	Lead	10	100	0.00083	0.00619			
Parco Le Ginestra	m,p-Xylenes	10	10	0.0000981	0.0000981			
Parco Le Ginestra	Manganese (nonfood)	10	100	0.000314	0.00403			
Parco Le Ginestra	Mercury	10	50	0.000015	0.000025			
Parco Le Ginestra	Methyl tert-Butyl Ether	10	10	0.000123	0.000123	0.019	0.006473684	
Parco Le Ginestra	Nickel	10	100	0.00196	0.141			
Parco Le Ginestra	Nitrate (measured as NO3-)	10	100	3.25	3.9			
Parco Le Ginestra	Oxidation Reduction Potential	13	100	294	324			
Parco Le Ginestra	Ph	13	100	6.97	7.46			
Parco Le Ginestra	Salinity	13	100		0.1			
Parco Le Ginestra	Selenium	10	90	0.000209	0.000318			
Parco Le Ginestra	Specific Conductance	13	100	0.82	1.15			
Parco Le Ginestra	Sulfate	10	100	8.28	10.2			
Parco Le Ginestra	Temperature	13	100	23.79	31.12			
Parco Le Ginestra	Tetrachloroethene	10	10	0.00251	0.00251	0.00082	3.06097561	10
Parco Le Ginestra	Tin	10	20	0.000108	0.000123			
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C	13	7.69	1	1			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	50	3.4E-11	8.4384E-10			
Parco Le Ginestra	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Parco Le Ginestra	TOTAL HPCDF	10	100	1.2E-09	7.3E-09			
Parco Le Ginestra	TOTAL HXCDD	10	30	7.1E-10	9.3E-10			
Parco Le Ginestra	TOTAL HXCDF	10	30	1.4E-09	2.1E-09			
Parco Le Ginestra	TOTAL PECDD	10	20	4.2E-10	4.4E-10			
Parco Le Ginestra	TOTAL PECDF	10	100	4.1E-10	0.000000001			
Parco Le Ginestra	TOTAL TCDD	10	40	5.9E-10	1.1E-09			
Parco Le Ginestra	TOTAL TCDF	10	80	5.3E-10	1.6E-09			
Parco Le Ginestra	Total Trihalomethanes	10	100	0.001556	0.00271			
Parco Le Ginestra	Turbidity	2	100	4	17			
Parco Le Ginestra	Uranium	10	100	0.000829	0.00111			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Aluminum	10	30	0.00252	0.0118			
Parco Le Ginestra	Antimony	10	10	0.000362	0.000362			
Parco Le Ginestra	Arsenic	10	100	0.00328	0.00532			
Parco Le Ginestra	Barium	10	100	0.0146	0.0175			
Parco Le Ginestra	Beryllium	10	30	0.0000629	0.0000836			
Parco Le Ginestra	Bromodichloromethane	10	100	0.000186	0.0005805			
Parco Le Ginestra	Bromoform	10	100	0.0004695	0.000982			
Parco Le Ginestra	Butylbenzylphthalate	10	10	0.000143	0.000143			
Parco Le Ginestra	Cadmium (Water)	10	40	0.000048	0.000142			
Parco Le Ginestra	Chloride	10	100	9.325	12.7			
Parco Le Ginestra	Chlorine (as Cl2)	13	100	0.02	0.4			
Parco Le Ginestra	Chloroform	10	100	0.000131	0.00037	0.2	0.00185	
Parco Le Ginestra	Chromium	10	100	0.000579	0.000969			
Parco Le Ginestra	Cobalt	10	100	0.0000722	0.000162			
Parco Le Ginestra	Copper	10	100	0.0206	0.433			
Parco Le Ginestra	Dibromochloromethane	10	100	0.000372	0.00101			
Parco Le Ginestra	Dissolved Oxygen	13	100	7.61	9.6			
Parco Le Ginestra	Fecal Streptococcus	13	100					
Parco Le Ginestra	Fluoride	10	10	0.204	0.204			
Parco Le Ginestra	Heterotrophic plate count	13	100		1230			
Parco Le Ginestra	Iron	10	100	0.009595	0.123			
Parco Le Ginestra	Lead	10	100	0.00083	0.00619			
Parco Le Ginestra	m,p-Xylenes	10	10	0.0000981	0.0000981	0.21	0.000467143	
Parco Le Ginestra	Manganese (nonfood)	10	100	0.000314	0.00403			
Parco Le Ginestra	Mercury	10	50	0.000015	0.000025	0.00063	0.03968254	
Parco Le Ginestra	Methyl tert-Butyl Ether	10	10	0.000123	0.000123	6.3	1.95238E-05	
Parco Le Ginestra	Nickel	10	100	0.00196	0.141			
Parco Le Ginestra	Nitrate (measured as NO3-)	10	100	3.25	3.9			
Parco Le Ginestra	Oxidation Reduction Potential	13	100	294	324			
Parco Le Ginestra	Ph	13	100	6.97	7.46			
Parco Le Ginestra	Salinity	13	100		0.1			
Parco Le Ginestra	Selenium	10	90	0.000209	0.000318			
Parco Le Ginestra	Specific Conductance	13	100	0.82	1.15			
Parco Le Ginestra	Sulfate	10	100	8.28	10.2			
Parco Le Ginestra	Temperature	13	100	23.79	31.12			
Parco Le Ginestra	Tetrachloroethene	10	10	0.00251	0.00251	0.57	0.004403509	
Parco Le Ginestra	Tin	10	20	0.000108	0.000123			
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C	13	7.69	1	1			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	50	3.4E-11	8.4384E-10			
Parco Le Ginestra	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Parco Le Ginestra	TOTAL HPCDF	10	100	1.2E-09	7.3E-09			
Parco Le Ginestra	TOTAL HXCDD	10	30	7.1E-10	9.3E-10			
Parco Le Ginestra	TOTAL HXCDF	10	30	1.4E-09	2.1E-09			
Parco Le Ginestra	TOTAL PECDD	10	20	4.2E-10	4.4E-10			
Parco Le Ginestra	TOTAL PECDF	10	100	4.1E-10	0.000000001			
Parco Le Ginestra	TOTAL TCDD	10	40	5.9E-10	1.1E-09			
Parco Le Ginestra	TOTAL TCDF	10	80	5.3E-10	1.6E-09			
Parco Le Ginestra	Total Trihalomethanes	10	100	0.001556	0.00271			
Parco Le Ginestra	Turbidity	2	100	4	17			
Parco Le Ginestra	Uranium	10	100	0.000829	0.00111			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Aluminum	10	30	0.00252	0.0118			
Parco Le Ginestra	Antimony	10	10	0.000362	0.000362	0.006	0.060333333	
Parco Le Ginestra	Arsenic	10	100	0.00328	0.00532	0.01	0.532	
Parco Le Ginestra	Barium	10	100	0.0146	0.0175	2	0.00875	
Parco Le Ginestra	Beryllium	10	30	0.0000629	0.0000836	0.004	0.0209	
Parco Le Ginestra	Bromodichloromethane	10	100	0.000186	0.0005805			
Parco Le Ginestra	Bromoform	10	100	0.0004695	0.000982			
Parco Le Ginestra	Butylbenzylphthalate	10	10	0.000143	0.000143			
Parco Le Ginestra	Cadmium (Water)	10	40	0.000048	0.000142	0.005	0.0284	
Parco Le Ginestra	Chloride	10	100	9.325	12.7			
Parco Le Ginestra	Chlorine (as Cl2)	13	100	0.02	0.4	4.01	0.099750623	
Parco Le Ginestra	Chloroform	10	100	0.000131	0.00037			
Parco Le Ginestra	Chromium	10	100	0.000579	0.000969	0.1	0.00969	
Parco Le Ginestra	Cobalt	10	100	0.0000722	0.000162			
Parco Le Ginestra	Copper	10	100	0.0206	0.433			
Parco Le Ginestra	Dibromochloromethane	10	100	0.000372	0.00101			
Parco Le Ginestra	Dissolved Oxygen	13	100	7.61	9.6			
Parco Le Ginestra	Fecal Staptococcus	13	100					
Parco Le Ginestra	Fluoride	10	10	0.204	0.204	4	0.051	
Parco Le Ginestra	Heterotrophic plate count	13	100		1230			
Parco Le Ginestra	Iron	10	100	0.009595	0.123			
Parco Le Ginestra	Lead	10	100	0.00083	0.00619			
Parco Le Ginestra	m,p-Xylenes	10	10	0.0000981	0.0000981			
Parco Le Ginestra	Manganese (nonfood)	10	100	0.000314	0.00403			
Parco Le Ginestra	Mercury	10	50	0.000015	0.000025	0.002	0.0125	
Parco Le Ginestra	Methyl tert-Butyl Ether	10	10	0.000123	0.000123			
Parco Le Ginestra	Nickel	10	100	0.00196	0.141			
Parco Le Ginestra	Nitrate (measured as NO3-)	10	100	3.25	3.9	44.3	0.088036117	
Parco Le Ginestra	Oxidation Reduction Potential	13	100	294	324			
Parco Le Ginestra	Ph	13	100	6.97	7.46			
Parco Le Ginestra	Salinity	13	100		0.1			
Parco Le Ginestra	Selenium	10	90	0.000209	0.000318	0.05	0.00636	
Parco Le Ginestra	Specific Conductance	13	100	0.82	1.15			
Parco Le Ginestra	Sulfate	10	100	8.28	10.2			
Parco Le Ginestra	Temperature	13	100	23.79	31.12			
Parco Le Ginestra	Tetrachloroethene	10	10	0.00251	0.00251	0.005	0.502	
Parco Le Ginestra	Tin	10	20	0.000108	0.000123			
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C	13	7.69	1	1		1.1	7.692307692
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	50	3.4E-11	8.4384E-10	0.00000003	0.028128	
Parco Le Ginestra	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Parco Le Ginestra	TOTAL HPCDF	10	100	1.2E-09	7.3E-09			
Parco Le Ginestra	TOTAL HXCDD	10	30	7.1E-10	9.3E-10			
Parco Le Ginestra	TOTAL HXCDF	10	30	1.4E-09	2.1E-09			
Parco Le Ginestra	TOTAL PECDD	10	20	4.2E-10	4.4E-10			
Parco Le Ginestra	TOTAL PECDF	10	100	4.1E-10	0.000000001			
Parco Le Ginestra	TOTAL TCDD	10	40	5.9E-10	1.1E-09			
Parco Le Ginestra	TOTAL TCDF	10	80	5.3E-10	1.6E-09			
Parco Le Ginestra	Total Trihalomethanes	10	100	0.001556	0.00271	0.0807	0.033581165	
Parco Le Ginestra	Turbidity	2	100	4	17			
Parco Le Ginestra	Uranium	10	100	0.000829	0.00111	0.03	0.037	

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Vanadium	10	70	0.0011	0.0023			
Parco Le Ginestra	Zinc	10	100	1.13	2.13			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Vanadium	10	70	0.0011	0.0023	0.26	0.008846154	
Parco Le Ginestra	Zinc	10	100	1.13	2.13	11	0.193636364	

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Vanadium	10	70	0.0011	0.0023			
Parco Le Ginestra	Zinc	10	100	1.13	2.13			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Vanadium	10	70	0.0011	0.0023			
Parco Le Ginestra	Zinc	10	100	1.13	2.13			

Table C-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and NAVFAC Leased Homes
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Vanadium	10	70	0.0011	0.0023			
Parco Le Ginestra	Zinc	10	100	1.13	2.13			

Table C-4
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and Flag Quarters
Media: Irrigation Well Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Acetone	1	100	0.00277	0.00277			
Parco Le Ginestra	Aluminum	1	100	0.00357	0.00357			
Parco Le Ginestra	Antimony	1	100	0.000226	0.000226			
Parco Le Ginestra	Arsenic	1	100	0.00511	0.00511	0.000045	113.5555556	100
Parco Le Ginestra	Barium	1	100	0.00453	0.00453			
Parco Le Ginestra	Beryllium	1	100	0.0000879	0.0000879			
Parco Le Ginestra	Bis(2-ethylhexyl)phthalate	1	100	0.027	0.027	0.0048	5.625	100
Parco Le Ginestra	Butylbenzylphthalate	1	100	0.000145	0.000145			
Parco Le Ginestra	Chloride	1	100	66.9	66.9			
Parco Le Ginestra	Chloroform	1	100	0.000148	0.000148	0.00019	0.778947368	
Parco Le Ginestra	Chromium	1	100	0.00902	0.00902			
Parco Le Ginestra	Cobalt	1	100	0.000168	0.000168			
Parco Le Ginestra	Copper	1	100	0.00401	0.00401			
Parco Le Ginestra	Fecal Coliform	1	100	144.5	144.5			
Parco Le Ginestra	Fecal Streptococcus	1	100	1781	1781			
Parco Le Ginestra	Fluoride	1	100	0.918	0.918			
Parco Le Ginestra	Heterotrophic plate count	1	100	17500	17500			
Parco Le Ginestra	Iron	1	100	0.135	0.135			
Parco Le Ginestra	Lead	1	100	0.00232	0.00232			
Parco Le Ginestra	Manganese (Water)	1	100	0.00331	0.00331			
Parco Le Ginestra	Nickel	1	100	0.0105	0.0105			
Parco Le Ginestra	Nitrate (measured as NO3-)	1	100	293	293			
Parco Le Ginestra	Selenium	1	100	0.000784	0.000784			
Parco Le Ginestra	Sulfate	1	100	136	136			
Parco Le Ginestra	Tetrachloroethene	1	100	0.00111	0.00111	0.00011	10.09090909	100
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C	1	100	200.5	200.5			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	6.8E-10	6.8E-10	5.2E-10	1.307692308	100
Parco Le Ginestra	TOTAL HPCDD	1	100	4.6E-09	4.6E-09			
Parco Le Ginestra	TOTAL HPCDF	1	100	0.00000002	0.00000002			
Parco Le Ginestra	TOTAL HXCDF	1	100	0.000000016	0.000000016			
Parco Le Ginestra	TOTAL PECDD	1	100	1.3E-09	1.3E-09			
Parco Le Ginestra	TOTAL PECDF	1	100	1.6E-09	1.6E-09			
Parco Le Ginestra	TOTAL TCDF	1	100	9E-10	9E-10			
Parco Le Ginestra	Total Trihalomethanes	1	100	0.000148	0.000148			
Parco Le Ginestra	Uranium	1	100	0.0317	0.0317			
Parco Le Ginestra	Vanadium	1	100	0.0132	0.0132			
Parco Le Ginestra	Zinc	1	100	12.4	12.4			

Table C-4
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and Flag Quarters
Media: Irrigation Well Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Acetone	1	100	0.00277	0.00277	22	0.000125909	
Parco Le Ginestra	Aluminum	1	100	0.00357	0.00357	37	9.64865E-05	
Parco Le Ginestra	Antimony	1	100	0.000226	0.000226	0.015	0.015066667	
Parco Le Ginestra	Arsenic	1	100	0.00511	0.00511	0.011	0.464545455	
Parco Le Ginestra	Barium	1	100	0.00453	0.00453	7.3	0.000620548	
Parco Le Ginestra	Beryllium	1	100	0.0000879	0.0000879	0.073	0.00120411	
Parco Le Ginestra	Bis(2-ethylhexyl)phthalate	1	100	0.027	0.027	0.73	0.036986301	
Parco Le Ginestra	Butylbenzylphthalate	1	100	0.000145	0.000145	7.3	1.9863E-05	
Parco Le Ginestra	Chloride	1	100	66.9	66.9			
Parco Le Ginestra	Chloroform	1	100	0.000148	0.000148	0.13	0.001138462	
Parco Le Ginestra	Chromium	1	100	0.00902	0.00902			
Parco Le Ginestra	Cobalt	1	100	0.000168	0.000168			
Parco Le Ginestra	Copper	1	100	0.00401	0.00401	1.5	0.002673333	
Parco Le Ginestra	Fecal Coliform	1	100	144.5	144.5			
Parco Le Ginestra	Fecal Streptococcus	1	100	1781	1781			
Parco Le Ginestra	Fluoride	1	100	0.918	0.918			
Parco Le Ginestra	Heterotrophic plate count	1	100	17500	17500			
Parco Le Ginestra	Iron	1	100	0.135	0.135	26	0.005192308	
Parco Le Ginestra	Lead	1	100	0.00232	0.00232	0.02	0.116	
Parco Le Ginestra	Manganese (Water)	1	100	0.00331	0.00331	0.88	0.003761364	
Parco Le Ginestra	Nickel	1	100	0.0105	0.0105	0.73	0.014383562	
Parco Le Ginestra	Nitrate (measured as NO3-)	1	100	293	293	255.2	1.148119122	100
Parco Le Ginestra	Selenium	1	100	0.000784	0.000784	0.18	0.004355556	
Parco Le Ginestra	Sulfate	1	100	136	136			
Parco Le Ginestra	Tetrachloroethene	1	100	0.00111	0.00111	0.22	0.005045455	
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C	1	100	200.5	200.5			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	6.8E-10	6.8E-10	0.000000037	0.018378378	
Parco Le Ginestra	TOTAL HPCDD	1	100	4.6E-09	4.6E-09			
Parco Le Ginestra	TOTAL HPCDF	1	100	0.00000002	0.00000002			
Parco Le Ginestra	TOTAL HXCDF	1	100	0.000000016	0.000000016			
Parco Le Ginestra	TOTAL PECDD	1	100	1.3E-09	1.3E-09			
Parco Le Ginestra	TOTAL PECDF	1	100	1.6E-09	1.6E-09			
Parco Le Ginestra	TOTAL TCDF	1	100	9E-10	9E-10			
Parco Le Ginestra	Total Trihalomethanes	1	100	0.000148	0.000148			
Parco Le Ginestra	Uranium	1	100	0.0317	0.0317	0.11	0.288181818	
Parco Le Ginestra	Vanadium	1	100	0.0132	0.0132	0.26	0.050769231	
Parco Le Ginestra	Zinc	1	100	12.4	12.4	11	1.127272727	100

Table C-4
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and Flag Quarters
Media: Irrigation Well Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Acetone	1	100	0.00277	0.00277			
Parco Le Ginestra	Aluminum	1	100	0.00357	0.00357			
Parco Le Ginestra	Antimony	1	100	0.000226	0.000226			
Parco Le Ginestra	Arsenic	1	100	0.00511	0.00511			
Parco Le Ginestra	Barium	1	100	0.00453	0.00453			
Parco Le Ginestra	Beryllium	1	100	0.0000879	0.0000879			
Parco Le Ginestra	Bis(2-ethylhexyl)phthalate	1	100	0.027	0.027			
Parco Le Ginestra	Butylbenzylphthalate	1	100	0.000145	0.000145			
Parco Le Ginestra	Chloride	1	100	66.9	66.9			
Parco Le Ginestra	Chloroform	1	100	0.000148	0.000148	0.00021	0.704761905	
Parco Le Ginestra	Chromium	1	100	0.00902	0.00902			
Parco Le Ginestra	Cobalt	1	100	0.000168	0.000168			
Parco Le Ginestra	Copper	1	100	0.00401	0.00401			
Parco Le Ginestra	Fecal Coliform	1	100	144.5	144.5			
Parco Le Ginestra	Fecal Streptococcus	1	100	1781	1781			
Parco Le Ginestra	Fluoride	1	100	0.918	0.918			
Parco Le Ginestra	Heterotrophic plate count	1	100	17500	17500			
Parco Le Ginestra	Iron	1	100	0.135	0.135			
Parco Le Ginestra	Lead	1	100	0.00232	0.00232			
Parco Le Ginestra	Manganese (Water)	1	100	0.00331	0.00331			
Parco Le Ginestra	Nickel	1	100	0.0105	0.0105			
Parco Le Ginestra	Nitrate (measured as NO3-)	1	100	293	293			
Parco Le Ginestra	Selenium	1	100	0.000784	0.000784			
Parco Le Ginestra	Sulfate	1	100	136	136			
Parco Le Ginestra	Tetrachloroethene	1	100	0.00111	0.00111	0.00082	1.353658537	100
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C	1	100	200.5	200.5			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	6.8E-10	6.8E-10			
Parco Le Ginestra	TOTAL HPCDD	1	100	4.6E-09	4.6E-09			
Parco Le Ginestra	TOTAL HPCDF	1	100	0.00000002	0.00000002			
Parco Le Ginestra	TOTAL HXCDF	1	100	0.000000016	0.000000016			
Parco Le Ginestra	TOTAL PECDD	1	100	1.3E-09	1.3E-09			
Parco Le Ginestra	TOTAL PECDF	1	100	1.6E-09	1.6E-09			
Parco Le Ginestra	TOTAL TCDF	1	100	9E-10	9E-10			
Parco Le Ginestra	Total Trihalomethanes	1	100	0.000148	0.000148			
Parco Le Ginestra	Uranium	1	100	0.0317	0.0317			
Parco Le Ginestra	Vanadium	1	100	0.0132	0.0132			
Parco Le Ginestra	Zinc	1	100	12.4	12.4			

Table C-4
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and Flag Quarters
Media: Irrigation Well Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Acetone	1	100	0.00277	0.00277	64	4.32813E-05	
Parco Le Ginestra	Aluminum	1	100	0.00357	0.00357			
Parco Le Ginestra	Antimony	1	100	0.000226	0.000226			
Parco Le Ginestra	Arsenic	1	100	0.00511	0.00511			
Parco Le Ginestra	Barium	1	100	0.00453	0.00453			
Parco Le Ginestra	Beryllium	1	100	0.0000879	0.0000879			
Parco Le Ginestra	Bis(2-ethylhexyl)phthalate	1	100	0.027	0.027			
Parco Le Ginestra	Butylbenzylphthalate	1	100	0.000145	0.000145			
Parco Le Ginestra	Chloride	1	100	66.9	66.9			
Parco Le Ginestra	Chloroform	1	100	0.000148	0.000148	0.2	0.00074	
Parco Le Ginestra	Chromium	1	100	0.00902	0.00902			
Parco Le Ginestra	Cobalt	1	100	0.000168	0.000168			
Parco Le Ginestra	Copper	1	100	0.00401	0.00401			
Parco Le Ginestra	Fecal Coliform	1	100	144.5	144.5			
Parco Le Ginestra	Fecal Streptococcus	1	100	1781	1781			
Parco Le Ginestra	Fluoride	1	100	0.918	0.918			
Parco Le Ginestra	Heterotrophic plate count	1	100	17500	17500			
Parco Le Ginestra	Iron	1	100	0.135	0.135			
Parco Le Ginestra	Lead	1	100	0.00232	0.00232			
Parco Le Ginestra	Manganese (Water)	1	100	0.00331	0.00331			
Parco Le Ginestra	Nickel	1	100	0.0105	0.0105			
Parco Le Ginestra	Nitrate (measured as NO3-)	1	100	293	293			
Parco Le Ginestra	Selenium	1	100	0.000784	0.000784			
Parco Le Ginestra	Sulfate	1	100	136	136			
Parco Le Ginestra	Tetrachloroethene	1	100	0.00111	0.00111	0.57	0.001947368	
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C	1	100	200.5	200.5			
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	6.8E-10	6.8E-10			
Parco Le Ginestra	TOTAL HPCDD	1	100	4.6E-09	4.6E-09			
Parco Le Ginestra	TOTAL HPCDF	1	100	0.00000002	0.00000002			
Parco Le Ginestra	TOTAL HXCDF	1	100	0.000000016	0.000000016			
Parco Le Ginestra	TOTAL PECDD	1	100	1.3E-09	1.3E-09			
Parco Le Ginestra	TOTAL PECDF	1	100	1.6E-09	1.6E-09			
Parco Le Ginestra	TOTAL TCDF	1	100	9E-10	9E-10			
Parco Le Ginestra	Total Trihalomethanes	1	100	0.000148	0.000148			
Parco Le Ginestra	Uranium	1	100	0.0317	0.0317			
Parco Le Ginestra	Vanadium	1	100	0.0132	0.0132			
Parco Le Ginestra	Zinc	1	100	12.4	12.4			

Table C-4
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Leased Parcos and Flag Quarters
Media: Irrigation Well Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Parco Le Ginestra	Acetone	1	100	0.00277	0.00277			
Parco Le Ginestra	Aluminum	1	100	0.00357	0.00357			
Parco Le Ginestra	Antimony	1	100	0.000226	0.000226	0.006	0.037666667	
Parco Le Ginestra	Arsenic	1	100	0.00511	0.00511	0.01	0.511	
Parco Le Ginestra	Barium	1	100	0.00453	0.00453	2	0.002265	
Parco Le Ginestra	Beryllium	1	100	0.0000879	0.0000879	0.004	0.021975	
Parco Le Ginestra	Bis(2-ethylhexyl)phthalate	1	100	0.027	0.027	0.006	4.5	100
Parco Le Ginestra	Butylbenzylphthalate	1	100	0.000145	0.000145			
Parco Le Ginestra	Chloride	1	100	66.9	66.9			
Parco Le Ginestra	Chloroform	1	100	0.000148	0.000148			
Parco Le Ginestra	Chromium	1	100	0.00902	0.00902	0.1	0.0902	
Parco Le Ginestra	Cobalt	1	100	0.000168	0.000168			
Parco Le Ginestra	Copper	1	100	0.00401	0.00401			
Parco Le Ginestra	Fecal Coliform	1	100	144.5	144.5		1.1	100
Parco Le Ginestra	Fecal Steptococcus	1	100	1781	1781			
Parco Le Ginestra	Fluoride	1	100	0.918	0.918	4	0.2295	
Parco Le Ginestra	Heterotrophic plate count	1	100	17500	17500			
Parco Le Ginestra	Iron	1	100	0.135	0.135			
Parco Le Ginestra	Lead	1	100	0.00232	0.00232			
Parco Le Ginestra	Manganese (Water)	1	100	0.00331	0.00331			
Parco Le Ginestra	Nickel	1	100	0.0105	0.0105			
Parco Le Ginestra	Nitrate (measured as NO3-)	1	100	293	293	44.3	6.613995485	100
Parco Le Ginestra	Selenium	1	100	0.000784	0.000784	0.05	0.01568	
Parco Le Ginestra	Sulfate	1	100	136	136			
Parco Le Ginestra	Tetrachloroethene	1	100	0.00111	0.00111	0.005	0.222	
Parco Le Ginestra	Total Coliforms (including fecal coliform and E. C)	1	100	200.5	200.5		1.1	100
Parco Le Ginestra	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	6.8E-10	6.8E-10	0.00000003	0.022666667	
Parco Le Ginestra	TOTAL HPCDD	1	100	4.6E-09	4.6E-09			
Parco Le Ginestra	TOTAL HPCDF	1	100	0.00000002	0.00000002			
Parco Le Ginestra	TOTAL HXCDF	1	100	0.000000016	0.000000016			
Parco Le Ginestra	TOTAL PECDD	1	100	1.3E-09	1.3E-09			
Parco Le Ginestra	TOTAL PECDF	1	100	1.6E-09	1.6E-09			
Parco Le Ginestra	TOTAL TCDF	1	100	9E-10	9E-10			
Parco Le Ginestra	Total Trihalomethanes	1	100	0.000148	0.000148	0.0807	0.001833953	
Parco Le Ginestra	Uranium	1	100	0.0317	0.0317	0.03	1.056666667	100
Parco Le Ginestra	Vanadium	1	100	0.0132	0.0132			
Parco Le Ginestra	Zinc	1	100	12.4	12.4			

Appendix D

STATISTICAL SUMMARY OF ANALYTICAL RESULTS, STANDARDS, AND RISK RESULTS FOR GOVERNMENT- BASED PROPERTIES:

**Capodichino, Carney Park, U.S. Consulate-Naples
(Consulate), JFC NATO, Lago Patria Receiver Site
(Receiver Site), Gricignano Support Site (Support Site)**



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TABLE D-3 – IRRIGATION WELL WATER INFORMATION

RISK-BASED SCREENING LEVELS

1.1 Overview

This appendix presents the analytical data statistical summaries, regional screening levels and other risk-based criteria, and the exceedance factor calculations for the Government-Based Properties. The data are presented by media as follows:

- Table D-1 – Soil Information
- Table D-2 – Tap Water Information
- Table D-3 – Irrigation Well Water Information

TABLES

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	80	0.00218	0.00629			
Capodichino	1,4-Dichlorobenzene	10	10	0.00013	0.00013	2.6	0.00005	
Capodichino	4,4-DDT	10	10	0.00304	0.00304	1.7	0.001788235	
Capodichino	Aluminum	10	100	22200	57500			
Capodichino	Anthracene	10	10	0.0501	0.0501			
Capodichino	Antimony	10	100	0.602	1.51			
Capodichino	Arsenic	10	100	8.8	17.1	0.39	43.84615385	100
Capodichino	Barium	10	100	212	449			
Capodichino	Benzo(g,h,i)perylene	10	20	0.0344	0.0845			
Capodichino	Beryllium	10	100	3.47	7.74	1400	0.005528571	
Capodichino	Bis(2-ethylhexyl)phthalate	10	60	0.117	0.206	35	0.005885714	
Capodichino	Butylbenzylphthalate	10	10	0.108	0.108			
Capodichino	Cadmium (Food)	10	100	0.184	0.424	1800	0.000235556	
Capodichino	Carbazole	10	10	0.0398	0.0398	24	0.001658333	
Capodichino	Chloroform	10	50	0.0106	0.0273	0.3	0.091	
Capodichino	Chromium	10	100	4.995	9.51			
Capodichino	Cobalt	10	100	5.13	10.3			
Capodichino	Copper	10	100	27.4	61.9			
Capodichino	Dibenzofuran	10	10	0.0217	0.0217			
Capodichino	Di-n-butylphthalate	10	10	0.048	0.048			
Capodichino	Fluoranthene	10	40	0.0252	0.1629			
Capodichino	Fluorene	10	10	0.0257	0.0257			
Capodichino	Iron	10	100	13300	29700			
Capodichino	Lead	10	100	40.9	76.5			
Capodichino	Manganese (food)	10	100	429	825			
Capodichino	Mercury	10	60	0.177	0.37			
Capodichino	Naphthalene	10	10	0.0379	0.0379	3.9	0.009717949	
Capodichino	Nickel	10	100	6.455	13.2			
Capodichino	Phenanthrene	10	10	0.23	0.23			
Capodichino	Pyrene	10	40	0.0252	0.1294			
Capodichino	Selenium	10	10	0.482	0.482			
Capodichino	Silver	10	40	0.145	5.66			
Capodichino	Thallium	10	100	1.27	2.13			
Capodichino	Tin	10	100	2.07	4.68			
Capodichino	Toluene	10	70	0.00123	0.0189			
Capodichino	Total Carcinogenic PAHS (BaP TEQs)	10	30	0.0023535	0.1803351	0.015	12.02234	20
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	6.305E-08	1.3046E-06	0.0000045	0.289911111	
Capodichino	TOTAL HPCDD	10	100	0.0000022	0.0000033			
Capodichino	TOTAL HPCDF	10	100	0.0000026	0.000012			
Capodichino	TOTAL HXCDD	10	100	0.0000019	0.0000081			
Capodichino	TOTAL HXCDF	10	100	0.0000022	0.000015			
Capodichino	TOTAL PECDD	10	100	0.000001	0.0000055			
Capodichino	TOTAL PECDF	10	100	0.0000023	0.000019			
Capodichino	Total Solids	10	100	73.5	81			
Capodichino	TOTAL TCDD	10	100	0.0000012	0.0000045			
Capodichino	TOTAL TCDF	10	100	0.0000024	0.000012			
Capodichino	Total Trihalomethanes	10	50	0.0106	0.0273			
Capodichino	Vanadium	10	100	28.5	71.6			
Capodichino	Zinc	10	100	43	132			

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	80	0.00218	0.00629	43000	1.46279E-07	
Capodichino	1,4-Dichlorobenzene	10	10	0.00013	0.00013	10000	0.00000013	
Capodichino	4,4-DDT	10	10	0.00304	0.00304	36	8.44444E-05	
Capodichino	Aluminum	10	100	22200	57500	77000	0.746753247	
Capodichino	Anthracene	10	10	0.0501	0.0501	17000	2.94706E-06	
Capodichino	Antimony	10	100	0.602	1.51	31	0.048709677	
Capodichino	Arsenic	10	100	8.8	17.1	22	0.777272727	
Capodichino	Barium	10	100	212	449	15000	0.029933333	
Capodichino	Benzo(g,h,i)perylene	10	20	0.0344	0.0845			
Capodichino	Beryllium	10	100	3.47	7.74	160	0.048375	
Capodichino	Bis(2-ethylhexyl)phthalate	10	60	0.117	0.206	1200	0.000171667	
Capodichino	Butylbenzylphthalate	10	10	0.108	0.108	12000	0.000009	
Capodichino	Cadmium (Food)	10	100	0.184	0.424	70	0.006057143	
Capodichino	Carbazole	10	10	0.0398	0.0398			
Capodichino	Chloroform	10	50	0.0106	0.0273	220	0.000124091	
Capodichino	Chromium	10	100	4.995	9.51			
Capodichino	Cobalt	10	100	5.13	10.3			
Capodichino	Copper	10	100	27.4	61.9	3100	0.019967742	
Capodichino	Dibenzofuran	10	10	0.0217	0.0217			
Capodichino	Di-n-butylphthalate	10	10	0.048	0.048	6100	7.86885E-06	
Capodichino	Fluoranthene	10	40	0.0252	0.1629	2300	7.08261E-05	
Capodichino	Fluorene	10	10	0.0257	0.0257	2300	1.11739E-05	
Capodichino	Iron	10	100	13300	29700	55000	0.54	
Capodichino	Lead	10	100	40.9	76.5	400	0.19125	
Capodichino	Manganese (food)	10	100	429	825			
Capodichino	Mercury	10	60	0.177	0.37	6.7	0.055223881	
Capodichino	Naphthalene	10	10	0.0379	0.0379	150	0.000252667	
Capodichino	Nickel	10	100	6.455	13.2	1600	0.00825	
Capodichino	Phenanthrene	10	10	0.23	0.23			
Capodichino	Pyrene	10	40	0.0252	0.1294	1700	7.61176E-05	
Capodichino	Selenium	10	10	0.482	0.482	390	0.001235897	
Capodichino	Silver	10	40	0.145	5.66	390	0.014512821	
Capodichino	Thallium	10	100	1.27	2.13	5.1	0.417647059	
Capodichino	Tin	10	100	2.07	4.68	47000	9.95745E-05	
Capodichino	Toluene	10	70	0.00123	0.0189	5000	0.00000378	
Capodichino	Total Carcinogenic PAHS (BaP TEQs)	10	30	0.0023535	0.1803351			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	6.305E-08	1.3046E-06	0.000072	0.018119444	
Capodichino	TOTAL HPCDD	10	100	0.0000022	0.0000033			
Capodichino	TOTAL HPCDF	10	100	0.0000026	0.000012			
Capodichino	TOTAL HXCDD	10	100	0.0000019	0.0000081			
Capodichino	TOTAL HXCDF	10	100	0.0000022	0.000015			
Capodichino	TOTAL PECDD	10	100	0.000001	0.0000055			
Capodichino	TOTAL PECDF	10	100	0.0000023	0.000019			
Capodichino	Total Solids	10	100	73.5	81			
Capodichino	TOTAL TCDD	10	100	0.0000012	0.0000045			
Capodichino	TOTAL TCDF	10	100	0.0000024	0.000012			
Capodichino	Total Trihalomethanes	10	50	0.0106	0.0273			
Capodichino	Vanadium	10	100	28.5	71.6	550	0.130181818	
Capodichino	Zinc	10	100	43	132	23000	0.00573913	

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	80	0.00218	0.00629			
Capodichino	1,4-Dichlorobenzene	10	10	0.00013	0.00013			
Capodichino	4,4-DDT	10	10	0.00304	0.00304			
Capodichino	Aluminum	10	100	22200	57500	86900	0.661680092	
Capodichino	Anthracene	10	10	0.0501	0.0501			
Capodichino	Antimony	10	100	0.602	1.51	42.8	0.035280374	
Capodichino	Arsenic	10	100	8.8	17.1	164	0.104268293	
Capodichino	Barium	10	100	212	449	1813	0.247655819	
Capodichino	Benzo(g,h,i)perylene	10	20	0.0344	0.0845			
Capodichino	Beryllium	10	100	3.47	7.74			
Capodichino	Bis(2-ethylhexyl)phthalate	10	60	0.117	0.206			
Capodichino	Butylbenzylphthalate	10	10	0.108	0.108			
Capodichino	Cadmium (Food)	10	100	0.184	0.424	10.6	0.04	
Capodichino	Carbazole	10	10	0.0398	0.0398			
Capodichino	Chloroform	10	50	0.0106	0.0273			
Capodichino	Chromium	10	100	4.995	9.51	579	0.01642487	
Capodichino	Cobalt	10	100	5.13	10.3	36.6	0.281420765	
Capodichino	Copper	10	100	27.4	61.9	3965	0.015611602	
Capodichino	Dibenzofuran	10	10	0.0217	0.0217			
Capodichino	Di-n-butylphthalate	10	10	0.048	0.048			
Capodichino	Fluoranthene	10	40	0.0252	0.1629			
Capodichino	Fluorene	10	10	0.0257	0.0257			
Capodichino	Iron	10	100	13300	29700	154600	0.192108668	
Capodichino	Lead	10	100	40.9	76.5	2052	0.037280702	
Capodichino	Manganese (food)	10	100	429	825	5923	0.139287523	
Capodichino	Mercury	10	60	0.177	0.37	2.66	0.139097744	
Capodichino	Naphthalene	10	10	0.0379	0.0379			
Capodichino	Nickel	10	100	6.455	13.2	689	0.0191582	
Capodichino	Phenanthrene	10	10	0.23	0.23			
Capodichino	Pyrene	10	40	0.0252	0.1294			
Capodichino	Selenium	10	10	0.482	0.482	1.9	0.253684211	
Capodichino	Silver	10	40	0.145	5.66	8.132	0.69601574	
Capodichino	Thallium	10	100	1.27	2.13	69	0.030869565	
Capodichino	Tin	10	100	2.07	4.68			
Capodichino	Toluene	10	70	0.00123	0.0189			
Capodichino	Total Carcinogenic PAHS (BaP TEQs)	10	30	0.0023535	0.1803351			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	6.305E-08	1.3046E-06			
Capodichino	TOTAL HPCDD	10	100	0.0000022	0.000033			
Capodichino	TOTAL HPCDF	10	100	0.0000026	0.000012			
Capodichino	TOTAL HXCDD	10	100	0.0000019	0.0000081			
Capodichino	TOTAL HXCDF	10	100	0.0000022	0.000015			
Capodichino	TOTAL PECDD	10	100	0.000001	0.0000055			
Capodichino	TOTAL PECDF	10	100	0.0000023	0.000019			
Capodichino	Total Solids	10	100	73.5	81			
Capodichino	TOTAL TCDD	10	100	0.0000012	0.0000045			
Capodichino	TOTAL TCDF	10	100	0.0000024	0.000012			
Capodichino	Total Trihalomethanes	10	50	0.0106	0.0273			
Capodichino	Vanadium	10	100	28.5	71.6	187	0.382887701	
Capodichino	Zinc	10	100	43	132	3211	0.041108689	

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	70	0.00295	0.0584			
Carney Park	4-Isopropyltoluene	10	20	0.000361	0.000891			
Carney Park	Acetone	10	30	0.00972	0.0192			
Carney Park	Aluminum	10	70	20300	39200			
Carney Park	Antimony	10	100	0.337	0.802			
Carney Park	Arsenic	10	100	5.91	17.5	0.39	44.87179487	100
Carney Park	Barium	10	70	165	267.5			
Carney Park	Beryllium	10	100	2.96	4.925	1400	0.003517857	
Carney Park	Bis(2-ethylhexyl)phthalate	10	80	0.139	1.03	35	0.029428571	
Carney Park	Butylbenzylphthalate	10	10	0.137	0.137			
Carney Park	Cadmium (Food)	10	100	0.172	0.3185	1800	0.000176944	
Carney Park	Chloroform	10	20	0.0154	0.0239	0.3	0.079666667	
Carney Park	Chromium	10	100	13.1	34.1			
Carney Park	Cobalt	10	100	3.16	4.555			
Carney Park	Copper	10	100	17.4	33			
Carney Park	Cyanide	10	10	0.127	0.127			
Carney Park	Di-n-butylphthalate	10	30	0.0518	0.068			
Carney Park	Fluoranthene	10	10	0.0228	0.0228			
Carney Park	Iron	10	70	12700	19750			
Carney Park	Lead	10	100	26	45.65			
Carney Park	Manganese (food)	10	70	405	733.5			
Carney Park	Nickel	10	100	2.61	5.7			
Carney Park	Pyrene	10	10	0.0228	0.0228			
Carney Park	Selenium	10	40	0.101	0.159			
Carney Park	Silver	10	10	0.811	0.811			
Carney Park	Thallium	10	60	0.532	1.74			
Carney Park	Tin	10	100	1.69	2.84			
Carney Park	Toluene	10	60	0.00193	0.0184			
Carney Park	Total Carcinogenic PAHS (BaP TEQs)	10	10	0.0251028	0.0251028	0.015	1.67352	10
Carney Park	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	2.868E-07	7.092E-07	0.0000045	0.1576	
Carney Park	TOTAL HPCDD	10	100	0.0000056	0.000046			
Carney Park	TOTAL HPCDF	10	50	0.0000034	0.000016			
Carney Park	TOTAL HXCDD	10	100	0.0000031	0.0000058			
Carney Park	TOTAL HXCDF	10	100	0.0000037	0.000013			
Carney Park	TOTAL PECDD	10	100	0.0000088	0.00000435			
Carney Park	TOTAL PECDF	10	100	0.0000025	0.000016			
Carney Park	Total Solids	10	100	70.6	79.9			
Carney Park	TOTAL TCDD	10	100	0.0000011	0.0000035			
Carney Park	TOTAL TCDF	10	100	0.000003	0.00001			
Carney Park	Total Trihalomethanes	10	20	0.0154	0.0239			
Carney Park	Vanadium	10	100	28.6	51.8			
Carney Park	Zinc	10	100	21.4	114			

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	70	0.00295	0.0584	43000	1.35814E-06	
Carney Park	4-Isopropyltoluene	10	20	0.000361	0.000891			
Carney Park	Acetone	10	30	0.00972	0.0192	61000	3.14754E-07	
Carney Park	Aluminum	10	70	20300	39200	77000	0.509090909	
Carney Park	Antimony	10	100	0.337	0.802	31	0.025870968	
Carney Park	Arsenic	10	100	5.91	17.5	22	0.795454545	
Carney Park	Barium	10	70	165	267.5	15000	0.017833333	
Carney Park	Beryllium	10	100	2.96	4.925	160	0.03078125	
Carney Park	Bis(2-ethylhexyl)phthalate	10	80	0.139	1.03	1200	0.000858333	
Carney Park	Butylbenzylphthalate	10	10	0.137	0.137	12000	1.14167E-05	
Carney Park	Cadmium (Food)	10	100	0.172	0.3185	70	0.00455	
Carney Park	Chloroform	10	20	0.0154	0.0239	220	0.000108636	
Carney Park	Chromium	10	100	13.1	34.1			
Carney Park	Cobalt	10	100	3.16	4.555			
Carney Park	Copper	10	100	17.4	33	3100	0.010645161	
Carney Park	Cyanide	10	10	0.127	0.127	1600	0.000079375	
Carney Park	Di-n-butylphthalate	10	30	0.0518	0.068	6100	1.11475E-05	
Carney Park	Fluoranthene	10	10	0.0228	0.0228	2300	9.91304E-06	
Carney Park	Iron	10	70	12700	19750	55000	0.359090909	
Carney Park	Lead	10	100	26	45.65	400	0.114125	
Carney Park	Manganese (food)	10	70	405	733.5			
Carney Park	Nickel	10	100	2.61	5.7	1600	0.0035625	
Carney Park	Pyrene	10	10	0.0228	0.0228	1700	1.34118E-05	
Carney Park	Selenium	10	40	0.101	0.159	390	0.000407692	
Carney Park	Silver	10	10	0.811	0.811	390	0.002079487	
Carney Park	Thallium	10	60	0.532	1.74	5.1	0.341176471	
Carney Park	Tin	10	100	1.69	2.84	47000	6.04255E-05	
Carney Park	Toluene	10	60	0.00193	0.0184	5000	0.00000368	
Carney Park	Total Carcinogenic PAHS (BaP TEQs)	10	10	0.0251028	0.0251028			
Carney Park	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	2.868E-07	7.092E-07	0.000072	0.00985	
Carney Park	TOTAL HPCDD	10	100	0.0000056	0.000046			
Carney Park	TOTAL HPCDF	10	50	0.0000034	0.000016			
Carney Park	TOTAL HXCDD	10	100	0.0000031	0.0000058			
Carney Park	TOTAL HXCDF	10	100	0.0000037	0.000013			
Carney Park	TOTAL PECDD	10	100	0.00000088	0.00000435			
Carney Park	TOTAL PECDF	10	100	0.0000025	0.000016			
Carney Park	Total Solids	10	100	70.6	79.9			
Carney Park	TOTAL TCDD	10	100	0.0000011	0.0000035			
Carney Park	TOTAL TCDF	10	100	0.000003	0.00001			
Carney Park	Total Trihalomethanes	10	20	0.0154	0.0239			
Carney Park	Vanadium	10	100	28.6	51.8	550	0.094181818	
Carney Park	Zinc	10	100	21.4	114	23000	0.004956522	

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	70	0.00295	0.0584			
Carney Park	4-Isopropyltoluene	10	20	0.000361	0.000891			
Carney Park	Acetone	10	30	0.00972	0.0192			
Carney Park	Aluminum	10	70	20300	39200	86900	0.451093211	
Carney Park	Antimony	10	100	0.337	0.802	42.8	0.018738318	
Carney Park	Arsenic	10	100	5.91	17.5	164	0.106707317	
Carney Park	Barium	10	70	165	267.5	1813	0.147545505	
Carney Park	Beryllium	10	100	2.96	4.925			
Carney Park	Bis(2-ethylhexyl)phthalate	10	80	0.139	1.03			
Carney Park	Butylbenzylphthalate	10	10	0.137	0.137			
Carney Park	Cadmium (Food)	10	100	0.172	0.3185	10.6	0.03004717	
Carney Park	Chloroform	10	20	0.0154	0.0239			
Carney Park	Chromium	10	100	13.1	34.1	579	0.058894646	
Carney Park	Cobalt	10	100	3.16	4.555	36.6	0.124453552	
Carney Park	Copper	10	100	17.4	33	3965	0.008322825	
Carney Park	Cyanide	10	10	0.127	0.127			
Carney Park	Di-n-butylphthalate	10	30	0.0518	0.068			
Carney Park	Fluoranthene	10	10	0.0228	0.0228			
Carney Park	Iron	10	70	12700	19750	154600	0.12774903	
Carney Park	Lead	10	100	26	45.65	2052	0.022246589	
Carney Park	Manganese (food)	10	70	405	733.5	5923	0.123839271	
Carney Park	Nickel	10	100	2.61	5.7	689	0.008272859	
Carney Park	Pyrene	10	10	0.0228	0.0228			
Carney Park	Selenium	10	40	0.101	0.159	1.9	0.083684211	
Carney Park	Silver	10	10	0.811	0.811	8.132	0.099729464	
Carney Park	Thallium	10	60	0.532	1.74	69	0.025217391	
Carney Park	Tin	10	100	1.69	2.84			
Carney Park	Toluene	10	60	0.00193	0.0184			
Carney Park	Total Carcinogenic PAHS (BaP TEQs)	10	10	0.0251028	0.0251028			
Carney Park	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	2.868E-07	7.092E-07			
Carney Park	TOTAL HPCDD	10	100	0.0000056	0.000046			
Carney Park	TOTAL HPCDF	10	50	0.0000034	0.000016			
Carney Park	TOTAL HXCDD	10	100	0.0000031	0.0000058			
Carney Park	TOTAL HXCDF	10	100	0.0000037	0.000013			
Carney Park	TOTAL PECDD	10	100	0.0000088	0.0000435			
Carney Park	TOTAL PECDF	10	100	0.0000025	0.000016			
Carney Park	Total Solids	10	100	70.6	79.9			
Carney Park	TOTAL TCDD	10	100	0.0000011	0.0000035			
Carney Park	TOTAL TCDF	10	100	0.000003	0.00001			
Carney Park	Total Trihalomethanes	10	20	0.0154	0.0239			
Carney Park	Vanadium	10	100	28.6	51.8	187	0.277005348	
Carney Park	Zinc	10	100	21.4	114	3211	0.035502959	

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	80	0.00163	0.0116			
Gricignano Support Site	2-Butanone (methyl ethyl ketone)	10	10	0.00342	0.00342			
Gricignano Support Site	Acenaphthene	10	10	0.0525	0.0525			
Gricignano Support Site	Aluminum	10	100	36000	50100			
Gricignano Support Site	Anthracene	10	10	0.102	0.102			
Gricignano Support Site	Antimony	10	100	0.359	0.629			
Gricignano Support Site	Arsenic	10	100	10.2	13.2	0.39	33.84615385	100
Gricignano Support Site	Barium	10	100	250	469			
Gricignano Support Site	Benzo(g,h,i)perylene	10	10	0.163	0.163			
Gricignano Support Site	Beryllium	10	100	4.56	6.49	1400	0.004635714	
Gricignano Support Site	Bis(2-ethylhexyl)phthalate	10	10	0.137	0.137	35	0.003914286	
Gricignano Support Site	Cadmium (Food)	10	100	0.186	0.27	1800	0.00015	
Gricignano Support Site	Carbazole	10	10	0.119	0.119	24	0.004958333	
Gricignano Support Site	Chloroform	10	20	0.00114	0.00168	0.3	0.0056	
Gricignano Support Site	Chromium	10	100	3.43	27.2			
Gricignano Support Site	Cobalt	10	100	5.26	6.45			
Gricignano Support Site	Copper	10	100	14.4	23.4			
Gricignano Support Site	Cyanide	10	10	0.17	0.17			
Gricignano Support Site	Dibenzofuran	10	10	0.0302	0.0302			
Gricignano Support Site	Fluoranthene	10	20	0.032	0.735			
Gricignano Support Site	Fluorene	10	10	0.0231	0.0231			
Gricignano Support Site	Iron	10	100	17600	23550			
Gricignano Support Site	Lead	10	100	25.7	39.9			
Gricignano Support Site	Manganese (food)	10	100	545	706			
Gricignano Support Site	Mercury	10	10	0.215	0.215			
Gricignano Support Site	Naphthalene	10	10	0.0159	0.0159	3.9	0.004076923	
Gricignano Support Site	Nickel	10	100	4.61	7.67			
Gricignano Support Site	Phenanthrene	10	10	0.542	0.542			
Gricignano Support Site	Pyrene	10	20	0.026	0.614			
Gricignano Support Site	Selenium	10	60	0.17	0.518			
Gricignano Support Site	Silver	10	30	0.13	0.165			
Gricignano Support Site	Thallium	10	70	1.44	1.86			
Gricignano Support Site	Tin	10	100	2.22	3.03			
Gricignano Support Site	Toluene	10	90	0.000847	0.0164			
Gricignano Support Site	Total Carcinogenic PAHS (BaP TEQs)	10	20	0.000026	0.385023	0.015	25.6682	10
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	5.87E-08	6.465E-07	0.0000045	0.143666667	
Gricignano Support Site	TOTAL HPCDD	10	100	0.0000034	0.00001			
Gricignano Support Site	TOTAL HPCDF	10	100	0.0000036	0.0000163			
Gricignano Support Site	TOTAL HXCDD	10	100	0.0000018	0.0000056			
Gricignano Support Site	TOTAL HXCDF	10	100	0.0000025	0.000008			
Gricignano Support Site	TOTAL PECDD	10	100	0.00000066	0.0000056			
Gricignano Support Site	TOTAL PECDF	10	100	0.0000012	0.0000076			
Gricignano Support Site	Total Solids	10	100	69.3	77.2			
Gricignano Support Site	TOTAL TCDD	10	100	0.0000009	0.0000037			
Gricignano Support Site	TOTAL TCDF	10	100	0.0000014	0.00001			
Gricignano Support Site	Total Trihalomethanes	10	20	0.00114	0.00168			
Gricignano Support Site	Vanadium	10	100	37.8	47.9			
Gricignano Support Site	Zinc	10	100	49.1	77.7			

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	80	0.00163	0.0116	43000	2.69767E-07	
Gricignano Support Site	2-Butanone (methyl ethyl ketone)	10	10	0.00342	0.00342	28000	1.22143E-07	
Gricignano Support Site	Acenaphthene	10	10	0.0525	0.0525	3400	1.54412E-05	
Gricignano Support Site	Aluminum	10	100	36000	50100	77000	0.650649351	
Gricignano Support Site	Anthracene	10	10	0.102	0.102	17000	0.000006	
Gricignano Support Site	Antimony	10	100	0.359	0.629	31	0.020290323	
Gricignano Support Site	Arsenic	10	100	10.2	13.2	22	0.6	
Gricignano Support Site	Barium	10	100	250	469	15000	0.031266667	
Gricignano Support Site	Benzo(g,h,i)perylene	10	10	0.163	0.163			
Gricignano Support Site	Beryllium	10	100	4.56	6.49	160	0.0405625	
Gricignano Support Site	Bis(2-ethylhexyl)phthalate	10	10	0.137	0.137	1200	0.000114167	
Gricignano Support Site	Cadmium (Food)	10	100	0.186	0.27	70	0.003857143	
Gricignano Support Site	Carbazole	10	10	0.119	0.119			
Gricignano Support Site	Chloroform	10	20	0.00114	0.00168	220	7.63636E-06	
Gricignano Support Site	Chromium	10	100	3.43	27.2			
Gricignano Support Site	Cobalt	10	100	5.26	6.45			
Gricignano Support Site	Copper	10	100	14.4	23.4	3100	0.007548387	
Gricignano Support Site	Cyanide	10	10	0.17	0.17	1600	0.00010625	
Gricignano Support Site	Dibenzofuran	10	10	0.0302	0.0302			
Gricignano Support Site	Fluoranthene	10	20	0.032	0.735	2300	0.000319565	
Gricignano Support Site	Fluorene	10	10	0.0231	0.0231	2300	1.00435E-05	
Gricignano Support Site	Iron	10	100	17600	23550	55000	0.428181818	
Gricignano Support Site	Lead	10	100	25.7	39.9	400	0.09975	
Gricignano Support Site	Manganese (food)	10	100	545	706			
Gricignano Support Site	Mercury	10	10	0.215	0.215	6.7	0.032089552	
Gricignano Support Site	Naphthalene	10	10	0.0159	0.0159	150	0.000106	
Gricignano Support Site	Nickel	10	100	4.61	7.67	1600	0.00479375	
Gricignano Support Site	Phenanthrene	10	10	0.542	0.542			
Gricignano Support Site	Pyrene	10	20	0.026	0.614	1700	0.000361176	
Gricignano Support Site	Selenium	10	60	0.17	0.518	390	0.001328205	
Gricignano Support Site	Silver	10	30	0.13	0.165	390	0.000423077	
Gricignano Support Site	Thallium	10	70	1.44	1.86	5.1	0.364705882	
Gricignano Support Site	Tin	10	100	2.22	3.03	47000	6.44681E-05	
Gricignano Support Site	Toluene	10	90	0.000847	0.0164	5000	0.00000328	
Gricignano Support Site	Total Carcinogenic PAHS (BaP TEQs)	10	20	0.000026	0.385023			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	5.87E-08	6.465E-07	0.000072	0.008979167	
Gricignano Support Site	TOTAL HPCDD	10	100	0.0000034	0.00001			
Gricignano Support Site	TOTAL HPCDF	10	100	0.0000036	0.0000163			
Gricignano Support Site	TOTAL HXCDD	10	100	0.0000018	0.0000056			
Gricignano Support Site	TOTAL HXCDF	10	100	0.0000025	0.000008			
Gricignano Support Site	TOTAL PECDD	10	100	0.00000066	0.0000056			
Gricignano Support Site	TOTAL PECDF	10	100	0.0000012	0.0000076			
Gricignano Support Site	Total Solids	10	100	69.3	77.2			
Gricignano Support Site	TOTAL TCDD	10	100	0.0000009	0.0000037			
Gricignano Support Site	TOTAL TCDF	10	100	0.0000014	0.00001			
Gricignano Support Site	Total Trihalomethanes	10	20	0.00114	0.00168			
Gricignano Support Site	Vanadium	10	100	37.8	47.9	550	0.087090909	
Gricignano Support Site	Zinc	10	100	49.1	77.7	23000	0.003378261	

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	80	0.00163	0.0116			
Gricignano Support Site	2-Butanone (methyl ethyl ketone)	10	10	0.00342	0.00342			
Gricignano Support Site	Acenaphthene	10	10	0.0525	0.0525			
Gricignano Support Site	Aluminum	10	100	36000	50100	86900	0.576524741	
Gricignano Support Site	Anthracene	10	10	0.102	0.102			
Gricignano Support Site	Antimony	10	100	0.359	0.629	42.8	0.014696262	
Gricignano Support Site	Arsenic	10	100	10.2	13.2	164	0.080487805	
Gricignano Support Site	Barium	10	100	250	469	1813	0.258687259	
Gricignano Support Site	Benzo(g,h,i)perylene	10	10	0.163	0.163			
Gricignano Support Site	Beryllium	10	100	4.56	6.49			
Gricignano Support Site	Bis(2-ethylhexyl)phthalate	10	10	0.137	0.137			
Gricignano Support Site	Cadmium (Food)	10	100	0.186	0.27	10.6	0.025471698	
Gricignano Support Site	Carbazole	10	10	0.119	0.119			
Gricignano Support Site	Chloroform	10	20	0.00114	0.00168			
Gricignano Support Site	Chromium	10	100	3.43	27.2	579	0.046977547	
Gricignano Support Site	Cobalt	10	100	5.26	6.45	36.6	0.176229508	
Gricignano Support Site	Copper	10	100	14.4	23.4	3965	0.005901639	
Gricignano Support Site	Cyanide	10	10	0.17	0.17			
Gricignano Support Site	Dibenzofuran	10	10	0.0302	0.0302			
Gricignano Support Site	Fluoranthene	10	20	0.032	0.735			
Gricignano Support Site	Fluorene	10	10	0.0231	0.0231			
Gricignano Support Site	Iron	10	100	17600	23550	154600	0.15232859	
Gricignano Support Site	Lead	10	100	25.7	39.9	2052	0.019444444	
Gricignano Support Site	Manganese (food)	10	100	545	706	5923	0.119196353	
Gricignano Support Site	Mercury	10	10	0.215	0.215	2.66	0.080827068	
Gricignano Support Site	Naphthalene	10	10	0.0159	0.0159			
Gricignano Support Site	Nickel	10	100	4.61	7.67	689	0.011132075	
Gricignano Support Site	Phenanthrene	10	10	0.542	0.542			
Gricignano Support Site	Pyrene	10	20	0.026	0.614			
Gricignano Support Site	Selenium	10	60	0.17	0.518	1.9	0.272631579	
Gricignano Support Site	Silver	10	30	0.13	0.165	8.132	0.020290212	
Gricignano Support Site	Thallium	10	70	1.44	1.86	69	0.026956522	
Gricignano Support Site	Tin	10	100	2.22	3.03			
Gricignano Support Site	Toluene	10	90	0.000847	0.0164			
Gricignano Support Site	Total Carcinogenic PAHS (BaP TEQs)	10	20	0.000026	0.385023			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	100	5.87E-08	6.465E-07			
Gricignano Support Site	TOTAL HPCDD	10	100	0.0000034	0.00001			
Gricignano Support Site	TOTAL HPCDF	10	100	0.0000036	0.0000163			
Gricignano Support Site	TOTAL HXCDD	10	100	0.0000018	0.0000056			
Gricignano Support Site	TOTAL HXCDF	10	100	0.0000025	0.000008			
Gricignano Support Site	TOTAL PECDD	10	100	0.0000066	0.0000056			
Gricignano Support Site	TOTAL PECDF	10	100	0.0000012	0.0000076			
Gricignano Support Site	Total Solids	10	100	69.3	77.2			
Gricignano Support Site	TOTAL TCDD	10	100	0.0000009	0.0000037			
Gricignano Support Site	TOTAL TCDF	10	100	0.0000014	0.00001			
Gricignano Support Site	Total Trihalomethanes	10	20	0.00114	0.00168			
Gricignano Support Site	Vanadium	10	100	37.8	47.9	187	0.256149733	
Gricignano Support Site	Zinc	10	100	49.1	77.7	3211	0.024198069	

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
JFC NATO	2-Butanone (methyl ethyl ketone)	9	11.11	0.00288	0.00288			
JFC NATO	Acenaphthylene	9	22.22	0.0132	0.0156			
JFC NATO	Acetone	9	33.33	0.00638	0.0176			
JFC NATO	Aluminum	9	100	13300	21600			
JFC NATO	Anthracene	9	11.11	0.0144	0.0144			
JFC NATO	Antimony	9	100	0.37	0.96			
JFC NATO	Aroclor 1260	9	66.67	0.00798	0.131	0.22	0.595454545	
JFC NATO	Arsenic	9	100	7.47	11	0.39	28.20512821	100
JFC NATO	Barium	9	100	121	242			
JFC NATO	Benzo(g,h,i)perylene	9	55.56	0.0354	0.12			
JFC NATO	Beryllium	9	100	1.7	2.8	1400	0.002	
JFC NATO	Bis(2-ethylhexyl)phthalate	9	55.56	0.109	0.212	35	0.006057143	
JFC NATO	Cadmium (Food)	9	100	0.16	2	1800	0.001111111	
JFC NATO	Chromium	9	100	2.6	40			
JFC NATO	Cobalt	9	100	2.8	4.5			
JFC NATO	Copper	9	100	12	138			
JFC NATO	Cyanide	9	11.11	0.13	0.13			
JFC NATO	Di-n-butylphthalate	9	11.11	0.0506	0.0506			
JFC NATO	Fluoranthene	9	88.89	0.0216	0.206			
JFC NATO	Iron	9	100	12800	20000			
JFC NATO	Lead	9	100	22	101			
JFC NATO	Manganese (food)	9	100	354	537			
JFC NATO	Mercury	9	55.56	0.11	0.16			
JFC NATO	Naphthalene	9	11.11	0.00625	0.00625	3.9	0.001602564	
JFC NATO	Nickel	9	100	2.5	5.1			
JFC NATO	Phenanthrene	9	33.33	0.053	0.0953			
JFC NATO	Pyrene	9	77.78	0.025	0.167			
JFC NATO	Selenium	9	100	0.081	0.25			
JFC NATO	Silver	9	77.78	0.15	0.83			
JFC NATO	Styrene	9	11.11	0.000341	0.000341			
JFC NATO	Tin	9	100	1.9	4.2			
JFC NATO	Toluene	9	33.33	0.00245	0.00358			
JFC NATO	Total Carcinogenic PAHS (BaP TEQs)	9	88.89	0.000144	0.199312	0.015	13.28746667	77.77777778
JFC NATO	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	9	100	6.566E-07	1.32458E-05	0.0000045	2.943511111	33.33333333
JFC NATO	TOTAL HPCDD	9	100	0.0000049	0.000064			
JFC NATO	TOTAL HPCDF	9	100	0.0000073	0.000078			
JFC NATO	TOTAL HXCDD	9	100	0.0000037	0.000033			
JFC NATO	TOTAL HXCDF	9	100	0.0000078	0.00017			
JFC NATO	TOTAL PECDD	9	100	0.0000026	0.000062			
JFC NATO	TOTAL PECDF	9	100	0.000018	0.00047			
JFC NATO	TOTAL TCDD	9	100	0.0000025	0.000048			
JFC NATO	TOTAL TCDF	9	100	0.000014	0.00035			
JFC NATO	Vanadium	9	100	25	38			
JFC NATO	Zinc	9	100	52	203			

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
JFC NATO	2-Butanone (methyl ethyl ketone)	9	11.11	0.00288	0.00288	28000	1.02857E-07	
JFC NATO	Acenaphthylene	9	22.22	0.0132	0.0156			
JFC NATO	Acetone	9	33.33	0.00638	0.0176	61000	2.88525E-07	
JFC NATO	Aluminum	9	100	13300	21600	77000	0.280519481	
JFC NATO	Anthracene	9	11.11	0.0144	0.0144	17000	8.47059E-07	
JFC NATO	Antimony	9	100	0.37	0.96	31	0.030967742	
JFC NATO	Aroclor 1260	9	66.67	0.00798	0.131			
JFC NATO	Arsenic	9	100	7.47	11	22	0.5	
JFC NATO	Barium	9	100	121	242	15000	0.016133333	
JFC NATO	Benzo(g,h,i)perylene	9	55.56	0.0354	0.12			
JFC NATO	Beryllium	9	100	1.7	2.8	160	0.0175	
JFC NATO	Bis(2-ethylhexyl)phthalate	9	55.56	0.109	0.212	1200	0.000176667	
JFC NATO	Cadmium (Food)	9	100	0.16	2	70	0.028571429	
JFC NATO	Chromium	9	100	2.6	40			
JFC NATO	Cobalt	9	100	2.8	4.5			
JFC NATO	Copper	9	100	12	138	3100	0.044516129	
JFC NATO	Cyanide	9	11.11	0.13	0.13	1600	0.00008125	
JFC NATO	Di-n-butylphthalate	9	11.11	0.0506	0.0506	6100	8.29508E-06	
JFC NATO	Fluoranthene	9	88.89	0.0216	0.206	2300	8.95652E-05	
JFC NATO	Iron	9	100	12800	20000	55000	0.363636364	
JFC NATO	Lead	9	100	22	101	400	0.2525	
JFC NATO	Manganese (food)	9	100	354	537			
JFC NATO	Mercury	9	55.56	0.11	0.16	6.7	0.023880597	
JFC NATO	Naphthalene	9	11.11	0.00625	0.00625	150	4.16667E-05	
JFC NATO	Nickel	9	100	2.5	5.1	1600	0.0031875	
JFC NATO	Phenanthrene	9	33.33	0.053	0.0953			
JFC NATO	Pyrene	9	77.78	0.025	0.167	1700	9.82353E-05	
JFC NATO	Selenium	9	100	0.081	0.25	390	0.000641026	
JFC NATO	Silver	9	77.78	0.15	0.83	390	0.002128205	
JFC NATO	Styrene	9	11.11	0.000341	0.000341	6500	5.24615E-08	
JFC NATO	Tin	9	100	1.9	4.2	47000	8.93617E-05	
JFC NATO	Toluene	9	33.33	0.00245	0.00358	5000	0.000000716	
JFC NATO	Total Carcinogenic PAHS (BaP TEQs)	9	88.89	0.000144	0.199312			
JFC NATO	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	9	100	6.566E-07	1.32458E-05	0.000072	0.183969444	
JFC NATO	TOTAL HPCDD	9	100	0.0000049	0.000064			
JFC NATO	TOTAL HPCDF	9	100	0.0000073	0.000078			
JFC NATO	TOTAL HXCDD	9	100	0.0000037	0.000033			
JFC NATO	TOTAL HXCDF	9	100	0.0000078	0.00017			
JFC NATO	TOTAL PECDD	9	100	0.0000026	0.000062			
JFC NATO	TOTAL PECDF	9	100	0.000018	0.00047			
JFC NATO	TOTAL TCDD	9	100	0.0000025	0.000048			
JFC NATO	TOTAL TCDF	9	100	0.000014	0.00035			
JFC NATO	Vanadium	9	100	25	38	550	0.069090909	
JFC NATO	Zinc	9	100	52	203	23000	0.008826087	

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
JFC NATO	2-Butanone (methyl ethyl ketone)	9	11.11	0.00288	0.00288			
JFC NATO	Acenaphthylene	9	22.22	0.0132	0.0156			
JFC NATO	Acetone	9	33.33	0.00638	0.0176			
JFC NATO	Aluminum	9	100	13300	21600	86900	0.248561565	
JFC NATO	Anthracene	9	11.11	0.0144	0.0144			
JFC NATO	Antimony	9	100	0.37	0.96	42.8	0.022429907	
JFC NATO	Aroclor 1260	9	66.67	0.00798	0.131			
JFC NATO	Arsenic	9	100	7.47	11	164	0.067073171	
JFC NATO	Barium	9	100	121	242	1813	0.133480419	
JFC NATO	Benzo(g,h,i)perylene	9	55.56	0.0354	0.12			
JFC NATO	Beryllium	9	100	1.7	2.8			
JFC NATO	Bis(2-ethylhexyl)phthalate	9	55.56	0.109	0.212			
JFC NATO	Cadmium (Food)	9	100	0.16	2	10.6	0.188679245	
JFC NATO	Chromium	9	100	2.6	40	579	0.069084629	
JFC NATO	Cobalt	9	100	2.8	4.5	36.6	0.12295082	
JFC NATO	Copper	9	100	12	138	3965	0.03480454	
JFC NATO	Cyanide	9	11.11	0.13	0.13			
JFC NATO	Di-n-butylphthalate	9	11.11	0.0506	0.0506			
JFC NATO	Fluoranthene	9	88.89	0.0216	0.206			
JFC NATO	Iron	9	100	12800	20000	154600	0.129366106	
JFC NATO	Lead	9	100	22	101	2052	0.049220273	
JFC NATO	Manganese (food)	9	100	354	537	5923	0.090663515	
JFC NATO	Mercury	9	55.56	0.11	0.16	2.66	0.060150376	
JFC NATO	Naphthalene	9	11.11	0.00625	0.00625			
JFC NATO	Nickel	9	100	2.5	5.1	689	0.007402032	
JFC NATO	Phenanthrene	9	33.33	0.053	0.0953			
JFC NATO	Pyrene	9	77.78	0.025	0.167			
JFC NATO	Selenium	9	100	0.081	0.25	1.9	0.131578947	
JFC NATO	Silver	9	77.78	0.15	0.83	8.132	0.102065912	
JFC NATO	Styrene	9	11.11	0.000341	0.000341			
JFC NATO	Tin	9	100	1.9	4.2			
JFC NATO	Toluene	9	33.33	0.00245	0.00358			
JFC NATO	Total Carcinogenic PAHS (BaP TEQs)	9	88.89	0.0000144	0.199312			
JFC NATO	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	9	100	6.566E-07	1.32458E-05			
JFC NATO	TOTAL HPCDD	9	100	0.0000049	0.000064			
JFC NATO	TOTAL HPCDF	9	100	0.0000073	0.000078			
JFC NATO	TOTAL HXCDD	9	100	0.0000037	0.000033			
JFC NATO	TOTAL HXCDF	9	100	0.0000078	0.00017			
JFC NATO	TOTAL PECDD	9	100	0.0000026	0.000062			
JFC NATO	TOTAL PECDF	9	100	0.000018	0.00047			
JFC NATO	TOTAL TCDD	9	100	0.0000025	0.000048			
JFC NATO	TOTAL TCDF	9	100	0.000014	0.00035			
JFC NATO	Vanadium	9	100	25	38	187	0.203208556	
JFC NATO	Zinc	9	100	52	203	3211	0.063220181	

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Cancer RSLs		
						Soil Cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	1,1'-Biphenyl	1	100	0.0199	0.0199			
US Consulate	1,2,4,5-Tetrachlorobenzene	1	100	0.0154	0.0154			
US Consulate	2-Methylnaphthalene	1	100	0.0195	0.0195			
US Consulate	4,4--DDE	1	100	0.0096	0.0096	1.4	0.006857143	
US Consulate	4,4-DDT	1	100	0.0102	0.0102	1.7	0.006	
US Consulate	Acenaphthylene	1	100	0.02415	0.02415			
US Consulate	Aluminum	1	100	25750	25750			
US Consulate	Anthracene	1	100	0.0197	0.0197			
US Consulate	Antimony	1	100	2.15	2.15			
US Consulate	Arsenic	1	100	10.35	10.35	0.39	26.53846154	100
US Consulate	Barium	1	100	357.5	357.5			
US Consulate	Benzo(g,h,i)perylene	1	100	0.1705	0.1705			
US Consulate	Beryllium	1	100	2.77	2.77	1400	0.001978571	
US Consulate	Bis(2-ethylhexyl)phthalate	1	100	0.4535	0.4535	35	0.012957143	
US Consulate	Cadmium (Food)	1	100	0.5	0.5	1800	0.000277778	
US Consulate	Carbazole	1	100	0.021	0.021	24	0.000875	
US Consulate	Chromium	1	100	14.3	14.3			
US Consulate	Cobalt	1	100	4.375	4.375			
US Consulate	Copper	1	100	62.75	62.75			
US Consulate	Di-n-butylphthalate	1	100	0.0502	0.0502			
US Consulate	Di-n-octylphthalate	1	100	0.43	0.43			
US Consulate	Endosulfan Sulfate	1	100	0.0125	0.0125			
US Consulate	Endrin	1	100	0.0252	0.0252			
US Consulate	Fluoranthene	1	100	0.2455	0.2455			
US Consulate	gamma-BHC (Lindane)	1	100	0.00105	0.00105	0.52	0.002019231	
US Consulate	Iron	1	100	19500	19500			
US Consulate	Lead	1	100	236	236			
US Consulate	Manganese (food)	1	100	540.5	540.5			
US Consulate	Mercury	1	100	0.516	0.516			
US Consulate	Naphthalene	1	100	0.01335	0.01335	3.9	0.003423077	
US Consulate	Nickel	1	100	7.27	7.27			
US Consulate	Phenanthrene	1	100	0.1085	0.1085			
US Consulate	Pyrene	1	100	0.227	0.227			
US Consulate	Selenium	1	100	0.114	0.114			
US Consulate	Silver	1	100	0.4865	0.4865			
US Consulate	Thallium	1	100	0.9085	0.9085			
US Consulate	Tin	1	100	9.97	9.97			
US Consulate	Total Carcinogenic PAHS (BaP TEQs)	1	100	0.258183	0.258183	0.015	17.2122	100
US Consulate	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	5.45165E-06	5.45165E-06	0.0000045	1.211477778	100
US Consulate	TOTAL HPCDD	1	100	0.0000785	0.0000785			
US Consulate	TOTAL HPCDF	1	100	0.00004	0.00004			
US Consulate	TOTAL HXCDD	1	100	0.0000245	0.0000245			
US Consulate	TOTAL HXCDF	1	100	0.000078	0.000078			
US Consulate	TOTAL PECDD	1	100	0.000016	0.000016			
US Consulate	TOTAL PECDF	1	100	0.00015	0.00015			
US Consulate	Total Solids	1	100	86.65	86.65			
US Consulate	TOTAL TCDD	1	100	0.0000105	0.0000105			
US Consulate	TOTAL TCDF	1	100	0.000062	0.000062			
US Consulate	Vanadium	1	100	37.15	37.15			
US Consulate	Zinc	1	100	171.5	171.5			

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Soil Non-cancer RSLs		
						Soil Non-cancer RSLs	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	1,1'-Biphenyl	1	100	0.0199	0.0199	3900	5.10256E-06	
US Consulate	1,2,4,5-Tetrachlorobenzene	1	100	0.0154	0.0154	18	0.000855556	
US Consulate	2-Methylnaphthalene	1	100	0.0195	0.0195	310	6.29032E-05	
US Consulate	4,4--DDE	1	100	0.0096	0.0096			
US Consulate	4,4-DDT	1	100	0.0102	0.0102	36	0.000283333	
US Consulate	Acenaphthylene	1	100	0.02415	0.02415			
US Consulate	Aluminum	1	100	25750	25750	77000	0.334415584	
US Consulate	Anthracene	1	100	0.0197	0.0197	17000	1.15882E-06	
US Consulate	Antimony	1	100	2.15	2.15	31	0.069354839	
US Consulate	Arsenic	1	100	10.35	10.35	22	0.470454545	
US Consulate	Barium	1	100	357.5	357.5	15000	0.023833333	
US Consulate	Benzo(g,h,i)perylene	1	100	0.1705	0.1705			
US Consulate	Beryllium	1	100	2.77	2.77	160	0.0173125	
US Consulate	Bis(2-ethylhexyl)phthalate	1	100	0.4535	0.4535	1200	0.000377917	
US Consulate	Cadmium (Food)	1	100	0.5	0.5	70	0.007142857	
US Consulate	Carbazole	1	100	0.021	0.021			
US Consulate	Chromium	1	100	14.3	14.3			
US Consulate	Cobalt	1	100	4.375	4.375			
US Consulate	Copper	1	100	62.75	62.75	3100	0.020241935	
US Consulate	Di-n-butylphthalate	1	100	0.0502	0.0502	6100	8.22951E-06	
US Consulate	Di-n-octylphthalate	1	100	0.43	0.43			
US Consulate	Endosulfan Sulfate	1	100	0.0125	0.0125			
US Consulate	Endrin	1	100	0.0252	0.0252	18	0.0014	
US Consulate	Fluoranthene	1	100	0.2455	0.2455	2300	0.000106739	
US Consulate	gamma-BHC (Lindane)	1	100	0.00105	0.00105	21	0.00005	
US Consulate	Iron	1	100	19500	19500	55000	0.354545455	
US Consulate	Lead	1	100	236	236	400	0.59	
US Consulate	Manganese (food)	1	100	540.5	540.5			
US Consulate	Mercury	1	100	0.516	0.516	6.7	0.077014925	
US Consulate	Naphthalene	1	100	0.01335	0.01335	150	0.000089	
US Consulate	Nickel	1	100	7.27	7.27	1600	0.00454375	
US Consulate	Phenanthrene	1	100	0.1085	0.1085			
US Consulate	Pyrene	1	100	0.227	0.227	1700	0.000133529	
US Consulate	Selenium	1	100	0.114	0.114	390	0.000292308	
US Consulate	Silver	1	100	0.4865	0.4865	390	0.001247436	
US Consulate	Thallium	1	100	0.9085	0.9085	5.1	0.178137255	
US Consulate	Tin	1	100	9.97	9.97	47000	0.000212128	
US Consulate	Total Carcinogenic PAHS (BaP TEQs)	1	100	0.258183	0.258183			
US Consulate	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	5.45165E-06	5.45165E-06	0.000072	0.075717361	
US Consulate	TOTAL HPCDD	1	100	0.0000785	0.0000785			
US Consulate	TOTAL HPCDF	1	100	0.00004	0.00004			
US Consulate	TOTAL HXCDD	1	100	0.0000245	0.0000245			
US Consulate	TOTAL HXCDF	1	100	0.000078	0.000078			
US Consulate	TOTAL PECDD	1	100	0.000016	0.000016			
US Consulate	TOTAL PECDF	1	100	0.00015	0.00015			
US Consulate	Total Solids	1	100	86.65	86.65			
US Consulate	TOTAL TCDD	1	100	0.0000105	0.0000105			
US Consulate	TOTAL TCDF	1	100	0.000062	0.000062			
US Consulate	Vanadium	1	100	37.15	37.15	550	0.067545455	
US Consulate	Zinc	1	100	171.5	171.5	23000	0.007456522	

Table D-1
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Soil (mg/kg) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Naples Maximum Soil Background Concentration		
						Naples Maximum Soil Background Concentration	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	1,1'-Biphenyl	1	100	0.0199	0.0199			
US Consulate	1,2,4,5-Tetrachlorobenzene	1	100	0.0154	0.0154			
US Consulate	2-Methylnaphthalene	1	100	0.0195	0.0195			
US Consulate	4,4--DDE	1	100	0.0096	0.0096			
US Consulate	4,4-DDT	1	100	0.0102	0.0102			
US Consulate	Acenaphthylene	1	100	0.02415	0.02415			
US Consulate	Aluminum	1	100	25750	25750	86900	0.296317606	
US Consulate	Anthracene	1	100	0.0197	0.0197			
US Consulate	Antimony	1	100	2.15	2.15	42.8	0.050233645	
US Consulate	Arsenic	1	100	10.35	10.35	164	0.063109756	
US Consulate	Barium	1	100	357.5	357.5	1813	0.197186983	
US Consulate	Benzo(g,h,i)perylene	1	100	0.1705	0.1705			
US Consulate	Beryllium	1	100	2.77	2.77			
US Consulate	Bis(2-ethylhexyl)phthalate	1	100	0.4535	0.4535			
US Consulate	Cadmium (Food)	1	100	0.5	0.5	10.6	0.047169811	
US Consulate	Carbazole	1	100	0.021	0.021			
US Consulate	Chromium	1	100	14.3	14.3	579	0.024697755	
US Consulate	Cobalt	1	100	4.375	4.375	36.6	0.119535519	
US Consulate	Copper	1	100	62.75	62.75	3965	0.015825977	
US Consulate	Di-n-butylphthalate	1	100	0.0502	0.0502			
US Consulate	Di-n-octylphthalate	1	100	0.43	0.43			
US Consulate	Endosulfan Sulfate	1	100	0.0125	0.0125			
US Consulate	Endrin	1	100	0.0252	0.0252			
US Consulate	Fluoranthene	1	100	0.2455	0.2455			
US Consulate	gamma-BHC (Lindane)	1	100	0.00105	0.00105			
US Consulate	Iron	1	100	19500	19500	154600	0.126131953	
US Consulate	Lead	1	100	236	236	2052	0.115009747	
US Consulate	Manganese (food)	1	100	540.5	540.5	5923	0.091254432	
US Consulate	Mercury	1	100	0.516	0.516	2.66	0.193984962	
US Consulate	Naphthalene	1	100	0.01335	0.01335			
US Consulate	Nickel	1	100	7.27	7.27	689	0.010551524	
US Consulate	Phenanthrene	1	100	0.1085	0.1085			
US Consulate	Pyrene	1	100	0.227	0.227			
US Consulate	Selenium	1	100	0.114	0.114	1.9	0.06	
US Consulate	Silver	1	100	0.4865	0.4865	8.132	0.059825381	
US Consulate	Thallium	1	100	0.9085	0.9085	69	0.013166667	
US Consulate	Tin	1	100	9.97	9.97			
US Consulate	Total Carcinogenic PAHS (BaP TEQs)	1	100	0.258183	0.258183			
US Consulate	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	5.45165E-06	5.45165E-06			
US Consulate	TOTAL HPCDD	1	100	0.0000785	0.0000785			
US Consulate	TOTAL HPCDF	1	100	0.00004	0.00004			
US Consulate	TOTAL HXCDD	1	100	0.0000245	0.0000245			
US Consulate	TOTAL HXCDF	1	100	0.000078	0.000078			
US Consulate	TOTAL PECDD	1	100	0.000016	0.000016			
US Consulate	TOTAL PECDF	1	100	0.00015	0.00015			
US Consulate	Total Solids	1	100	86.65	86.65			
US Consulate	TOTAL TCDD	1	100	0.0000105	0.0000105			
US Consulate	TOTAL TCDF	1	100	0.000062	0.000062			
US Consulate	Vanadium	1	100	37.15	37.15	187	0.198663102	
US Consulate	Zinc	1	100	171.5	171.5	3211	0.053410153	

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Acetone	10	60	0.00101	0.00174			
Capodichino	Aluminum	10	70	0.00247	0.0205			
Capodichino	Antimony	10	10	0.000178	0.000178			
Capodichino	Arsenic	10	100	0.00057	0.000868	0.000045	19.28888889	100
Capodichino	Barium	10	100	0.00393	0.00615			
Capodichino	Beryllium	10	10	0.0000307	0.0000307			
Capodichino	Bromodichloromethane	10	80	0.000141	0.000855	0.0011	0.777272727	
Capodichino	Bromoform	10	100	0.000464	0.00183	0.0085	0.215294118	
Capodichino	Cadmium (Water)	10	30	0.0000483	0.0000562			
Capodichino	Chloride	10	100	17.6	21.9			
Capodichino	Chlorine (as Cl2)	10	100	0.07	0.7			
Capodichino	Chloroform	10	60	0.0000922	0.00046	0.00019	2.421052632	20
Capodichino	Chromium	10	60	0.000167	0.000332			
Capodichino	Cobalt	10	100	0.0000362	0.000286			
Capodichino	Copper	10	100	0.0344	0.272			
Capodichino	Dibromochloromethane	10	100	0.000306	0.00197	0.0008	2.4625	10
Capodichino	Di-n-octylphthalate	10	10	0.000319	0.000319			
Capodichino	Dissolved Oxygen	10	100	0.963	9.45			
Capodichino	Fecal Streptococcus	10	100					
Capodichino	Heterotrophic plate count	10	100		12			
Capodichino	Iron	10	90	0.017	0.989			
Capodichino	Lead	10	90	0.000299	0.0108			
Capodichino	Manganese (nonfood)	10	100	0.000573	0.0257			
Capodichino	Mercury	10	100	0.000082	0.000302			
Capodichino	Nickel	10	100	0.00104	0.0424			
Capodichino	Nitrate (measured as NO3-)	10	100	0.88	1.35			
Capodichino	Oxidation Reduction Potential	10	100	7.06	677			
Capodichino	Ph	10	100	7.1	7.88			
Capodichino	Salinity	10	100					
Capodichino	Selenium	10	10	0.000524	0.000524			
Capodichino	Specific Conductance	10	100	0.26	0.3			
Capodichino	Sulfate	10	100	2.89	4.09			
Capodichino	Temperature	10	100	19.1	24.9			
Capodichino	Thallium	10	20	0.000236	0.00163			
Capodichino	Tin	10	20	0.000158	0.000664			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	60	9.88E-11	3.6E-10	5.2E-10	0.692307692	
Capodichino	TOTAL HPCDD	10	20	2.7E-09	3.5E-09			
Capodichino	TOTAL HPCDF	10	20	0.000000002	3.1E-09			
Capodichino	TOTAL HXCDF	10	10	0.000000011	0.000000011			
Capodichino	TOTAL PECDF	10	20	6.8E-10	9.5E-10			
Capodichino	TOTAL TCDD	10	10	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	10	20	5.4E-10	6.9E-10			
Capodichino	Total Trihalomethanes	10	100	0.001083	0.005115			
Capodichino	Turbidity	2	100	4	4			
Capodichino	Uranium	10	100	0.000252	0.000538			
Capodichino	Zinc	10	100	0.0287	0.277			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Acetone	10	60	0.00101	0.00174	22	7.90909E-05	
Capodichino	Aluminum	10	70	0.00247	0.0205	37	0.000554054	
Capodichino	Antimony	10	10	0.000178	0.000178	0.015	0.011866667	
Capodichino	Arsenic	10	100	0.00057	0.000868	0.011	0.078909091	
Capodichino	Barium	10	100	0.00393	0.00615	7.3	0.000842466	
Capodichino	Beryllium	10	10	0.0000307	0.0000307	0.073	0.000420548	
Capodichino	Bromodichloromethane	10	80	0.000141	0.000855	0.73	0.001171233	
Capodichino	Bromoform	10	100	0.000464	0.00183	0.73	0.002506849	
Capodichino	Cadmium (Water)	10	30	0.0000483	0.0000562	0.018	0.003122222	
Capodichino	Chloride	10	100	17.6	21.9			
Capodichino	Chlorine (as Cl2)	10	100	0.07	0.7			
Capodichino	Chloroform	10	60	0.0000922	0.00046	0.13	0.003538462	
Capodichino	Chromium	10	60	0.000167	0.000332			
Capodichino	Cobalt	10	100	0.0000362	0.000286			
Capodichino	Copper	10	100	0.0344	0.272	1.5	0.181333333	
Capodichino	Dibromochloromethane	10	100	0.000306	0.00197	0.73	0.00269863	
Capodichino	Di-n-octylphthalate	10	10	0.000319	0.000319			
Capodichino	Dissolved Oxygen	10	100	0.963	9.45			
Capodichino	Fecal Streptococcus	10	100					
Capodichino	Heterotrophic plate count	10	100		12			
Capodichino	Iron	10	90	0.017	0.989	26	0.038038462	
Capodichino	Lead	10	90	0.000299	0.0108	0.02	0.54	
Capodichino	Manganese (nonfood)	10	100	0.000573	0.0257	0.88	0.029204545	
Capodichino	Mercury	10	100	0.000082	0.000302	0.00063	0.479365079	
Capodichino	Nickel	10	100	0.00104	0.0424	0.73	0.058082192	
Capodichino	Nitrate (measured as NO3-)	10	100	0.88	1.35	255.2	0.005289969	
Capodichino	Oxidation Reduction Potential	10	100	7.06	677			
Capodichino	Ph	10	100	7.1	7.88			
Capodichino	Salinity	10	100					
Capodichino	Selenium	10	10	0.000524	0.000524	0.18	0.002911111	
Capodichino	Specific Conductance	10	100	0.26	0.3			
Capodichino	Sulfate	10	100	2.89	4.09			
Capodichino	Temperature	10	100	19.1	24.9			
Capodichino	Thallium	10	20	0.000236	0.00163	0.0024	0.679166667	
Capodichino	Tin	10	20	0.000158	0.000664	22	3.01818E-05	
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	60	9.88E-11	3.6E-10	0.000000037	0.00972973	
Capodichino	TOTAL HPCDD	10	20	2.7E-09	3.5E-09			
Capodichino	TOTAL HPCDF	10	20	0.000000002	3.1E-09			
Capodichino	TOTAL HXCDF	10	10	0.000000011	0.000000011			
Capodichino	TOTAL PECDF	10	20	6.8E-10	9.5E-10			
Capodichino	TOTAL TCDD	10	10	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	10	20	5.4E-10	6.9E-10			
Capodichino	Total Trihalomethanes	10	100	0.001083	0.005115			
Capodichino	Turbidity	2	100	4	4			
Capodichino	Uranium	10	100	0.000252	0.000538	0.11	0.004890909	
Capodichino	Zinc	10	100	0.0287	0.277	11	0.025181818	

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Acetone	10	60	0.00101	0.00174			
Capodichino	Aluminum	10	70	0.00247	0.0205			
Capodichino	Antimony	10	10	0.000178	0.000178			
Capodichino	Arsenic	10	100	0.00057	0.000868			
Capodichino	Barium	10	100	0.00393	0.00615			
Capodichino	Beryllium	10	10	0.0000307	0.0000307			
Capodichino	Bromodichloromethane	10	80	0.000141	0.000855			
Capodichino	Bromoform	10	100	0.000464	0.00183			
Capodichino	Cadmium (Water)	10	30	0.0000483	0.0000562			
Capodichino	Chloride	10	100	17.6	21.9			
Capodichino	Chlorine (as Cl2)	10	100	0.07	0.7			
Capodichino	Chloroform	10	60	0.0000922	0.00046	0.00021	2.19047619	20
Capodichino	Chromium	10	60	0.000167	0.000332			
Capodichino	Cobalt	10	100	0.0000362	0.000286			
Capodichino	Copper	10	100	0.0344	0.272			
Capodichino	Dibromochloromethane	10	100	0.000306	0.00197			
Capodichino	Di-n-octylphthalate	10	10	0.000319	0.000319			
Capodichino	Dissolved Oxygen	10	100	0.963	9.45			
Capodichino	Fecal Streptococcus	10	100					
Capodichino	Heterotrophic plate count	10	100		12			
Capodichino	Iron	10	90	0.017	0.989			
Capodichino	Lead	10	90	0.000299	0.0108			
Capodichino	Manganese (nonfood)	10	100	0.000573	0.0257			
Capodichino	Mercury	10	100	0.000082	0.000302			
Capodichino	Nickel	10	100	0.00104	0.0424			
Capodichino	Nitrate (measured as NO3-)	10	100	0.88	1.35			
Capodichino	Oxidation Reduction Potential	10	100	7.06	677			
Capodichino	Ph	10	100	7.1	7.88			
Capodichino	Salinity	10	100					
Capodichino	Selenium	10	10	0.000524	0.000524			
Capodichino	Specific Conductance	10	100	0.26	0.3			
Capodichino	Sulfate	10	100	2.89	4.09			
Capodichino	Temperature	10	100	19.1	24.9			
Capodichino	Thallium	10	20	0.000236	0.00163			
Capodichino	Tin	10	20	0.000158	0.000664			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	60	9.88E-11	3.6E-10			
Capodichino	TOTAL HPCDD	10	20	2.7E-09	3.5E-09			
Capodichino	TOTAL HPCDF	10	20	0.000000002	3.1E-09			
Capodichino	TOTAL HXCDF	10	10	0.000000011	0.000000011			
Capodichino	TOTAL PECDF	10	20	6.8E-10	9.5E-10			
Capodichino	TOTAL TCDD	10	10	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	10	20	5.4E-10	6.9E-10			
Capodichino	Total Trihalomethanes	10	100	0.001083	0.005115			
Capodichino	Turbidity	2	100	4	4			
Capodichino	Uranium	10	100	0.000252	0.000538			
Capodichino	Zinc	10	100	0.0287	0.277			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Acetone	10	60	0.00101	0.00174	64	2.71875E-05	
Capodichino	Aluminum	10	70	0.00247	0.0205			
Capodichino	Antimony	10	10	0.000178	0.000178			
Capodichino	Arsenic	10	100	0.00057	0.000868			
Capodichino	Barium	10	100	0.00393	0.00615			
Capodichino	Beryllium	10	10	0.0000307	0.0000307			
Capodichino	Bromodichloromethane	10	80	0.000141	0.000855			
Capodichino	Bromoform	10	100	0.000464	0.00183			
Capodichino	Cadmium (Water)	10	30	0.0000483	0.0000562			
Capodichino	Chloride	10	100	17.6	21.9			
Capodichino	Chlorine (as Cl2)	10	100	0.07	0.7			
Capodichino	Chloroform	10	60	0.0000922	0.00046	0.2	0.0023	
Capodichino	Chromium	10	60	0.000167	0.000332			
Capodichino	Cobalt	10	100	0.0000362	0.000286			
Capodichino	Copper	10	100	0.0344	0.272			
Capodichino	Dibromochloromethane	10	100	0.000306	0.00197			
Capodichino	Di-n-octylphthalate	10	10	0.000319	0.000319			
Capodichino	Dissolved Oxygen	10	100	0.963	9.45			
Capodichino	Fecal Steptococcus	10	100					
Capodichino	Heterotrophic plate count	10	100		12			
Capodichino	Iron	10	90	0.017	0.989			
Capodichino	Lead	10	90	0.000299	0.0108			
Capodichino	Manganese (nonfood)	10	100	0.000573	0.0257			
Capodichino	Mercury	10	100	0.000082	0.000302	0.00063	0.479365079	
Capodichino	Nickel	10	100	0.00104	0.0424			
Capodichino	Nitrate (measured as NO3-)	10	100	0.88	1.35			
Capodichino	Oxidation Reduction Potential	10	100	7.06	677			
Capodichino	Ph	10	100	7.1	7.88			
Capodichino	Salinity	10	100					
Capodichino	Selenium	10	10	0.000524	0.000524			
Capodichino	Specific Conductance	10	100	0.26	0.3			
Capodichino	Sulfate	10	100	2.89	4.09			
Capodichino	Temperature	10	100	19.1	24.9			
Capodichino	Thallium	10	20	0.000236	0.00163			
Capodichino	Tin	10	20	0.000158	0.000664			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	60	9.88E-11	3.6E-10			
Capodichino	TOTAL HPCDD	10	20	2.7E-09	3.5E-09			
Capodichino	TOTAL HPCDF	10	20	0.000000002	3.1E-09			
Capodichino	TOTAL HXCDF	10	10	0.000000011	0.000000011			
Capodichino	TOTAL PECDF	10	20	6.8E-10	9.5E-10			
Capodichino	TOTAL TCDD	10	10	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	10	20	5.4E-10	6.9E-10			
Capodichino	Total Trihalomethanes	10	100	0.001083	0.005115			
Capodichino	Turbidity	2	100	4	4			
Capodichino	Uranium	10	100	0.000252	0.000538			
Capodichino	Zinc	10	100	0.0287	0.277			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Acetone	10	60	0.00101	0.00174			
Capodichino	Aluminum	10	70	0.00247	0.0205			
Capodichino	Antimony	10	10	0.000178	0.000178	0.006	0.029666667	
Capodichino	Arsenic	10	100	0.00057	0.000868	0.01	0.0868	
Capodichino	Barium	10	100	0.00393	0.00615	2	0.003075	
Capodichino	Beryllium	10	10	0.0000307	0.0000307	0.004	0.007675	
Capodichino	Bromodichloromethane	10	80	0.000141	0.000855			
Capodichino	Bromoform	10	100	0.000464	0.00183			
Capodichino	Cadmium (Water)	10	30	0.0000483	0.0000562	0.005	0.01124	
Capodichino	Chloride	10	100	17.6	21.9			
Capodichino	Chlorine (as Cl2)	10	100	0.07	0.7	4.01	0.174563591	
Capodichino	Chloroform	10	60	0.0000922	0.00046			
Capodichino	Chromium	10	60	0.000167	0.000332	0.1	0.00332	
Capodichino	Cobalt	10	100	0.0000362	0.000286			
Capodichino	Copper	10	100	0.0344	0.272			
Capodichino	Dibromochloromethane	10	100	0.000306	0.00197			
Capodichino	Di-n-octylphthalate	10	10	0.000319	0.000319			
Capodichino	Dissolved Oxygen	10	100	0.963	9.45			
Capodichino	Fecal Streptococcus	10	100					
Capodichino	Heterotrophic plate count	10	100		12			
Capodichino	Iron	10	90	0.017	0.989			
Capodichino	Lead	10	90	0.000299	0.0108			
Capodichino	Manganese (nonfood)	10	100	0.000573	0.0257			
Capodichino	Mercury	10	100	0.000082	0.000302	0.002	0.151	
Capodichino	Nickel	10	100	0.00104	0.0424			
Capodichino	Nitrate (measured as NO3-)	10	100	0.88	1.35	44.3	0.030474041	
Capodichino	Oxidation Reduction Potential	10	100	7.06	677			
Capodichino	Ph	10	100	7.1	7.88			
Capodichino	Salinity	10	100					
Capodichino	Selenium	10	10	0.000524	0.000524	0.05	0.01048	
Capodichino	Specific Conductance	10	100	0.26	0.3			
Capodichino	Sulfate	10	100	2.89	4.09			
Capodichino	Temperature	10	100	19.1	24.9			
Capodichino	Thallium	10	20	0.000236	0.00163	0.002	0.815	
Capodichino	Tin	10	20	0.000158	0.000664			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	60	9.88E-11	3.6E-10	0.00000003	0.012	
Capodichino	TOTAL HPCDD	10	20	2.7E-09	3.5E-09			
Capodichino	TOTAL HPCDF	10	20	0.000000002	3.1E-09			
Capodichino	TOTAL HXCDF	10	10	0.000000011	0.000000011			
Capodichino	TOTAL PECDF	10	20	6.8E-10	9.5E-10			
Capodichino	TOTAL TCDD	10	10	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	10	20	5.4E-10	6.9E-10			
Capodichino	Total Trihalomethanes	10	100	0.001083	0.005115	0.0807	0.0633829	
Capodichino	Turbidity	2	100	4	4			
Capodichino	Uranium	10	100	0.000252	0.000538	0.03	0.017933333	
Capodichino	Zinc	10	100	0.0287	0.277			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	3	66.67	0.0041	0.00423			
Carney Park	Antimony	3	66.67	0.000176	0.00027			
Carney Park	Arsenic	3	100	0.00293	0.00451	0.000045	100.2222222	100
Carney Park	Barium	3	100	0.0134	0.0444			
Carney Park	Bromodichloromethane	3	100	0.00131	0.00228	0.0011	2.072727273	100
Carney Park	Bromoform	3	100	0.00482	0.00706	0.0085	0.830588235	
Carney Park	Cadmium (Water)	3	33.33	0.000101	0.000101			
Carney Park	Chloride	3	100	19.5	30.4			
Carney Park	Chlorine (as Cl2)	3	100	0.54	0.66			
Carney Park	Chloroform	3	100	0.00065	0.00083	0.00019	4.368421053	100
Carney Park	Chromium	3	66.67	0.000228	0.00093			
Carney Park	cis-1,2-dichloroethene	3	66.67	0.000213	0.000224			
Carney Park	Cobalt	3	100	0.000054	0.00415			
Carney Park	Copper	3	100	0.229	0.874			
Carney Park	Dibromochloromethane	3	100	0.00366	0.00572	0.0008	7.15	100
Carney Park	Dissolved Oxygen	3	100	8.74	9.73			
Carney Park	Fecal Streptococcus	3	100					
Carney Park	Fluoride	3	100	0.348	0.376			
Carney Park	Heterotrophic plate count	3	100	1	1			
Carney Park	Iron	3	100	0.0125	0.0517			
Carney Park	Lead	3	100	0.00054	0.00106			
Carney Park	Manganese (nonfood)	3	100	0.00295	0.018			
Carney Park	Mercury	3	100	0.000036	0.000065			
Carney Park	Nickel	3	100	0.00178	0.487			
Carney Park	Nitrate (measured as NO3-)	3	100	16.8	17.1			
Carney Park	Oxidation Reduction Potential	3	100	617	680			
Carney Park	Ph	3	100	7.37	7.81			
Carney Park	Salinity	3	100					
Carney Park	Selenium	3	100	0.000279	0.000418			
Carney Park	Specific Conductance	3	100	0.78	0.82			
Carney Park	Sulfate	3	100	28.1	29.2			
Carney Park	Temperature	3	100	22.5	24.7			
Carney Park	Tetrachloroethene	3	66.67	0.000113	0.00013	0.00011	1.181818182	66.6666667
Carney Park	TOTAL HPCDD	3	100	1.7E-09	0.000000002			
Carney Park	TOTAL HPCDF	3	100	2.2E-09	3.2E-09			
Carney Park	TOTAL HXCDD	3	33.33	5.6E-10	5.6E-10			
Carney Park	TOTAL HXCDF	3	33.33	1.1E-09	1.1E-09			
Carney Park	TOTAL PECDD	3	33.33	4.2E-10	4.2E-10			
Carney Park	TOTAL PECDF	3	66.67	7.5E-10	8.3E-10			
Carney Park	TOTAL TCDF	3	66.67	5.8E-10	7.5E-10			
Carney Park	Total Trihalomethanes	3	100	0.01079	0.01589			
Carney Park	Trichloroethene	3	100	0.000402	0.00044	0.0017	0.258823529	
Carney Park	Uranium	3	100	0.0023	0.00501			
Carney Park	Vanadium	3	100	0.00222	0.00489			
Carney Park	Zinc	3	100	0.0949	0.503			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	3	66.67	0.0041	0.00423	37	0.000114324	
Carney Park	Antimony	3	66.67	0.000176	0.00027	0.015	0.018	
Carney Park	Arsenic	3	100	0.00293	0.00451	0.011	0.41	
Carney Park	Barium	3	100	0.0134	0.0444	7.3	0.006082192	
Carney Park	Bromodichloromethane	3	100	0.00131	0.00228	0.73	0.003123288	
Carney Park	Bromoform	3	100	0.00482	0.00706	0.73	0.009671233	
Carney Park	Cadmium (Water)	3	33.33	0.000101	0.000101	0.018	0.005611111	
Carney Park	Chloride	3	100	19.5	30.4			
Carney Park	Chlorine (as Cl2)	3	100	0.54	0.66			
Carney Park	Chloroform	3	100	0.00065	0.00083	0.13	0.006384615	
Carney Park	Chromium	3	66.67	0.000228	0.00093			
Carney Park	cis-1,2-dichloroethene	3	66.67	0.000213	0.000224	0.37	0.000605405	
Carney Park	Cobalt	3	100	0.000054	0.00415			
Carney Park	Copper	3	100	0.229	0.874	1.5	0.582666667	
Carney Park	Dibromochloromethane	3	100	0.00366	0.00572	0.73	0.007835616	
Carney Park	Dissolved Oxygen	3	100	8.74	9.73			
Carney Park	Fecal Streptococcus	3	100					
Carney Park	Fluoride	3	100	0.348	0.376			
Carney Park	Heterotrophic plate count	3	100	1	1			
Carney Park	Iron	3	100	0.0125	0.0517	26	0.001988462	
Carney Park	Lead	3	100	0.00054	0.00106	0.02	0.053	
Carney Park	Manganese (nonfood)	3	100	0.00295	0.018	0.88	0.020454545	
Carney Park	Mercury	3	100	0.000036	0.000065	0.00063	0.103174603	
Carney Park	Nickel	3	100	0.00178	0.487	0.73	0.667123288	
Carney Park	Nitrate (measured as NO3-)	3	100	16.8	17.1	255.2	0.06700627	
Carney Park	Oxidation Reduction Potential	3	100	617	680			
Carney Park	Ph	3	100	7.37	7.81			
Carney Park	Salinity	3	100					
Carney Park	Selenium	3	100	0.000279	0.000418	0.18	0.002322222	
Carney Park	Specific Conductance	3	100	0.78	0.82			
Carney Park	Sulfate	3	100	28.1	29.2			
Carney Park	Temperature	3	100	22.5	24.7			
Carney Park	Tetrachloroethene	3	66.67	0.000113	0.00013	0.22	0.000590909	
Carney Park	TOTAL HPCDD	3	100	1.7E-09	0.000000002			
Carney Park	TOTAL HPCDF	3	100	2.2E-09	3.2E-09			
Carney Park	TOTAL HXCDD	3	33.33	5.6E-10	5.6E-10			
Carney Park	TOTAL HXCDF	3	33.33	1.1E-09	1.1E-09			
Carney Park	TOTAL PECDD	3	33.33	4.2E-10	4.2E-10			
Carney Park	TOTAL PECDF	3	66.67	7.5E-10	8.3E-10			
Carney Park	TOTAL TCDF	3	66.67	5.8E-10	7.5E-10			
Carney Park	Total Trihalomethanes	3	100	0.01079	0.01589			
Carney Park	Trichloroethene	3	100	0.000402	0.00044			
Carney Park	Uranium	3	100	0.0023	0.00501	0.11	0.045545455	
Carney Park	Vanadium	3	100	0.00222	0.00489	0.26	0.018807692	
Carney Park	Zinc	3	100	0.0949	0.503	11	0.045727273	

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	3	66.67	0.0041	0.00423			
Carney Park	Antimony	3	66.67	0.000176	0.00027			
Carney Park	Arsenic	3	100	0.00293	0.00451			
Carney Park	Barium	3	100	0.0134	0.0444			
Carney Park	Bromodichloromethane	3	100	0.00131	0.00228			
Carney Park	Bromoform	3	100	0.00482	0.00706			
Carney Park	Cadmium (Water)	3	33.33	0.000101	0.000101			
Carney Park	Chloride	3	100	19.5	30.4			
Carney Park	Chlorine (as Cl2)	3	100	0.54	0.66			
Carney Park	Chloroform	3	100	0.00065	0.00083	0.00021	3.952380952	100
Carney Park	Chromium	3	66.67	0.000228	0.00093			
Carney Park	cis-1,2-dichloroethene	3	66.67	0.000213	0.000224			
Carney Park	Cobalt	3	100	0.000054	0.00415			
Carney Park	Copper	3	100	0.229	0.874			
Carney Park	Dibromochloromethane	3	100	0.00366	0.00572			
Carney Park	Dissolved Oxygen	3	100	8.74	9.73			
Carney Park	Fecal Streptococcus	3	100					
Carney Park	Fluoride	3	100	0.348	0.376			
Carney Park	Heterotrophic plate count	3	100	1	1			
Carney Park	Iron	3	100	0.0125	0.0517			
Carney Park	Lead	3	100	0.00054	0.00106			
Carney Park	Manganese (nonfood)	3	100	0.00295	0.018			
Carney Park	Mercury	3	100	0.000036	0.000065			
Carney Park	Nickel	3	100	0.00178	0.487			
Carney Park	Nitrate (measured as NO3-)	3	100	16.8	17.1			
Carney Park	Oxidation Reduction Potential	3	100	617	680			
Carney Park	Ph	3	100	7.37	7.81			
Carney Park	Salinity	3	100					
Carney Park	Selenium	3	100	0.000279	0.000418			
Carney Park	Specific Conductance	3	100	0.78	0.82			
Carney Park	Sulfate	3	100	28.1	29.2			
Carney Park	Temperature	3	100	22.5	24.7			
Carney Park	Tetrachloroethene	3	66.67	0.000113	0.00013	0.00082	0.158536585	
Carney Park	TOTAL HPCDD	3	100	1.7E-09	0.000000002			
Carney Park	TOTAL HPCDF	3	100	2.2E-09	3.2E-09			
Carney Park	TOTAL HXCDD	3	33.33	5.6E-10	5.6E-10			
Carney Park	TOTAL HXCDF	3	33.33	1.1E-09	1.1E-09			
Carney Park	TOTAL PECDD	3	33.33	4.2E-10	4.2E-10			
Carney Park	TOTAL PECDF	3	66.67	7.5E-10	8.3E-10			
Carney Park	TOTAL TCDF	3	66.67	5.8E-10	7.5E-10			
Carney Park	Total Trihalomethanes	3	100	0.01079	0.01589			
Carney Park	Trichloroethene	3	100	0.000402	0.00044	0.0024	0.183333333	
Carney Park	Uranium	3	100	0.0023	0.00501			
Carney Park	Vanadium	3	100	0.00222	0.00489			
Carney Park	Zinc	3	100	0.0949	0.503			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	3	66.67	0.0041	0.00423			
Carney Park	Antimony	3	66.67	0.000176	0.00027			
Carney Park	Arsenic	3	100	0.00293	0.00451			
Carney Park	Barium	3	100	0.0134	0.0444			
Carney Park	Bromodichloromethane	3	100	0.00131	0.00228			
Carney Park	Bromoform	3	100	0.00482	0.00706			
Carney Park	Cadmium (Water)	3	33.33	0.000101	0.000101			
Carney Park	Chloride	3	100	19.5	30.4			
Carney Park	Chlorine (as Cl2)	3	100	0.54	0.66			
Carney Park	Chloroform	3	100	0.00065	0.00083	0.2	0.00415	
Carney Park	Chromium	3	66.67	0.000228	0.00093			
Carney Park	cis-1,2-dichloroethene	3	66.67	0.000213	0.000224			
Carney Park	Cobalt	3	100	0.000054	0.00415			
Carney Park	Copper	3	100	0.229	0.874			
Carney Park	Dibromochloromethane	3	100	0.00366	0.00572			
Carney Park	Dissolved Oxygen	3	100	8.74	9.73			
Carney Park	Fecal Streptococcus	3	100					
Carney Park	Fluoride	3	100	0.348	0.376			
Carney Park	Heterotrophic plate count	3	100	1	1			
Carney Park	Iron	3	100	0.0125	0.0517			
Carney Park	Lead	3	100	0.00054	0.00106			
Carney Park	Manganese (nonfood)	3	100	0.00295	0.018			
Carney Park	Mercury	3	100	0.000036	0.000065	0.00063	0.103174603	
Carney Park	Nickel	3	100	0.00178	0.487			
Carney Park	Nitrate (measured as NO3-)	3	100	16.8	17.1			
Carney Park	Oxidation Reduction Potential	3	100	617	680			
Carney Park	Ph	3	100	7.37	7.81			
Carney Park	Salinity	3	100					
Carney Park	Selenium	3	100	0.000279	0.000418			
Carney Park	Specific Conductance	3	100	0.78	0.82			
Carney Park	Sulfate	3	100	28.1	29.2			
Carney Park	Temperature	3	100	22.5	24.7			
Carney Park	Tetrachloroethene	3	66.67	0.000113	0.00013	0.57	0.00022807	
Carney Park	TOTAL HPCDD	3	100	1.7E-09	0.000000002			
Carney Park	TOTAL HPCDF	3	100	2.2E-09	3.2E-09			
Carney Park	TOTAL HXCDD	3	33.33	5.6E-10	5.6E-10			
Carney Park	TOTAL HXCDF	3	33.33	1.1E-09	1.1E-09			
Carney Park	TOTAL PECDD	3	33.33	4.2E-10	4.2E-10			
Carney Park	TOTAL PECDF	3	66.67	7.5E-10	8.3E-10			
Carney Park	TOTAL TCDF	3	66.67	5.8E-10	7.5E-10			
Carney Park	Total Trihalomethanes	3	100	0.01079	0.01589			
Carney Park	Trichloroethene	3	100	0.000402	0.00044			
Carney Park	Uranium	3	100	0.0023	0.00501			
Carney Park	Vanadium	3	100	0.00222	0.00489			
Carney Park	Zinc	3	100	0.0949	0.503			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	3	66.67	0.0041	0.00423			
Carney Park	Antimony	3	66.67	0.000176	0.00027	0.006	0.045	
Carney Park	Arsenic	3	100	0.00293	0.00451	0.01	0.451	
Carney Park	Barium	3	100	0.0134	0.0444	2	0.0222	
Carney Park	Bromodichloromethane	3	100	0.00131	0.00228			
Carney Park	Bromoform	3	100	0.00482	0.00706			
Carney Park	Cadmium (Water)	3	33.33	0.000101	0.000101	0.005	0.0202	
Carney Park	Chloride	3	100	19.5	30.4			
Carney Park	Chlorine (as Cl2)	3	100	0.54	0.66	4.01	0.164588529	
Carney Park	Chloroform	3	100	0.00065	0.00083			
Carney Park	Chromium	3	66.67	0.000228	0.00093	0.1	0.0093	
Carney Park	cis-1,2-dichloroethene	3	66.67	0.000213	0.000224	0.07	0.0032	
Carney Park	Cobalt	3	100	0.000054	0.00415			
Carney Park	Copper	3	100	0.229	0.874			
Carney Park	Dibromochloromethane	3	100	0.00366	0.00572			
Carney Park	Dissolved Oxygen	3	100	8.74	9.73			
Carney Park	Fecal Streptococcus	3	100					
Carney Park	Fluoride	3	100	0.348	0.376	4	0.094	
Carney Park	Heterotrophic plate count	3	100	1	1			
Carney Park	Iron	3	100	0.0125	0.0517			
Carney Park	Lead	3	100	0.00054	0.00106			
Carney Park	Manganese (nonfood)	3	100	0.00295	0.018			
Carney Park	Mercury	3	100	0.000036	0.000065	0.002	0.0325	
Carney Park	Nickel	3	100	0.00178	0.487			
Carney Park	Nitrate (measured as NO3-)	3	100	16.8	17.1	44.3	0.386004515	
Carney Park	Oxidation Reduction Potential	3	100	617	680			
Carney Park	Ph	3	100	7.37	7.81			
Carney Park	Salinity	3	100					
Carney Park	Selenium	3	100	0.000279	0.000418	0.05	0.00836	
Carney Park	Specific Conductance	3	100	0.78	0.82			
Carney Park	Sulfate	3	100	28.1	29.2			
Carney Park	Temperature	3	100	22.5	24.7			
Carney Park	Tetrachloroethene	3	66.67	0.000113	0.00013	0.005	0.026	
Carney Park	TOTAL HPCDD	3	100	1.7E-09	0.00000002			
Carney Park	TOTAL HPCDF	3	100	2.2E-09	3.2E-09			
Carney Park	TOTAL HXCDD	3	33.33	5.6E-10	5.6E-10			
Carney Park	TOTAL HXCDF	3	33.33	1.1E-09	1.1E-09			
Carney Park	TOTAL PECDD	3	33.33	4.2E-10	4.2E-10			
Carney Park	TOTAL PECDF	3	66.67	7.5E-10	8.3E-10			
Carney Park	TOTAL TCDF	3	66.67	5.8E-10	7.5E-10			
Carney Park	Total Trihalomethanes	3	100	0.01079	0.01589	0.0807	0.196902107	
Carney Park	Trichloroethene	3	100	0.000402	0.00044	0.005	0.088	
Carney Park	Uranium	3	100	0.0023	0.00501	0.03	0.167	
Carney Park	Vanadium	3	100	0.00222	0.00489			
Carney Park	Zinc	3	100	0.0949	0.503			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	Aluminum	10	10	0.00663	0.00663			
Gricignano Support Site	Antimony	10	10	0.000222	0.000222			
Gricignano Support Site	Arsenic	10	100	0.0043	0.0052	0.000045	115.5555556	100
Gricignano Support Site	Barium	10	100	0.014	0.034			
Gricignano Support Site	Beryllium	10	10	0.000033	0.000033			
Gricignano Support Site	Bromodichloromethane	10	60	0.000407	0.00076	0.0011	0.690909091	
Gricignano Support Site	Bromoform	10	60	0.00114	0.00198	0.0085	0.232941176	
Gricignano Support Site	Cadmium (Water)	10	10	0.000042	0.000042			
Gricignano Support Site	Chloride	10	100	6.76	11			
Gricignano Support Site	Chlorine (as Cl2)	11	100	0.05	0.26			
Gricignano Support Site	Chloroform	10	70	0.000125	0.000486	0.00019	2.557894737	30
Gricignano Support Site	Chromium	10	90	0.00045	0.00097			
Gricignano Support Site	Cobalt	10	40	0.00003	0.0033			
Gricignano Support Site	Copper	10	100	0.0045	0.448			
Gricignano Support Site	Dibromochloromethane	10	60	0.00095	0.00168	0.0008	2.1	60
Gricignano Support Site	Dissolved Oxygen	11	100	6.58	10.55			
Gricignano Support Site	Fecal Streptococcus	10	100					
Gricignano Support Site	Heterotrophic plate count	10	100		125			
Gricignano Support Site	Iron	10	60	0.0047	0.024			
Gricignano Support Site	Lead	10	100	0.000395	0.0046			
Gricignano Support Site	Manganese (nonfood)	10	80	0.00011	0.0019			
Gricignano Support Site	Mercury	10	10	0.000017	0.000017			
Gricignano Support Site	Nickel	10	100	0.00043	0.019			
Gricignano Support Site	Nitrate (measured as NO3-)	10	100	2.83	3.44			
Gricignano Support Site	Oxidation Reduction Potential	11	100		571			
Gricignano Support Site	Ph	11	100	6.85	7.61			
Gricignano Support Site	Salinity	11	100		0.07			
Gricignano Support Site	Selenium	10	40	0.0002	0.001			
Gricignano Support Site	Specific Conductance	11	100	0.598	1.52			
Gricignano Support Site	Sulfate	10	100	8.06	9.6			
Gricignano Support Site	Temperature	11	100	17.5	180			
Gricignano Support Site	Thallium	10	30	0.000092	0.00055			
Gricignano Support Site	Tin	10	10	0.00035	0.00035			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	70	1.3E-11	1.2489E-09	5.2E-10	2.401730769	10
Gricignano Support Site	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Gricignano Support Site	TOTAL HPCDF	10	100	5.9E-09	1.2355E-07			
Gricignano Support Site	TOTAL HXCDD	10	60	5.7E-10	2.7E-09			
Gricignano Support Site	TOTAL HXCDF	10	70	0.000000002	3.265E-08			
Gricignano Support Site	TOTAL PECDD	10	30	2.1E-10	6.1E-10			
Gricignano Support Site	TOTAL PECDF	10	50	8.1E-10	1.3E-09			
Gricignano Support Site	TOTAL TCDD	10	10	0.000000001	0.000000001			
Gricignano Support Site	TOTAL TCDF	10	30	4.6E-10	1.4E-09			
Gricignano Support Site	Total Trihalomethanes	10	70	0.000486	0.004302			
Gricignano Support Site	Turbidity	6	100	2	7			
Gricignano Support Site	Uranium	10	90	0.0001	0.00097			
Gricignano Support Site	Vanadium	10	10	0.00105	0.00105			
Gricignano Support Site	Zinc	10	100	0.017	2.36			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	Aluminum	10	10	0.00663	0.00663	37	0.000179189	
Gricignano Support Site	Antimony	10	10	0.000222	0.000222	0.015	0.0148	
Gricignano Support Site	Arsenic	10	100	0.0043	0.0052	0.011	0.472727273	
Gricignano Support Site	Barium	10	100	0.014	0.034	7.3	0.004657534	
Gricignano Support Site	Beryllium	10	10	0.000033	0.000033	0.073	0.000452055	
Gricignano Support Site	Bromodichloromethane	10	60	0.000407	0.00076	0.73	0.001041096	
Gricignano Support Site	Bromoform	10	60	0.00114	0.00198	0.73	0.002712329	
Gricignano Support Site	Cadmium (Water)	10	10	0.000042	0.000042	0.018	0.002333333	
Gricignano Support Site	Chloride	10	100	6.76	11			
Gricignano Support Site	Chlorine (as Cl2)	11	100	0.05	0.26			
Gricignano Support Site	Chloroform	10	70	0.000125	0.000486	0.13	0.003738462	
Gricignano Support Site	Chromium	10	90	0.00045	0.00097			
Gricignano Support Site	Cobalt	10	40	0.00003	0.0033			
Gricignano Support Site	Copper	10	100	0.0045	0.448	1.5	0.298666667	
Gricignano Support Site	Dibromochloromethane	10	60	0.00095	0.00168	0.73	0.00230137	
Gricignano Support Site	Dissolved Oxygen	11	100	6.58	10.55			
Gricignano Support Site	Fecal Streptococcus	10	100					
Gricignano Support Site	Heterotrophic plate count	10	100		125			
Gricignano Support Site	Iron	10	60	0.0047	0.024	26	0.000923077	
Gricignano Support Site	Lead	10	100	0.000395	0.0046	0.02	0.23	
Gricignano Support Site	Manganese (nonfood)	10	80	0.0011	0.0019	0.88	0.002159091	
Gricignano Support Site	Mercury	10	10	0.000017	0.000017	0.00063	0.026984127	
Gricignano Support Site	Nickel	10	100	0.00043	0.019	0.73	0.026027397	
Gricignano Support Site	Nitrate (measured as NO3-)	10	100	2.83	3.44	255.2	0.013479624	
Gricignano Support Site	Oxidation Reduction Potential	11	100		571			
Gricignano Support Site	Ph	11	100	6.85	7.61			
Gricignano Support Site	Salinity	11	100		0.07			
Gricignano Support Site	Selenium	10	40	0.0002	0.001	0.18	0.005555556	
Gricignano Support Site	Specific Conductance	11	100	0.598	1.52			
Gricignano Support Site	Sulfate	10	100	8.06	9.6			
Gricignano Support Site	Temperature	11	100	17.5	180			
Gricignano Support Site	Thallium	10	30	0.000092	0.00055	0.0024	0.229166667	
Gricignano Support Site	Tin	10	10	0.00035	0.00035	22	1.59091E-05	
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	70	1.3E-11	1.2489E-09	0.000000037	0.033754054	
Gricignano Support Site	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Gricignano Support Site	TOTAL HPCDF	10	100	5.9E-09	1.2355E-07			
Gricignano Support Site	TOTAL HXCDD	10	60	5.7E-10	2.7E-09			
Gricignano Support Site	TOTAL HXCDF	10	70	0.000000002	3.265E-08			
Gricignano Support Site	TOTAL PECDD	10	30	2.1E-10	6.1E-10			
Gricignano Support Site	TOTAL PECDF	10	50	8.1E-10	1.3E-09			
Gricignano Support Site	TOTAL TCDD	10	10	0.000000001	0.000000001			
Gricignano Support Site	TOTAL TCDF	10	30	4.6E-10	1.4E-09			
Gricignano Support Site	Total Trihalomethanes	10	70	0.000486	0.004302			
Gricignano Support Site	Turbidity	6	100	2	7			
Gricignano Support Site	Uranium	10	90	0.0001	0.00097	0.11	0.008818182	
Gricignano Support Site	Vanadium	10	10	0.00105	0.00105	0.26	0.004038462	
Gricignano Support Site	Zinc	10	100	0.017	2.36	11	0.214545455	

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	Aluminum	10	10	0.00663	0.00663			
Gricignano Support Site	Antimony	10	10	0.000222	0.000222			
Gricignano Support Site	Arsenic	10	100	0.0043	0.0052			
Gricignano Support Site	Barium	10	100	0.014	0.034			
Gricignano Support Site	Beryllium	10	10	0.000033	0.000033			
Gricignano Support Site	Bromodichloromethane	10	60	0.000407	0.00076			
Gricignano Support Site	Bromoform	10	60	0.00114	0.00198			
Gricignano Support Site	Cadmium (Water)	10	10	0.000042	0.000042			
Gricignano Support Site	Chloride	10	100	6.76	11			
Gricignano Support Site	Chlorine (as Cl2)	11	100	0.05	0.26			
Gricignano Support Site	Chloroform	10	70	0.000125	0.000486	0.00021	2.314285714	30
Gricignano Support Site	Chromium	10	90	0.00045	0.00097			
Gricignano Support Site	Cobalt	10	40	0.00003	0.0033			
Gricignano Support Site	Copper	10	100	0.0045	0.448			
Gricignano Support Site	Dibromochloromethane	10	60	0.00095	0.00168			
Gricignano Support Site	Dissolved Oxygen	11	100	6.58	10.55			
Gricignano Support Site	Fecal Streptococcus	10	100					
Gricignano Support Site	Heterotrophic plate count	10	100		125			
Gricignano Support Site	Iron	10	60	0.0047	0.024			
Gricignano Support Site	Lead	10	100	0.000395	0.0046			
Gricignano Support Site	Manganese (nonfood)	10	80	0.00011	0.0019			
Gricignano Support Site	Mercury	10	10	0.000017	0.000017			
Gricignano Support Site	Nickel	10	100	0.00043	0.019			
Gricignano Support Site	Nitrate (measured as NO3-)	10	100	2.83	3.44			
Gricignano Support Site	Oxidation Reduction Potential	11	100		571			
Gricignano Support Site	Ph	11	100	6.85	7.61			
Gricignano Support Site	Salinity	11	100		0.07			
Gricignano Support Site	Selenium	10	40	0.0002	0.001			
Gricignano Support Site	Specific Conductance	11	100	0.598	1.52			
Gricignano Support Site	Sulfate	10	100	8.06	9.6			
Gricignano Support Site	Temperature	11	100	17.5	180			
Gricignano Support Site	Thallium	10	30	0.000092	0.00055			
Gricignano Support Site	Tin	10	10	0.00035	0.00035			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	70	1.3E-11	1.2489E-09			
Gricignano Support Site	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Gricignano Support Site	TOTAL HPCDF	10	100	5.9E-09	1.2355E-07			
Gricignano Support Site	TOTAL HXCDD	10	60	5.7E-10	2.7E-09			
Gricignano Support Site	TOTAL HXCDF	10	70	0.000000002	3.265E-08			
Gricignano Support Site	TOTAL PECDD	10	30	2.1E-10	6.1E-10			
Gricignano Support Site	TOTAL PECDF	10	50	8.1E-10	1.3E-09			
Gricignano Support Site	TOTAL TCDD	10	10	0.000000001	0.000000001			
Gricignano Support Site	TOTAL TCDF	10	30	4.6E-10	1.4E-09			
Gricignano Support Site	Total Trihalomethanes	10	70	0.000486	0.004302			
Gricignano Support Site	Turbidity	6	100	2	7			
Gricignano Support Site	Uranium	10	90	0.0001	0.00097			
Gricignano Support Site	Vanadium	10	10	0.00105	0.00105			
Gricignano Support Site	Zinc	10	100	0.017	2.36			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	Aluminum	10	10	0.00663	0.00663			
Gricignano Support Site	Antimony	10	10	0.000222	0.000222			
Gricignano Support Site	Arsenic	10	100	0.0043	0.0052			
Gricignano Support Site	Barium	10	100	0.014	0.034			
Gricignano Support Site	Beryllium	10	10	0.000033	0.000033			
Gricignano Support Site	Bromodichloromethane	10	60	0.000407	0.00076			
Gricignano Support Site	Bromoform	10	60	0.00114	0.00198			
Gricignano Support Site	Cadmium (Water)	10	10	0.000042	0.000042			
Gricignano Support Site	Chloride	10	100	6.76	11			
Gricignano Support Site	Chlorine (as Cl2)	11	100	0.05	0.26			
Gricignano Support Site	Chloroform	10	70	0.000125	0.000486	0.2	0.00243	
Gricignano Support Site	Chromium	10	90	0.00045	0.00097			
Gricignano Support Site	Cobalt	10	40	0.00003	0.0033			
Gricignano Support Site	Copper	10	100	0.0045	0.448			
Gricignano Support Site	Dibromochloromethane	10	60	0.00095	0.00168			
Gricignano Support Site	Dissolved Oxygen	11	100	6.58	10.55			
Gricignano Support Site	Fecal Streptococcus	10	100					
Gricignano Support Site	Heterotrophic plate count	10	100		125			
Gricignano Support Site	Iron	10	60	0.0047	0.024			
Gricignano Support Site	Lead	10	100	0.000395	0.0046			
Gricignano Support Site	Manganese (nonfood)	10	80	0.00011	0.0019			
Gricignano Support Site	Mercury	10	10	0.000017	0.000017	0.00063	0.026984127	
Gricignano Support Site	Nickel	10	100	0.00043	0.019			
Gricignano Support Site	Nitrate (measured as NO3-)	10	100	2.83	3.44			
Gricignano Support Site	Oxidation Reduction Potential	11	100		571			
Gricignano Support Site	Ph	11	100	6.85	7.61			
Gricignano Support Site	Salinity	11	100		0.07			
Gricignano Support Site	Selenium	10	40	0.0002	0.001			
Gricignano Support Site	Specific Conductance	11	100	0.598	1.52			
Gricignano Support Site	Sulfate	10	100	8.06	9.6			
Gricignano Support Site	Temperature	11	100	17.5	180			
Gricignano Support Site	Thallium	10	30	0.000092	0.00055			
Gricignano Support Site	Tin	10	10	0.00035	0.00035			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	70	1.3E-11	1.2489E-09			
Gricignano Support Site	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Gricignano Support Site	TOTAL HPCDF	10	100	5.9E-09	1.2355E-07			
Gricignano Support Site	TOTAL HXCDD	10	60	5.7E-10	2.7E-09			
Gricignano Support Site	TOTAL HXCDF	10	70	0.000000002	3.265E-08			
Gricignano Support Site	TOTAL PECDD	10	30	2.1E-10	6.1E-10			
Gricignano Support Site	TOTAL PECDF	10	50	8.1E-10	1.3E-09			
Gricignano Support Site	TOTAL TCDD	10	10	0.000000001	0.000000001			
Gricignano Support Site	TOTAL TCDF	10	30	4.6E-10	1.4E-09			
Gricignano Support Site	Total Trihalomethanes	10	70	0.000486	0.004302			
Gricignano Support Site	Turbidity	6	100	2	7			
Gricignano Support Site	Uranium	10	90	0.0001	0.00097			
Gricignano Support Site	Vanadium	10	10	0.00105	0.00105			
Gricignano Support Site	Zinc	10	100	0.017	2.36			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	Aluminum	10	10	0.00663	0.00663			
Gricignano Support Site	Antimony	10	10	0.000222	0.000222	0.006	0.037	
Gricignano Support Site	Arsenic	10	100	0.0043	0.0052	0.01	0.52	
Gricignano Support Site	Barium	10	100	0.014	0.034	2	0.017	
Gricignano Support Site	Beryllium	10	10	0.000033	0.000033	0.004	0.00825	
Gricignano Support Site	Bromodichloromethane	10	60	0.000407	0.00076			
Gricignano Support Site	Bromoform	10	60	0.00114	0.00198			
Gricignano Support Site	Cadmium (Water)	10	10	0.000042	0.000042	0.005	0.0084	
Gricignano Support Site	Chloride	10	100	6.76	11			
Gricignano Support Site	Chlorine (as Cl2)	11	100	0.05	0.26	4.01	0.064837905	
Gricignano Support Site	Chloroform	10	70	0.000125	0.000486			
Gricignano Support Site	Chromium	10	90	0.00045	0.00097	0.1	0.0097	
Gricignano Support Site	Cobalt	10	40	0.00003	0.0033			
Gricignano Support Site	Copper	10	100	0.0045	0.448			
Gricignano Support Site	Dibromochloromethane	10	60	0.00095	0.00168			
Gricignano Support Site	Dissolved Oxygen	11	100	6.58	10.55			
Gricignano Support Site	Fecal Streptococcus	10	100					
Gricignano Support Site	Heterotrophic plate count	10	100		125			
Gricignano Support Site	Iron	10	60	0.0047	0.024			
Gricignano Support Site	Lead	10	100	0.000395	0.0046			
Gricignano Support Site	Manganese (nonfood)	10	80	0.00011	0.0019			
Gricignano Support Site	Mercury	10	10	0.000017	0.000017	0.002	0.0085	
Gricignano Support Site	Nickel	10	100	0.00043	0.019			
Gricignano Support Site	Nitrate (measured as NO3-)	10	100	2.83	3.44	44.3	0.07765237	
Gricignano Support Site	Oxidation Reduction Potential	11	100		571			
Gricignano Support Site	Ph	11	100	6.85	7.61			
Gricignano Support Site	Salinity	11	100		0.07			
Gricignano Support Site	Selenium	10	40	0.0002	0.001	0.05	0.02	
Gricignano Support Site	Specific Conductance	11	100	0.598	1.52			
Gricignano Support Site	Sulfate	10	100	8.06	9.6			
Gricignano Support Site	Temperature	11	100	17.5	180			
Gricignano Support Site	Thallium	10	30	0.000092	0.00055	0.002	0.275	
Gricignano Support Site	Tin	10	10	0.00035	0.00035			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	10	70	1.3E-11	1.2489E-09	0.00000003	0.04163	
Gricignano Support Site	TOTAL HPCDD	10	100	1.4E-09	3.8E-09			
Gricignano Support Site	TOTAL HPCDF	10	100	5.9E-09	1.2355E-07			
Gricignano Support Site	TOTAL HXCDD	10	60	5.7E-10	2.7E-09			
Gricignano Support Site	TOTAL HXCDF	10	70	0.000000002	3.265E-08			
Gricignano Support Site	TOTAL PECDD	10	30	2.1E-10	6.1E-10			
Gricignano Support Site	TOTAL PECDF	10	50	8.1E-10	1.3E-09			
Gricignano Support Site	TOTAL TCDD	10	10	0.000000001	0.000000001			
Gricignano Support Site	TOTAL TCDF	10	30	4.6E-10	1.4E-09			
Gricignano Support Site	Total Trihalomethanes	10	70	0.000486	0.004302	0.0807	0.05330855	
Gricignano Support Site	Turbidity	6	100	2	7			
Gricignano Support Site	Uranium	10	90	0.0001	0.00097	0.03	0.032333333	
Gricignano Support Site	Vanadium	10	10	0.00105	0.00105			
Gricignano Support Site	Zinc	10	100	0.017	2.36			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
JFC NATO	Aluminum	3	100	0.003	0.0216			
JFC NATO	Arsenic	3	100	0.00233	0.00298	0.000045	66.22222222	100
JFC NATO	Barium	3	100	0.00927	0.0125			
JFC NATO	Beryllium	3	100	0.000606	0.000833			
JFC NATO	Bromodichloromethane	3	33.33	0.000222	0.000222	0.0011	0.201818182	
JFC NATO	Bromoform	3	100	0.00073	0.00128	0.0085	0.150588235	
JFC NATO	Chloride	3	100	7.89	12.1			
JFC NATO	Chlorine (as Cl2)	3	100	0.09	0.14			
JFC NATO	Chromium	3	100	0.000194	0.000679			
JFC NATO	Cobalt	3	100	0.000101	0.00198			
JFC NATO	Copper	3	100	0.0178	0.137			
JFC NATO	Dibromochloromethane	3	100	0.000277	0.000638	0.0008	0.7975	
JFC NATO	Dissolved Oxygen	3	100	8.66	11.23			
JFC NATO	Fecal Streptococcus	3	100					
JFC NATO	Heterotrophic plate count	3	100	1	11			
JFC NATO	Iron	3	100	0.0475	0.246			
JFC NATO	Lead	3	100	0.000666	0.00629			
JFC NATO	Manganese (nonfood)	3	100	0.00382	0.0597			
JFC NATO	Nickel	3	100	0.00245	0.00927			
JFC NATO	Nitrate (measured as NO3-)	3	100	3.65	5.95			
JFC NATO	Oxidation Reduction Potential	3	100	539	668			
JFC NATO	Ph	3	100	7.15	7.59			
JFC NATO	Salinity	3	100					
JFC NATO	Selenium	3	100	0.000272	0.000888			
JFC NATO	Specific Conductance	3	100	0.42	0.61			
JFC NATO	Sulfate	3	100	5.2	10.1			
JFC NATO	Temperature	3	100	14.3	26.7			
JFC NATO	Tin	3	33.33	0.000103	0.000103			
JFC NATO	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	1.01E-10	3.662E-10	5.2E-10	0.704230769	
JFC NATO	TOTAL HPCDD	3	100	2.2E-09	3.7E-09			
JFC NATO	TOTAL HPCDF	3	100	5.8E-09	0.000000011			
JFC NATO	TOTAL HXCDD	3	66.67	1.1E-09	1.4E-09			
JFC NATO	TOTAL HXCDF	3	66.67	2.1E-09	2.7E-09			
JFC NATO	TOTAL PECDF	3	33.33	9E-10	9E-10			
JFC NATO	TOTAL TCDD	3	66.67	1.4E-09	1.9E-09			
JFC NATO	TOTAL TCDF	3	66.67	6.4E-10	1.1E-09			
JFC NATO	Total Trihalomethanes	3	100	0.001007	0.00214			
JFC NATO	Trichloroethene	3	33.33	0.000179	0.000179	0.0017	0.105294118	
JFC NATO	Turbidity	2	100	1	4			
JFC NATO	Uranium	3	100	0.000717	0.00114			
JFC NATO	Vanadium	3	100	0.00179	0.00262			
JFC NATO	Zinc	3	100	0.0781	0.366			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
JFC NATO	Aluminum	3	100	0.003	0.0216	37	0.000583784	
JFC NATO	Arsenic	3	100	0.00233	0.00298	0.011	0.270909091	
JFC NATO	Barium	3	100	0.00927	0.0125	7.3	0.001712329	
JFC NATO	Beryllium	3	100	0.000606	0.000833	0.073	0.001141096	
JFC NATO	Bromodichloromethane	3	33.33	0.000222	0.000222	0.73	0.00030411	
JFC NATO	Bromoform	3	100	0.00073	0.00128	0.73	0.001753425	
JFC NATO	Chloride	3	100	7.89	12.1			
JFC NATO	Chlorine (as Cl2)	3	100	0.09	0.14			
JFC NATO	Chromium	3	100	0.000194	0.000679			
JFC NATO	Cobalt	3	100	0.000101	0.00198			
JFC NATO	Copper	3	100	0.0178	0.137	1.5	0.091333333	
JFC NATO	Dibromochloromethane	3	100	0.000277	0.000638	0.73	0.000873973	
JFC NATO	Dissolved Oxygen	3	100	8.66	11.23			
JFC NATO	Fecal Streptococcus	3	100					
JFC NATO	Heterotrophic plate count	3	100	1	11			
JFC NATO	Iron	3	100	0.0475	0.246	26	0.009461538	
JFC NATO	Lead	3	100	0.000666	0.00629	0.02	0.3145	
JFC NATO	Manganese (nonfood)	3	100	0.00382	0.0597	0.88	0.067840909	
JFC NATO	Nickel	3	100	0.00245	0.00927	0.73	0.01269863	
JFC NATO	Nitrate (measured as NO3-)	3	100	3.65	5.95	255.2	0.023315047	
JFC NATO	Oxidation Reduction Potential	3	100	539	668			
JFC NATO	Ph	3	100	7.15	7.59			
JFC NATO	Salinity	3	100					
JFC NATO	Selenium	3	100	0.000272	0.000888	0.18	0.004933333	
JFC NATO	Specific Conductance	3	100	0.42	0.61			
JFC NATO	Sulfate	3	100	5.2	10.1			
JFC NATO	Temperature	3	100	14.3	26.7			
JFC NATO	Tin	3	33.33	0.000103	0.000103	22	4.68182E-06	
JFC NATO	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	1.01E-10	3.662E-10	0.000000037	0.009897297	
JFC NATO	TOTAL HPCDD	3	100	2.2E-09	3.7E-09			
JFC NATO	TOTAL HPCDF	3	100	5.8E-09	0.000000011			
JFC NATO	TOTAL HXCDD	3	66.67	1.1E-09	1.4E-09			
JFC NATO	TOTAL HXCDF	3	66.67	2.1E-09	2.7E-09			
JFC NATO	TOTAL PECDF	3	33.33	9E-10	9E-10			
JFC NATO	TOTAL TCDD	3	66.67	1.4E-09	1.9E-09			
JFC NATO	TOTAL TCDF	3	66.67	6.4E-10	1.1E-09			
JFC NATO	Total Trihalomethanes	3	100	0.001007	0.00214			
JFC NATO	Trichloroethene	3	33.33	0.000179	0.000179			
JFC NATO	Turbidity	2	100	1	4			
JFC NATO	Uranium	3	100	0.000717	0.00114	0.11	0.010363636	
JFC NATO	Vanadium	3	100	0.00179	0.00262	0.26	0.010076923	
JFC NATO	Zinc	3	100	0.0781	0.366	11	0.033272727	

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
JFC NATO	Aluminum	3	100	0.003	0.0216			
JFC NATO	Arsenic	3	100	0.00233	0.00298			
JFC NATO	Barium	3	100	0.00927	0.0125			
JFC NATO	Beryllium	3	100	0.000606	0.000833			
JFC NATO	Bromodichloromethane	3	33.33	0.000222	0.000222			
JFC NATO	Bromoform	3	100	0.00073	0.00128			
JFC NATO	Chloride	3	100	7.89	12.1			
JFC NATO	Chlorine (as Cl2)	3	100	0.09	0.14			
JFC NATO	Chromium	3	100	0.000194	0.000679			
JFC NATO	Cobalt	3	100	0.000101	0.00198			
JFC NATO	Copper	3	100	0.0178	0.137			
JFC NATO	Dibromochloromethane	3	100	0.000277	0.000638			
JFC NATO	Dissolved Oxygen	3	100	8.66	11.23			
JFC NATO	Fecal Steptococcus	3	100					
JFC NATO	Heterotrophic plate count	3	100	1	11			
JFC NATO	Iron	3	100	0.0475	0.246			
JFC NATO	Lead	3	100	0.000666	0.00629			
JFC NATO	Manganese (nonfood)	3	100	0.00382	0.0597			
JFC NATO	Nickel	3	100	0.00245	0.00927			
JFC NATO	Nitrate (measured as NO3-)	3	100	3.65	5.95			
JFC NATO	Oxidation Reduction Potential	3	100	539	668			
JFC NATO	Ph	3	100	7.15	7.59			
JFC NATO	Salinity	3	100					
JFC NATO	Selenium	3	100	0.000272	0.000888			
JFC NATO	Specific Conductance	3	100	0.42	0.61			
JFC NATO	Sulfate	3	100	5.2	10.1			
JFC NATO	Temperature	3	100	14.3	26.7			
JFC NATO	Tin	3	33.33	0.000103	0.000103			
JFC NATO	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	1.01E-10	3.662E-10			
JFC NATO	TOTAL HPCDD	3	100	2.2E-09	3.7E-09			
JFC NATO	TOTAL HPCDF	3	100	5.8E-09	0.00000011			
JFC NATO	TOTAL HXCDD	3	66.67	1.1E-09	1.4E-09			
JFC NATO	TOTAL HXCDF	3	66.67	2.1E-09	2.7E-09			
JFC NATO	TOTAL PECDF	3	33.33	9E-10	9E-10			
JFC NATO	TOTAL TCDD	3	66.67	1.4E-09	1.9E-09			
JFC NATO	TOTAL TCDF	3	66.67	6.4E-10	1.1E-09			
JFC NATO	Total Trihalomethanes	3	100	0.001007	0.00214			
JFC NATO	Trichloroethene	3	33.33	0.000179	0.000179	0.0024	0.074583333	
JFC NATO	Turbidity	2	100	1	4			
JFC NATO	Uranium	3	100	0.000717	0.00114			
JFC NATO	Vanadium	3	100	0.00179	0.00262			
JFC NATO	Zinc	3	100	0.0781	0.366			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
JFC NATO	Aluminum	3	100	0.003	0.0216			
JFC NATO	Arsenic	3	100	0.00233	0.00298			
JFC NATO	Barium	3	100	0.00927	0.0125			
JFC NATO	Beryllium	3	100	0.000606	0.000833			
JFC NATO	Bromodichloromethane	3	33.33	0.000222	0.000222			
JFC NATO	Bromoform	3	100	0.00073	0.00128			
JFC NATO	Chloride	3	100	7.89	12.1			
JFC NATO	Chlorine (as Cl2)	3	100	0.09	0.14			
JFC NATO	Chromium	3	100	0.000194	0.000679			
JFC NATO	Cobalt	3	100	0.000101	0.00198			
JFC NATO	Copper	3	100	0.0178	0.137			
JFC NATO	Dibromochloromethane	3	100	0.000277	0.000638			
JFC NATO	Dissolved Oxygen	3	100	8.66	11.23			
JFC NATO	Fecal Steptococcus	3	100					
JFC NATO	Heterotrophic plate count	3	100	1	11			
JFC NATO	Iron	3	100	0.0475	0.246			
JFC NATO	Lead	3	100	0.000666	0.00629			
JFC NATO	Manganese (nonfood)	3	100	0.00382	0.0597			
JFC NATO	Nickel	3	100	0.00245	0.00927			
JFC NATO	Nitrate (measured as NO3-)	3	100	3.65	5.95			
JFC NATO	Oxidation Reduction Potential	3	100	539	668			
JFC NATO	Ph	3	100	7.15	7.59			
JFC NATO	Salinity	3	100					
JFC NATO	Selenium	3	100	0.000272	0.000888			
JFC NATO	Specific Conductance	3	100	0.42	0.61			
JFC NATO	Sulfate	3	100	5.2	10.1			
JFC NATO	Temperature	3	100	14.3	26.7			
JFC NATO	Tin	3	33.33	0.000103	0.000103			
JFC NATO	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	1.01E-10	3.662E-10			
JFC NATO	TOTAL HPCDD	3	100	2.2E-09	3.7E-09			
JFC NATO	TOTAL HPCDF	3	100	5.8E-09	0.00000011			
JFC NATO	TOTAL HXCDD	3	66.67	1.1E-09	1.4E-09			
JFC NATO	TOTAL HXCDF	3	66.67	2.1E-09	2.7E-09			
JFC NATO	TOTAL PECDF	3	33.33	9E-10	9E-10			
JFC NATO	TOTAL TCDD	3	66.67	1.4E-09	1.9E-09			
JFC NATO	TOTAL TCDF	3	66.67	6.4E-10	1.1E-09			
JFC NATO	Total Trihalomethanes	3	100	0.001007	0.00214			
JFC NATO	Trichloroethene	3	33.33	0.000179	0.000179			
JFC NATO	Turbidity	2	100	1	4			
JFC NATO	Uranium	3	100	0.000717	0.00114			
JFC NATO	Vanadium	3	100	0.00179	0.00262			
JFC NATO	Zinc	3	100	0.0781	0.366			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
JFC NATO	Aluminum	3	100	0.003	0.0216			
JFC NATO	Arsenic	3	100	0.00233	0.00298	0.01	0.298	
JFC NATO	Barium	3	100	0.00927	0.0125	2	0.00625	
JFC NATO	Beryllium	3	100	0.0000606	0.0000833	0.004	0.020825	
JFC NATO	Bromodichloromethane	3	33.33	0.000222	0.000222			
JFC NATO	Bromoform	3	100	0.00073	0.00128			
JFC NATO	Chloride	3	100	7.89	12.1			
JFC NATO	Chlorine (as Cl2)	3	100	0.09	0.14	4.01	0.034912718	
JFC NATO	Chromium	3	100	0.000194	0.000679	0.1	0.00679	
JFC NATO	Cobalt	3	100	0.000101	0.00198			
JFC NATO	Copper	3	100	0.0178	0.137			
JFC NATO	Dibromochloromethane	3	100	0.000277	0.000638			
JFC NATO	Dissolved Oxygen	3	100	8.66	11.23			
JFC NATO	Fecal Streptococcus	3	100					
JFC NATO	Heterotrophic plate count	3	100	1	11			
JFC NATO	Iron	3	100	0.0475	0.246			
JFC NATO	Lead	3	100	0.000666	0.00629			
JFC NATO	Manganese (nonfood)	3	100	0.00382	0.0597			
JFC NATO	Nickel	3	100	0.00245	0.00927			
JFC NATO	Nitrate (measured as NO3-)	3	100	3.65	5.95	44.3	0.134311512	
JFC NATO	Oxidation Reduction Potential	3	100	539	668			
JFC NATO	Ph	3	100	7.15	7.59			
JFC NATO	Salinity	3	100					
JFC NATO	Selenium	3	100	0.000272	0.000888	0.05	0.01776	
JFC NATO	Specific Conductance	3	100	0.42	0.61			
JFC NATO	Sulfate	3	100	5.2	10.1			
JFC NATO	Temperature	3	100	14.3	26.7			
JFC NATO	Tin	3	33.33	0.000103	0.000103			
JFC NATO	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	100	1.01E-10	3.662E-10	0.00000003	0.012206667	
JFC NATO	TOTAL HPCDD	3	100	2.2E-09	3.7E-09			
JFC NATO	TOTAL HPCDF	3	100	5.8E-09	0.000000011			
JFC NATO	TOTAL HXCDD	3	66.67	1.1E-09	1.4E-09			
JFC NATO	TOTAL HXCDF	3	66.67	2.1E-09	2.7E-09			
JFC NATO	TOTAL PECDF	3	33.33	9E-10	9E-10			
JFC NATO	TOTAL TCDD	3	66.67	1.4E-09	1.9E-09			
JFC NATO	TOTAL TCDF	3	66.67	6.4E-10	1.1E-09			
JFC NATO	Total Trihalomethanes	3	100	0.001007	0.00214	0.0807	0.026517968	
JFC NATO	Trichloroethene	3	33.33	0.000179	0.000179	0.005	0.0358	
JFC NATO	Turbidity	2	100	1	4			
JFC NATO	Uranium	3	100	0.000717	0.00114	0.03	0.038	
JFC NATO	Vanadium	3	100	0.00179	0.00262			
JFC NATO	Zinc	3	100	0.0781	0.366			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Lago Patria Receiver Site	Aluminum	3	100	0.00291	0.0096			
Lago Patria Receiver Site	Antimony	3	66.67	0.000335	0.0005			
Lago Patria Receiver Site	Arsenic	3	100	0.00199	0.00342	0.000045	76	100
Lago Patria Receiver Site	Barium	3	100	0.0193	0.0447			
Lago Patria Receiver Site	Beryllium	3	66.67	0.0000359	0.0000521			
Lago Patria Receiver Site	Bromoform	3	100	0.00063	0.00095	0.0085	0.111764706	
Lago Patria Receiver Site	Cadmium (Water)	3	66.67	0.0000417	0.0044			
Lago Patria Receiver Site	Chloride	3	100	8.32	9.5			
Lago Patria Receiver Site	Chlorine (as Cl2)	3	100	0.1	0.1			
Lago Patria Receiver Site	Chloroform	3	33.33	0.000139	0.000139	0.00019	0.731578947	
Lago Patria Receiver Site	Chromium	3	66.67	0.00056	0.00065			
Lago Patria Receiver Site	Cobalt	3	100	0.00078	0.00319			
Lago Patria Receiver Site	Copper	3	100	0.0685	0.266			
Lago Patria Receiver Site	Dibromochloromethane	3	100	0.000381	0.00053	0.0008	0.6625	
Lago Patria Receiver Site	Dissolved Oxygen	3	100	9.15	9.72			
Lago Patria Receiver Site	Fecal Streptococcus	3	100					
Lago Patria Receiver Site	Heterotrophic plate count	3	100		22			
Lago Patria Receiver Site	Iron	3	66.67	0.00832	0.0329			
Lago Patria Receiver Site	Lead	3	100	0.00356	0.0158			
Lago Patria Receiver Site	Manganese (nonfood)	3	100	0.00054	0.0254			
Lago Patria Receiver Site	Nickel	3	100	0.00383	0.191			
Lago Patria Receiver Site	Nitrate (measured as NO3-)	3	100	2.93	3			
Lago Patria Receiver Site	Oxidation Reduction Potential	3	100	593	625			
Lago Patria Receiver Site	Ph	3	100	7.22	7.35			
Lago Patria Receiver Site	Salinity	3	100					
Lago Patria Receiver Site	Silver	3	33.33	0.000122	0.000122			
Lago Patria Receiver Site	Specific Conductance	3	100	0.71	0.75			
Lago Patria Receiver Site	Sulfate	3	100	7.02	7.36			
Lago Patria Receiver Site	Temperature	3	100	21.1	23			
Lago Patria Receiver Site	Thallium	3	66.67	0.00019	0.000221			
Lago Patria Receiver Site	Tin	3	33.33	0.000134	0.000134			
Lago Patria Receiver Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	66.67	3.8E-12	5E-11	5.2E-10	0.096153846	
Lago Patria Receiver Site	TOTAL HPCDD	3	100	1.5E-09	2.3E-09			
Lago Patria Receiver Site	TOTAL HPCDF	3	100	0.00000002	3.2E-09			
Lago Patria Receiver Site	TOTAL HXCDD	3	33.33	7.4E-10	7.4E-10			
Lago Patria Receiver Site	TOTAL HXCDF	3	100	1.1E-09	1.9E-09			
Lago Patria Receiver Site	TOTAL PECDF	3	100	5.8E-10	8.9E-10			
Lago Patria Receiver Site	TOTAL TCDD	3	66.67	4.2E-10	7E-10			
Lago Patria Receiver Site	TOTAL TCDF	3	100	3.8E-10	4.6E-10			
Lago Patria Receiver Site	Total Trihalomethanes	3	100	0.001289	0.0014			
Lago Patria Receiver Site	Turbidity	2	100	1	92			
Lago Patria Receiver Site	Uranium	3	100	0.00058	0.00083			
Lago Patria Receiver Site	Zinc	3	100	0.168	3.49			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Lago Patria Receiver Site	Aluminum	3	100	0.00291	0.0096	37	0.000259459	
Lago Patria Receiver Site	Antimony	3	66.67	0.000335	0.0005	0.015	0.033333333	
Lago Patria Receiver Site	Arsenic	3	100	0.00199	0.00342	0.011	0.310909091	
Lago Patria Receiver Site	Barium	3	100	0.0193	0.0447	7.3	0.006123288	
Lago Patria Receiver Site	Beryllium	3	66.67	0.0000359	0.0000521	0.073	0.000713699	
Lago Patria Receiver Site	Bromoform	3	100	0.00063	0.00095	0.73	0.00130137	
Lago Patria Receiver Site	Cadmium (Water)	3	66.67	0.0000417	0.0044	0.018	0.244444444	
Lago Patria Receiver Site	Chloride	3	100	8.32	9.5			
Lago Patria Receiver Site	Chlorine (as Cl2)	3	100	0.1	0.1			
Lago Patria Receiver Site	Chloroform	3	33.33	0.000139	0.000139	0.13	0.001069231	
Lago Patria Receiver Site	Chromium	3	66.67	0.00056	0.00065			
Lago Patria Receiver Site	Cobalt	3	100	0.00078	0.00319			
Lago Patria Receiver Site	Copper	3	100	0.0685	0.266	1.5	0.177333333	
Lago Patria Receiver Site	Dibromochloromethane	3	100	0.000381	0.00053	0.73	0.000726027	
Lago Patria Receiver Site	Dissolved Oxygen	3	100	9.15	9.72			
Lago Patria Receiver Site	Fecal Streptococcus	3	100					
Lago Patria Receiver Site	Heterotrophic plate count	3	100		22			
Lago Patria Receiver Site	Iron	3	66.67	0.00832	0.0329	26	0.001265385	
Lago Patria Receiver Site	Lead	3	100	0.00356	0.0158	0.02	0.79	
Lago Patria Receiver Site	Manganese (nonfood)	3	100	0.00054	0.0254	0.88	0.028863636	
Lago Patria Receiver Site	Nickel	3	100	0.00383	0.191	0.73	0.261643836	
Lago Patria Receiver Site	Nitrate (measured as NO3-)	3	100	2.93	3	255.2	0.011755486	
Lago Patria Receiver Site	Oxidation Reduction Potential	3	100	593	625			
Lago Patria Receiver Site	Ph	3	100	7.22	7.35			
Lago Patria Receiver Site	Salinity	3	100					
Lago Patria Receiver Site	Silver	3	33.33	0.000122	0.000122	0.18	0.000677778	
Lago Patria Receiver Site	Specific Conductance	3	100	0.71	0.75			
Lago Patria Receiver Site	Sulfate	3	100	7.02	7.36			
Lago Patria Receiver Site	Temperature	3	100	21.1	23			
Lago Patria Receiver Site	Thallium	3	66.67	0.00019	0.000221	0.0024	0.092083333	
Lago Patria Receiver Site	Tin	3	33.33	0.000134	0.000134	22	6.09091E-06	
Lago Patria Receiver Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	66.67	3.8E-12	5E-11	0.000000037	0.001351351	
Lago Patria Receiver Site	TOTAL HPCDD	3	100	1.5E-09	2.3E-09			
Lago Patria Receiver Site	TOTAL HPCDF	3	100	0.000000002	3.2E-09			
Lago Patria Receiver Site	TOTAL HXCDD	3	33.33	7.4E-10	7.4E-10			
Lago Patria Receiver Site	TOTAL HXCDF	3	100	1.1E-09	1.9E-09			
Lago Patria Receiver Site	TOTAL PECDF	3	100	5.8E-10	8.9E-10			
Lago Patria Receiver Site	TOTAL TCDD	3	66.67	4.2E-10	7E-10			
Lago Patria Receiver Site	TOTAL TCDF	3	100	3.8E-10	4.6E-10			
Lago Patria Receiver Site	Total Trihalomethanes	3	100	0.001289	0.0014			
Lago Patria Receiver Site	Turbidity	2	100	1	92			
Lago Patria Receiver Site	Uranium	3	100	0.00058	0.00083	0.11	0.007545455	
Lago Patria Receiver Site	Zinc	3	100	0.168	3.49	11	0.317272727	

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Lago Patria Receiver Site	Aluminum	3	100	0.00291	0.0096			
Lago Patria Receiver Site	Antimony	3	66.67	0.000335	0.0005			
Lago Patria Receiver Site	Arsenic	3	100	0.00199	0.00342			
Lago Patria Receiver Site	Barium	3	100	0.0193	0.0447			
Lago Patria Receiver Site	Beryllium	3	66.67	0.0000359	0.0000521			
Lago Patria Receiver Site	Bromoform	3	100	0.00063	0.00095			
Lago Patria Receiver Site	Cadmium (Water)	3	66.67	0.0000417	0.0044			
Lago Patria Receiver Site	Chloride	3	100	8.32	9.5			
Lago Patria Receiver Site	Chlorine (as Cl2)	3	100	0.1	0.1			
Lago Patria Receiver Site	Chloroform	3	33.33	0.000139	0.000139	0.00021	0.661904762	
Lago Patria Receiver Site	Chromium	3	66.67	0.00056	0.00065			
Lago Patria Receiver Site	Cobalt	3	100	0.00078	0.00319			
Lago Patria Receiver Site	Copper	3	100	0.0685	0.266			
Lago Patria Receiver Site	Dibromochloromethane	3	100	0.000381	0.00053			
Lago Patria Receiver Site	Dissolved Oxygen	3	100	9.15	9.72			
Lago Patria Receiver Site	Fecal Streptococcus	3	100					
Lago Patria Receiver Site	Heterotrophic plate count	3	100		22			
Lago Patria Receiver Site	Iron	3	66.67	0.00832	0.0329			
Lago Patria Receiver Site	Lead	3	100	0.00356	0.0158			
Lago Patria Receiver Site	Manganese (nonfood)	3	100	0.00054	0.0254			
Lago Patria Receiver Site	Nickel	3	100	0.00383	0.191			
Lago Patria Receiver Site	Nitrate (measured as NO3-)	3	100	2.93	3			
Lago Patria Receiver Site	Oxidation Reduction Potential	3	100	593	625			
Lago Patria Receiver Site	Ph	3	100	7.22	7.35			
Lago Patria Receiver Site	Salinity	3	100					
Lago Patria Receiver Site	Silver	3	33.33	0.000122	0.000122			
Lago Patria Receiver Site	Specific Conductance	3	100	0.71	0.75			
Lago Patria Receiver Site	Sulfate	3	100	7.02	7.36			
Lago Patria Receiver Site	Temperature	3	100	21.1	23			
Lago Patria Receiver Site	Thallium	3	66.67	0.00019	0.000221			
Lago Patria Receiver Site	Tin	3	33.33	0.000134	0.000134			
Lago Patria Receiver Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	66.67	3.8E-12	5E-11			
Lago Patria Receiver Site	TOTAL HPCDD	3	100	1.5E-09	2.3E-09			
Lago Patria Receiver Site	TOTAL HPCDF	3	100	0.000000002	3.2E-09			
Lago Patria Receiver Site	TOTAL HXCDD	3	33.33	7.4E-10	7.4E-10			
Lago Patria Receiver Site	TOTAL HXCDF	3	100	1.1E-09	1.9E-09			
Lago Patria Receiver Site	TOTAL PECDF	3	100	5.8E-10	8.9E-10			
Lago Patria Receiver Site	TOTAL TCDD	3	66.67	4.2E-10	7E-10			
Lago Patria Receiver Site	TOTAL TCDF	3	100	3.8E-10	4.6E-10			
Lago Patria Receiver Site	Total Trihalomethanes	3	100	0.001289	0.0014			
Lago Patria Receiver Site	Turbidity	2	100	1	92			
Lago Patria Receiver Site	Uranium	3	100	0.00058	0.00083			
Lago Patria Receiver Site	Zinc	3	100	0.168	3.49			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Lago Patria Receiver Site	Aluminum	3	100	0.00291	0.0096			
Lago Patria Receiver Site	Antimony	3	66.67	0.000335	0.0005			
Lago Patria Receiver Site	Arsenic	3	100	0.00199	0.00342			
Lago Patria Receiver Site	Barium	3	100	0.0193	0.0447			
Lago Patria Receiver Site	Beryllium	3	66.67	0.0000359	0.0000521			
Lago Patria Receiver Site	Bromoform	3	100	0.00063	0.00095			
Lago Patria Receiver Site	Cadmium (Water)	3	66.67	0.0000417	0.0044			
Lago Patria Receiver Site	Chloride	3	100	8.32	9.5			
Lago Patria Receiver Site	Chlorine (as Cl2)	3	100	0.1	0.1			
Lago Patria Receiver Site	Chloroform	3	33.33	0.000139	0.000139	0.2	0.000695	
Lago Patria Receiver Site	Chromium	3	66.67	0.00056	0.00065			
Lago Patria Receiver Site	Cobalt	3	100	0.00078	0.00319			
Lago Patria Receiver Site	Copper	3	100	0.0685	0.266			
Lago Patria Receiver Site	Dibromochloromethane	3	100	0.000381	0.00053			
Lago Patria Receiver Site	Dissolved Oxygen	3	100	9.15	9.72			
Lago Patria Receiver Site	Fecal Streptococcus	3	100					
Lago Patria Receiver Site	Heterotrophic plate count	3	100		22			
Lago Patria Receiver Site	Iron	3	66.67	0.00832	0.0329			
Lago Patria Receiver Site	Lead	3	100	0.00356	0.0158			
Lago Patria Receiver Site	Manganese (nonfood)	3	100	0.00054	0.0254			
Lago Patria Receiver Site	Nickel	3	100	0.00383	0.191			
Lago Patria Receiver Site	Nitrate (measured as NO3-)	3	100	2.93	3			
Lago Patria Receiver Site	Oxidation Reduction Potential	3	100	593	625			
Lago Patria Receiver Site	Ph	3	100	7.22	7.35			
Lago Patria Receiver Site	Salinity	3	100					
Lago Patria Receiver Site	Silver	3	33.33	0.000122	0.000122			
Lago Patria Receiver Site	Specific Conductance	3	100	0.71	0.75			
Lago Patria Receiver Site	Sulfate	3	100	7.02	7.36			
Lago Patria Receiver Site	Temperature	3	100	21.1	23			
Lago Patria Receiver Site	Thallium	3	66.67	0.00019	0.000221			
Lago Patria Receiver Site	Tin	3	33.33	0.000134	0.000134			
Lago Patria Receiver Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	66.67	3.8E-12	5E-11			
Lago Patria Receiver Site	TOTAL HPCDD	3	100	1.5E-09	2.3E-09			
Lago Patria Receiver Site	TOTAL HPCDF	3	100	0.000000002	3.2E-09			
Lago Patria Receiver Site	TOTAL HXCDD	3	33.33	7.4E-10	7.4E-10			
Lago Patria Receiver Site	TOTAL HXCDF	3	100	1.1E-09	1.9E-09			
Lago Patria Receiver Site	TOTAL PECDF	3	100	5.8E-10	8.9E-10			
Lago Patria Receiver Site	TOTAL TCDD	3	66.67	4.2E-10	7E-10			
Lago Patria Receiver Site	TOTAL TCDF	3	100	3.8E-10	4.6E-10			
Lago Patria Receiver Site	Total Trihalomethanes	3	100	0.001289	0.0014			
Lago Patria Receiver Site	Turbidity	2	100	1	92			
Lago Patria Receiver Site	Uranium	3	100	0.00058	0.00083			
Lago Patria Receiver Site	Zinc	3	100	0.168	3.49			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Lago Patria Receiver Site	Aluminum	3	100	0.00291	0.0096			
Lago Patria Receiver Site	Antimony	3	66.67	0.000335	0.0005	0.006	0.083333333	
Lago Patria Receiver Site	Arsenic	3	100	0.00199	0.00342	0.01	0.342	
Lago Patria Receiver Site	Barium	3	100	0.0193	0.0447	2	0.02235	
Lago Patria Receiver Site	Beryllium	3	66.67	0.0000359	0.0000521	0.004	0.013025	
Lago Patria Receiver Site	Bromoform	3	100	0.00063	0.00095			
Lago Patria Receiver Site	Cadmium (Water)	3	66.67	0.0000417	0.0044	0.005	0.88	
Lago Patria Receiver Site	Chloride	3	100	8.32	9.5			
Lago Patria Receiver Site	Chlorine (as Cl2)	3	100	0.1	0.1	4.01	0.024937656	
Lago Patria Receiver Site	Chloroform	3	33.33	0.000139	0.000139			
Lago Patria Receiver Site	Chromium	3	66.67	0.00056	0.00065	0.1	0.0065	
Lago Patria Receiver Site	Cobalt	3	100	0.00078	0.00319			
Lago Patria Receiver Site	Copper	3	100	0.0685	0.266			
Lago Patria Receiver Site	Dibromochloromethane	3	100	0.000381	0.00053			
Lago Patria Receiver Site	Dissolved Oxygen	3	100	9.15	9.72			
Lago Patria Receiver Site	Fecal Streptococcus	3	100					
Lago Patria Receiver Site	Heterotrophic plate count	3	100		22			
Lago Patria Receiver Site	Iron	3	66.67	0.00832	0.0329			
Lago Patria Receiver Site	Lead	3	100	0.00356	0.0158			
Lago Patria Receiver Site	Manganese (nonfood)	3	100	0.00054	0.0254			
Lago Patria Receiver Site	Nickel	3	100	0.00383	0.191			
Lago Patria Receiver Site	Nitrate (measured as NO3-)	3	100	2.93	3	44.3	0.06772009	
Lago Patria Receiver Site	Oxidation Reduction Potential	3	100	593	625			
Lago Patria Receiver Site	Ph	3	100	7.22	7.35			
Lago Patria Receiver Site	Salinity	3	100					
Lago Patria Receiver Site	Silver	3	33.33	0.000122	0.000122			
Lago Patria Receiver Site	Specific Conductance	3	100	0.71	0.75			
Lago Patria Receiver Site	Sulfate	3	100	7.02	7.36			
Lago Patria Receiver Site	Temperature	3	100	21.1	23			
Lago Patria Receiver Site	Thallium	3	66.67	0.00019	0.000221	0.002	0.1105	
Lago Patria Receiver Site	Tin	3	33.33	0.000134	0.000134			
Lago Patria Receiver Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	3	66.67	3.8E-12	5E-11	0.00000003	0.001666667	
Lago Patria Receiver Site	TOTAL HPCDD	3	100	1.5E-09	2.3E-09			
Lago Patria Receiver Site	TOTAL HPCDF	3	100	0.000000002	3.2E-09			
Lago Patria Receiver Site	TOTAL HXCDD	3	33.33	7.4E-10	7.4E-10			
Lago Patria Receiver Site	TOTAL HXCDF	3	100	1.1E-09	1.9E-09			
Lago Patria Receiver Site	TOTAL PECDF	3	100	5.8E-10	8.9E-10			
Lago Patria Receiver Site	TOTAL TCDD	3	66.67	4.2E-10	7E-10			
Lago Patria Receiver Site	TOTAL TCDF	3	100	3.8E-10	4.6E-10			
Lago Patria Receiver Site	Total Trihalomethanes	3	100	0.001289	0.0014	0.0807	0.017348203	
Lago Patria Receiver Site	Turbidity	2	100	1	92			
Lago Patria Receiver Site	Uranium	3	100	0.00058	0.00083	0.03	0.027666667	
Lago Patria Receiver Site	Zinc	3	100	0.168	3.49			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	1,1,1-trichloroethane	4	50	0.00023	0.000486			
US Consulate	1,1-dichloroethane	4	75	0.000101	0.000182	0.0024	0.075833333	
US Consulate	1,1-dichloroethene	4	25	0.000289	0.000289			
US Consulate	Aluminum	4	50	0.00315	0.00382			
US Consulate	Antimony	4	50	0.000143	0.000444			
US Consulate	Arsenic	4	100	0.0036	0.00541	0.000045	120.2222222	100
US Consulate	Barium	4	100	0.016	0.0182			
US Consulate	Beryllium	4	50	0.0000301	0.0000406			
US Consulate	Bromodichloromethane	4	50	0.000129	0.000421	0.0011	0.382727273	
US Consulate	Bromoform	4	100	0.0038	0.0049	0.0085	0.576470588	
US Consulate	Chloride	4	100	30.2	34			
US Consulate	Chlorine (as Cl2)	4	100	0.066	0.12			
US Consulate	Chloroform	4	100	0.000218	0.000372	0.00019	1.957894737	100
US Consulate	Chromium	4	100	0.000299	0.000661			
US Consulate	cis-1,2-dichloroethene	4	75	0.000258	0.00059			
US Consulate	Cobalt	4	100	0.0000848	0.000119			
US Consulate	Copper	4	100	0.0304	0.278			
US Consulate	Dibromochloromethane	4	100	0.00056	0.00103	0.0008	1.2875	50
US Consulate	Dissolved Oxygen	4	100	8.92	10.16			
US Consulate	Fecal Streptococcus	4	100					
US Consulate	Fluoride	4	100	0.356	0.387			
US Consulate	Heterotrophic plate count	4	100		8			
US Consulate	Iron	4	75	0.00584	0.0148			
US Consulate	Lead	4	100	0.00076	0.00226			
US Consulate	Manganese (nonfood)	4	100	0.00389	0.00677			
US Consulate	Mercury	4	25	0.000016	0.000016			
US Consulate	Nickel	4	100	0.00145	0.00886			
US Consulate	Nitrate (measured as NO3-)	4	100	20	23.5			
US Consulate	Oxidation Reduction Potential	4	100	286	572			
US Consulate	Ph	4	100	6.97	7.6			
US Consulate	Salinity	4	100					
US Consulate	Selenium	4	75	0.000238	0.000381			
US Consulate	Specific Conductance	4	100	0.9	1.1			
US Consulate	Sulfate	4	100	34	40.8			
US Consulate	Temperature	4	100	18.9	21.2			
US Consulate	Tetrachloroethene	4	100	0.000257	0.00057	0.00011	5.181818182	100
US Consulate	Thallium	4	25	0.000257	0.000257			
US Consulate	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	4	100	1.5E-12	1.101E-09	5.2E-10	2.117307692	25
US Consulate	TOTAL HPCDD	4	100	2.2E-09	5.1E-09			
US Consulate	TOTAL HPCDF	4	100	1.4E-09	0.000000017			
US Consulate	TOTAL HXCDD	4	50	1.9E-09	2.3E-09			
US Consulate	TOTAL HXCDF	4	50	5.1E-09	9.2E-09			
US Consulate	TOTAL PECDD	4	25	7.7E-10	7.7E-10			
US Consulate	TOTAL PECDF	4	75	4.4E-10	0.000000002			
US Consulate	TOTAL TCDD	4	50	7.7E-10	8.1E-10			
US Consulate	TOTAL TCDF	4	100	2.8E-10	6.7E-10			
US Consulate	Total Trihalomethanes	4	100	0.004667	0.006157			
US Consulate	Trichloroethene	4	100	0.000719	0.00153	0.0017	0.9	
US Consulate	Turbidity	2	100	1	2			
US Consulate	Uranium	4	100	0.00332	0.00441			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	1,1,1-trichloroethane	4	50	0.00023	0.000486	9.1	5.34066E-05	
US Consulate	1,1-dichloroethane	4	75	0.000101	0.000182	0.91	0.0002	
US Consulate	1,1-dichloroethene	4	25	0.000289	0.000289	0.34	0.00085	
US Consulate	Aluminum	4	50	0.00315	0.00382	37	0.000103243	
US Consulate	Antimony	4	50	0.000143	0.000444	0.015	0.0296	
US Consulate	Arsenic	4	100	0.0036	0.00541	0.011	0.491818182	
US Consulate	Barium	4	100	0.016	0.0182	7.3	0.002493151	
US Consulate	Beryllium	4	50	0.0000301	0.0000406	0.073	0.000556164	
US Consulate	Bromodichloromethane	4	50	0.000129	0.000421	0.73	0.000576712	
US Consulate	Bromoform	4	100	0.0038	0.0049	0.73	0.006712329	
US Consulate	Chloride	4	100	30.2	34			
US Consulate	Chlorine (as Cl2)	4	100	0.066	0.12			
US Consulate	Chloroform	4	100	0.000218	0.000372	0.13	0.002861538	
US Consulate	Chromium	4	100	0.000299	0.000661			
US Consulate	cis-1,2-dichloroethene	4	75	0.000258	0.00059	0.37	0.001594595	
US Consulate	Cobalt	4	100	0.0000848	0.000119			
US Consulate	Copper	4	100	0.0304	0.278	1.5	0.185333333	
US Consulate	Dibromochloromethane	4	100	0.00056	0.00103	0.73	0.001410959	
US Consulate	Dissolved Oxygen	4	100	8.92	10.16			
US Consulate	Fecal Streptococcus	4	100					
US Consulate	Fluoride	4	100	0.356	0.387			
US Consulate	Heterotrophic plate count	4	100		8			
US Consulate	Iron	4	75	0.00584	0.0148	26	0.000569231	
US Consulate	Lead	4	100	0.00076	0.00226	0.02	0.113	
US Consulate	Manganese (nonfood)	4	100	0.00389	0.00677	0.88	0.007693182	
US Consulate	Mercury	4	25	0.000016	0.000016	0.00063	0.025396825	
US Consulate	Nickel	4	100	0.00145	0.00886	0.73	0.012136986	
US Consulate	Nitrate (measured as NO3-)	4	100	20	23.5	255.2	0.092084639	
US Consulate	Oxidation Reduction Potential	4	100	286	572			
US Consulate	Ph	4	100	6.97	7.6			
US Consulate	Salinity	4	100					
US Consulate	Selenium	4	75	0.000238	0.000381	0.18	0.002116667	
US Consulate	Specific Conductance	4	100	0.9	1.1			
US Consulate	Sulfate	4	100	34	40.8			
US Consulate	Temperature	4	100	18.9	21.2			
US Consulate	Tetrachloroethene	4	100	0.000257	0.00057	0.22	0.002590909	
US Consulate	Thallium	4	25	0.000257	0.000257	0.0024	0.107083333	
US Consulate	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	4	100	1.5E-12	1.101E-09	0.000000037	0.029756757	
US Consulate	TOTAL HPCDD	4	100	2.2E-09	5.1E-09			
US Consulate	TOTAL HPCDF	4	100	1.4E-09	0.000000017			
US Consulate	TOTAL HXCDD	4	50	1.9E-09	2.3E-09			
US Consulate	TOTAL HXCDF	4	50	5.1E-09	9.2E-09			
US Consulate	TOTAL PECDD	4	25	7.7E-10	7.7E-10			
US Consulate	TOTAL PECDF	4	75	4.4E-10	0.000000002			
US Consulate	TOTAL TCDD	4	50	7.7E-10	8.1E-10			
US Consulate	TOTAL TCDF	4	100	2.8E-10	6.7E-10			
US Consulate	Total Trihalomethanes	4	100	0.004667	0.006157			
US Consulate	Trichloroethene	4	100	0.000719	0.00153			
US Consulate	Turbidity	2	100	1	2			
US Consulate	Uranium	4	100	0.00332	0.00441	0.11	0.040090909	

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	1,1,1-trichloroethane	4	50	0.00023	0.000486			
US Consulate	1,1-dichloroethane	4	75	0.000101	0.000182	0.003	0.060666667	
US Consulate	1,1-dichloroethene	4	25	0.000289	0.000289			
US Consulate	Aluminum	4	50	0.00315	0.00382			
US Consulate	Antimony	4	50	0.000143	0.000444			
US Consulate	Arsenic	4	100	0.0036	0.00541			
US Consulate	Barium	4	100	0.016	0.0182			
US Consulate	Beryllium	4	50	0.0000301	0.0000406			
US Consulate	Bromodichloromethane	4	50	0.000129	0.000421			
US Consulate	Bromoform	4	100	0.0038	0.0049			
US Consulate	Chloride	4	100	30.2	34			
US Consulate	Chlorine (as Cl2)	4	100	0.066	0.12			
US Consulate	Chloroform	4	100	0.000218	0.000372	0.00021	1.771428571	100
US Consulate	Chromium	4	100	0.000299	0.000661			
US Consulate	cis-1,2-dichloroethene	4	75	0.000258	0.00059			
US Consulate	Cobalt	4	100	0.0000848	0.000119			
US Consulate	Copper	4	100	0.0304	0.278			
US Consulate	Dibromochloromethane	4	100	0.00056	0.00103			
US Consulate	Dissolved Oxygen	4	100	8.92	10.16			
US Consulate	Fecal Streptococcus	4	100					
US Consulate	Fluoride	4	100	0.356	0.387			
US Consulate	Heterotrophic plate count	4	100		8			
US Consulate	Iron	4	75	0.00584	0.0148			
US Consulate	Lead	4	100	0.00076	0.00226			
US Consulate	Manganese (nonfood)	4	100	0.00389	0.00677			
US Consulate	Mercury	4	25	0.000016	0.000016			
US Consulate	Nickel	4	100	0.00145	0.00886			
US Consulate	Nitrate (measured as NO3-)	4	100	20	23.5			
US Consulate	Oxidation Reduction Potential	4	100	286	572			
US Consulate	Ph	4	100	6.97	7.6			
US Consulate	Salinity	4	100					
US Consulate	Selenium	4	75	0.000238	0.000381			
US Consulate	Specific Conductance	4	100	0.9	1.1			
US Consulate	Sulfate	4	100	34	40.8			
US Consulate	Temperature	4	100	18.9	21.2			
US Consulate	Tetrachloroethene	4	100	0.000257	0.00057	0.00082	0.695121951	
US Consulate	Thallium	4	25	0.000257	0.000257			
US Consulate	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	4	100	1.5E-12	1.101E-09			
US Consulate	TOTAL HPCDD	4	100	2.2E-09	5.1E-09			
US Consulate	TOTAL HPCDF	4	100	1.4E-09	0.000000017			
US Consulate	TOTAL HXCDD	4	50	1.9E-09	2.3E-09			
US Consulate	TOTAL HXCDF	4	50	5.1E-09	9.2E-09			
US Consulate	TOTAL PECDD	4	25	7.7E-10	7.7E-10			
US Consulate	TOTAL PECDF	4	75	4.4E-10	0.000000002			
US Consulate	TOTAL TCDD	4	50	7.7E-10	8.1E-10			
US Consulate	TOTAL TCDF	4	100	2.8E-10	6.7E-10			
US Consulate	Total Trihalomethanes	4	100	0.004667	0.006157			
US Consulate	Trichloroethene	4	100	0.000719	0.00153	0.0024	0.6375	
US Consulate	Turbidity	2	100	1	2			
US Consulate	Uranium	4	100	0.00332	0.00441			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	1,1,1-trichloroethane	4	50	0.00023	0.000486	10	0.000486	
US Consulate	1,1-dichloroethane	4	75	0.000101	0.000182	1	0.000182	
US Consulate	1,1-dichloroethene	4	25	0.000289	0.000289	0.42	0.000688095	
US Consulate	Aluminum	4	50	0.00315	0.00382			
US Consulate	Antimony	4	50	0.000143	0.000444			
US Consulate	Arsenic	4	100	0.0036	0.00541			
US Consulate	Barium	4	100	0.016	0.0182			
US Consulate	Beryllium	4	50	0.0000301	0.0000406			
US Consulate	Bromodichloromethane	4	50	0.000129	0.000421			
US Consulate	Bromoform	4	100	0.0038	0.0049			
US Consulate	Chloride	4	100	30.2	34			
US Consulate	Chlorine (as Cl2)	4	100	0.066	0.12			
US Consulate	Chloroform	4	100	0.000218	0.000372	0.2	0.00186	
US Consulate	Chromium	4	100	0.000299	0.000661			
US Consulate	cis-1,2-dichloroethene	4	75	0.000258	0.00059			
US Consulate	Cobalt	4	100	0.0000848	0.000119			
US Consulate	Copper	4	100	0.0304	0.278			
US Consulate	Dibromochloromethane	4	100	0.00056	0.00103			
US Consulate	Dissolved Oxygen	4	100	8.92	10.16			
US Consulate	Fecal Streptococcus	4	100					
US Consulate	Fluoride	4	100	0.356	0.387			
US Consulate	Heterotrophic plate count	4	100		8			
US Consulate	Iron	4	75	0.00584	0.0148			
US Consulate	Lead	4	100	0.00076	0.00226			
US Consulate	Manganese (nonfood)	4	100	0.00389	0.00677			
US Consulate	Mercury	4	25	0.000016	0.000016	0.00063	0.025396825	
US Consulate	Nickel	4	100	0.00145	0.00886			
US Consulate	Nitrate (measured as NO3-)	4	100	20	23.5			
US Consulate	Oxidation Reduction Potential	4	100	286	572			
US Consulate	Ph	4	100	6.97	7.6			
US Consulate	Salinity	4	100					
US Consulate	Selenium	4	75	0.000238	0.000381			
US Consulate	Specific Conductance	4	100	0.9	1.1			
US Consulate	Sulfate	4	100	34	40.8			
US Consulate	Temperature	4	100	18.9	21.2			
US Consulate	Tetrachloroethene	4	100	0.000257	0.00057	0.57	0.001	
US Consulate	Thallium	4	25	0.000257	0.000257			
US Consulate	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	4	100	1.5E-12	1.101E-09			
US Consulate	TOTAL HPCDD	4	100	2.2E-09	5.1E-09			
US Consulate	TOTAL HPCDF	4	100	1.4E-09	0.000000017			
US Consulate	TOTAL HXCDD	4	50	1.9E-09	2.3E-09			
US Consulate	TOTAL HXCDF	4	50	5.1E-09	9.2E-09			
US Consulate	TOTAL PECDD	4	25	7.7E-10	7.7E-10			
US Consulate	TOTAL PECDF	4	75	4.4E-10	0.000000002			
US Consulate	TOTAL TCDD	4	50	7.7E-10	8.1E-10			
US Consulate	TOTAL TCDF	4	100	2.8E-10	6.7E-10			
US Consulate	Total Trihalomethanes	4	100	0.004667	0.006157			
US Consulate	Trichloroethene	4	100	0.000719	0.00153			
US Consulate	Turbidity	2	100	1	2			
US Consulate	Uranium	4	100	0.00332	0.00441			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standards (%)
US Consulate	1,1,1-trichloroethane	4	50	0.00023	0.000486	0.2	0.00243	
US Consulate	1,1-dichloroethane	4	75	0.000101	0.000182			
US Consulate	1,1-dichloroethene	4	25	0.000289	0.000289	0.007	0.041285714	
US Consulate	Aluminum	4	50	0.00315	0.00382			
US Consulate	Antimony	4	50	0.000143	0.000444	0.006	0.074	
US Consulate	Arsenic	4	100	0.0036	0.00541	0.01	0.541	
US Consulate	Barium	4	100	0.016	0.0182	2	0.0091	
US Consulate	Beryllium	4	50	0.0000301	0.0000406	0.004	0.01015	
US Consulate	Bromodichloromethane	4	50	0.000129	0.000421			
US Consulate	Bromoform	4	100	0.0038	0.0049			
US Consulate	Chloride	4	100	30.2	34			
US Consulate	Chlorine (as Cl2)	4	100	0.066	0.12	4.01	0.029925187	
US Consulate	Chloroform	4	100	0.000218	0.000372			
US Consulate	Chromium	4	100	0.000299	0.000661	0.1	0.00661	
US Consulate	cis-1,2-dichloroethene	4	75	0.000258	0.00059	0.07	0.008428571	
US Consulate	Cobalt	4	100	0.0000848	0.000119			
US Consulate	Copper	4	100	0.0304	0.278			
US Consulate	Dibromochloromethane	4	100	0.00056	0.00103			
US Consulate	Dissolved Oxygen	4	100	8.92	10.16			
US Consulate	Fecal Streptococcus	4	100					
US Consulate	Fluoride	4	100	0.356	0.387	4	0.09675	
US Consulate	Heterotrophic plate count	4	100		8			
US Consulate	Iron	4	75	0.00584	0.0148			
US Consulate	Lead	4	100	0.00076	0.00226			
US Consulate	Manganese (nonfood)	4	100	0.00389	0.00677			
US Consulate	Mercury	4	25	0.000016	0.000016	0.002	0.008	
US Consulate	Nickel	4	100	0.00145	0.00886			
US Consulate	Nitrate (measured as NO3-)	4	100	20	23.5	44.3	0.530474041	
US Consulate	Oxidation Reduction Potential	4	100	286	572			
US Consulate	Ph	4	100	6.97	7.6			
US Consulate	Salinity	4	100					
US Consulate	Selenium	4	75	0.000238	0.000381	0.05	0.00762	
US Consulate	Specific Conductance	4	100	0.9	1.1			
US Consulate	Sulfate	4	100	34	40.8			
US Consulate	Temperature	4	100	18.9	21.2			
US Consulate	Tetrachloroethene	4	100	0.000257	0.00057	0.005	0.114	
US Consulate	Thallium	4	25	0.000257	0.000257	0.002	0.1285	
US Consulate	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	4	100	1.5E-12	1.101E-09	0.00000003	0.0367	
US Consulate	TOTAL HPCDD	4	100	2.2E-09	5.1E-09			
US Consulate	TOTAL HPCDF	4	100	1.4E-09	0.000000017			
US Consulate	TOTAL HXCDD	4	50	1.9E-09	2.3E-09			
US Consulate	TOTAL HXCDF	4	50	5.1E-09	9.2E-09			
US Consulate	TOTAL PECDD	4	25	7.7E-10	7.7E-10			
US Consulate	TOTAL PECDF	4	75	4.4E-10	0.000000002			
US Consulate	TOTAL TCDD	4	50	7.7E-10	8.1E-10			
US Consulate	TOTAL TCDF	4	100	2.8E-10	6.7E-10			
US Consulate	Total Trihalomethanes	4	100	0.004667	0.006157	0.0807	0.076294919	
US Consulate	Trichloroethene	4	100	0.000719	0.00153	0.005	0.306	
US Consulate	Turbidity	2	100	1	2			
US Consulate	Uranium	4	100	0.00332	0.00441	0.03	0.147	

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	Vanadium	4	75	0.00104	0.00294			
US Consulate	Zinc	4	100	0.0995	0.297			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	Vanadium	4	75	0.00104	0.00294	0.26	0.011307692	
US Consulate	Zinc	4	100	0.0995	0.297	11	0.027	

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	Vanadium	4	75	0.00104	0.00294			
US Consulate	Zinc	4	100	0.0995	0.297			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	Vanadium	4	75	0.00104	0.00294			
US Consulate	Zinc	4	100	0.0995	0.297			

Table D-2
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Tap Water (mg/l) - Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
US Consulate	Vanadium	4	75	0.00104	0.00294			
US Consulate	Zinc	4	100	0.0995	0.297			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+ Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Aluminum	1	100	0.00399	0.00399			
Capodichino	Antimony	1	100	0.0002	0.0002			
Capodichino	Arsenic	1	100	0.00647	0.00647	0.000045	143.7777778	100
Capodichino	Barium	1	100	0.00984	0.00984			
Capodichino	Beryllium	1	100	0.000147	0.000147			
Capodichino	Chloride	1	100	64.9	64.9			
Capodichino	Chlorine (as Cl2)	1	100	0.1	0.1			
Capodichino	Chloroform	1	100	0.00027	0.00027	0.00019	1.421052632	100
Capodichino	Chromium	1	100	0.00121	0.00121			
Capodichino	cis-1,2-Dichloroethene	1	100	0.000214	0.000214			
Capodichino	Cobalt	1	100	0.0000922	0.0000922			
Capodichino	Copper	1	100	0.00714	0.00714			
Capodichino	Dissolved Oxygen	1	100	8.18	8.18			
Capodichino	Fecal Stptococcus	1	100					
Capodichino	Fluoride	1	100	1.47	1.47			
Capodichino	Heterotrophic plate count	1	100	25	25			
Capodichino	Iron	1	100	0.0222	0.0222			
Capodichino	Lead	1	100	0.00213	0.00213			
Capodichino	Manganese (nonfood)	1	100	0.000904	0.000904			
Capodichino	Nickel	1	100	0.0045	0.0045			
Capodichino	Nitrate (measured as NO3-)	1	100	83.3	83.3			
Capodichino	Oxidation Reduction Potential	1	100	187	187			
Capodichino	Ph	1	100	7.23	7.23			
Capodichino	Salinity	1	100	0.1	0.1			
Capodichino	Selenium	1	100	0.000472	0.000472			
Capodichino	Specific Conductance	1	100	1.2	1.2			
Capodichino	Sulfate	1	100	76	76			
Capodichino	Temperature	1	100	18	18			
Capodichino	Tetrachloroethene	1	100	0.000874	0.000874	0.00011	7.945454545	100
Capodichino	Tin	1	100	0.000111	0.000111			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	1.14E-10	1.14E-10	5.2E-10	0.219230769	
Capodichino	TOTAL HPCDD	1	100	3.4E-09	3.4E-09			
Capodichino	TOTAL HPCDF	1	100	1.9E-09	1.9E-09			
Capodichino	TOTAL PECDF	1	100	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	1	100	4.9E-10	4.9E-10			
Capodichino	Total Trihalomethanes	1	100	0.00027	0.00027			
Capodichino	Trichloroethene	1	100	0.0027	0.0027	0.0017	1.588235294	100
Capodichino	Uranium	1	100	0.0154	0.0154			
Capodichino	Vanadium	1	100	0.0122	0.0122			
Capodichino	Zinc	1	100	0.508	0.508			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+ Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Aluminum	1	100	0.00399	0.00399	37	0.000107838	
Capodichino	Antimony	1	100	0.0002	0.0002	0.015	0.013333333	
Capodichino	Arsenic	1	100	0.00647	0.00647	0.011	0.588181818	
Capodichino	Barium	1	100	0.00984	0.00984	7.3	0.001347945	
Capodichino	Beryllium	1	100	0.000147	0.000147	0.073	0.002013699	
Capodichino	Chloride	1	100	64.9	64.9			
Capodichino	Chlorine (as Cl2)	1	100	0.1	0.1			
Capodichino	Chloroform	1	100	0.00027	0.00027	0.13	0.002076923	
Capodichino	Chromium	1	100	0.00121	0.00121			
Capodichino	cis-1,2-Dichloroethene	1	100	0.000214	0.000214	0.37	0.000578378	
Capodichino	Cobalt	1	100	0.0000922	0.0000922			
Capodichino	Copper	1	100	0.00714	0.00714	1.5	0.00476	
Capodichino	Dissolved Oxygen	1	100	8.18	8.18			
Capodichino	Fecal Streptococcus	1	100					
Capodichino	Fluoride	1	100	1.47	1.47			
Capodichino	Heterotrophic plate count	1	100	25	25			
Capodichino	Iron	1	100	0.0222	0.0222	26	0.000853846	
Capodichino	Lead	1	100	0.00213	0.00213	0.02	0.1065	
Capodichino	Manganese (nonfood)	1	100	0.000904	0.000904	0.88	0.001027273	
Capodichino	Nickel	1	100	0.0045	0.0045	0.73	0.006164384	
Capodichino	Nitrate (measured as NO3-)	1	100	83.3	83.3	255.2	0.326410658	
Capodichino	Oxidation Reduction Potential	1	100	187	187			
Capodichino	Ph	1	100	7.23	7.23			
Capodichino	Salinity	1	100	0.1	0.1			
Capodichino	Selenium	1	100	0.000472	0.000472	0.18	0.002622222	
Capodichino	Specific Conductance	1	100	1.2	1.2			
Capodichino	Sulfate	1	100	76	76			
Capodichino	Temperature	1	100	18	18			
Capodichino	Tetrachloroethene	1	100	0.000874	0.000874	0.22	0.003972727	
Capodichino	Tin	1	100	0.000111	0.000111	22	5.04545E-06	
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	1.14E-10	1.14E-10	0.000000037	0.003081081	
Capodichino	TOTAL HPCDD	1	100	3.4E-09	3.4E-09			
Capodichino	TOTAL HPCDF	1	100	1.9E-09	1.9E-09			
Capodichino	TOTAL PECDF	1	100	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	1	100	4.9E-10	4.9E-10			
Capodichino	Total Trihalomethanes	1	100	0.00027	0.00027			
Capodichino	Trichloroethene	1	100	0.0027	0.0027			
Capodichino	Uranium	1	100	0.0154	0.0154	0.11	0.14	
Capodichino	Vanadium	1	100	0.0122	0.0122	0.26	0.046923077	
Capodichino	Zinc	1	100	0.508	0.508	11	0.046181818	

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Aluminum	1	100	0.00399	0.00399			
Capodichino	Antimony	1	100	0.0002	0.0002			
Capodichino	Arsenic	1	100	0.00647	0.00647			
Capodichino	Barium	1	100	0.00984	0.00984			
Capodichino	Beryllium	1	100	0.000147	0.000147			
Capodichino	Chloride	1	100	64.9	64.9			
Capodichino	Chlorine (as Cl2)	1	100	0.1	0.1			
Capodichino	Chloroform	1	100	0.00027	0.00027	0.00021	1.285714286	100
Capodichino	Chromium	1	100	0.00121	0.00121			
Capodichino	cis-1,2-Dichloroethene	1	100	0.000214	0.000214			
Capodichino	Cobalt	1	100	0.0000922	0.0000922			
Capodichino	Copper	1	100	0.00714	0.00714			
Capodichino	Dissolved Oxygen	1	100	8.18	8.18			
Capodichino	Fecal Steptococcus	1	100					
Capodichino	Fluoride	1	100	1.47	1.47			
Capodichino	Heterotrophic plate count	1	100	25	25			
Capodichino	Iron	1	100	0.0222	0.0222			
Capodichino	Lead	1	100	0.00213	0.00213			
Capodichino	Manganese (nonfood)	1	100	0.000904	0.000904			
Capodichino	Nickel	1	100	0.0045	0.0045			
Capodichino	Nitrate (measured as NO3-)	1	100	83.3	83.3			
Capodichino	Oxidation Reduction Potential	1	100	187	187			
Capodichino	Ph	1	100	7.23	7.23			
Capodichino	Salinity	1	100	0.1	0.1			
Capodichino	Selenium	1	100	0.000472	0.000472			
Capodichino	Specific Conductance	1	100	1.2	1.2			
Capodichino	Sulfate	1	100	76	76			
Capodichino	Temperature	1	100	18	18			
Capodichino	Tetrachloroethene	1	100	0.000874	0.000874	0.00082	1.065853659	100
Capodichino	Tin	1	100	0.000111	0.000111			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	1.14E-10	1.14E-10			
Capodichino	TOTAL HPCDD	1	100	3.4E-09	3.4E-09			
Capodichino	TOTAL HPCDF	1	100	1.9E-09	1.9E-09			
Capodichino	TOTAL PCDF	1	100	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	1	100	4.9E-10	4.9E-10			
Capodichino	Total Trihalomethanes	1	100	0.00027	0.00027			
Capodichino	Trichloroethene	1	100	0.0027	0.0027	0.0024	1.125	100
Capodichino	Uranium	1	100	0.0154	0.0154			
Capodichino	Vanadium	1	100	0.0122	0.0122			
Capodichino	Zinc	1	100	0.508	0.508			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Aluminum	1	100	0.00399	0.00399			
Capodichino	Antimony	1	100	0.0002	0.0002			
Capodichino	Arsenic	1	100	0.00647	0.00647			
Capodichino	Barium	1	100	0.00984	0.00984			
Capodichino	Beryllium	1	100	0.000147	0.000147			
Capodichino	Chloride	1	100	64.9	64.9			
Capodichino	Chlorine (as Cl2)	1	100	0.1	0.1			
Capodichino	Chloroform	1	100	0.00027	0.00027	0.2	0.00135	
Capodichino	Chromium	1	100	0.00121	0.00121			
Capodichino	cis-1,2-Dichloroethene	1	100	0.000214	0.000214			
Capodichino	Cobalt	1	100	0.0000922	0.0000922			
Capodichino	Copper	1	100	0.00714	0.00714			
Capodichino	Dissolved Oxygen	1	100	8.18	8.18			
Capodichino	Fecal Streptococcus	1	100					
Capodichino	Fluoride	1	100	1.47	1.47			
Capodichino	Heterotrophic plate count	1	100	25	25			
Capodichino	Iron	1	100	0.0222	0.0222			
Capodichino	Lead	1	100	0.00213	0.00213			
Capodichino	Manganese (nonfood)	1	100	0.000904	0.000904			
Capodichino	Nickel	1	100	0.0045	0.0045			
Capodichino	Nitrate (measured as NO3-)	1	100	83.3	83.3			
Capodichino	Oxidation Reduction Potential	1	100	187	187			
Capodichino	Ph	1	100	7.23	7.23			
Capodichino	Salinity	1	100	0.1	0.1			
Capodichino	Selenium	1	100	0.000472	0.000472			
Capodichino	Specific Conductance	1	100	1.2	1.2			
Capodichino	Sulfate	1	100	76	76			
Capodichino	Temperature	1	100	18	18			
Capodichino	Tetrachloroethene	1	100	0.000874	0.000874	0.57	0.001533333	
Capodichino	Tin	1	100	0.000111	0.000111			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	1.14E-10	1.14E-10			
Capodichino	TOTAL HPCDD	1	100	3.4E-09	3.4E-09			
Capodichino	TOTAL HPCDF	1	100	1.9E-09	1.9E-09			
Capodichino	TOTAL PECDF	1	100	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	1	100	4.9E-10	4.9E-10			
Capodichino	Total Trihalomethanes	1	100	0.00027	0.00027			
Capodichino	Trichloroethene	1	100	0.0027	0.0027			
Capodichino	Uranium	1	100	0.0154	0.0154			
Capodichino	Vanadium	1	100	0.0122	0.0122			
Capodichino	Zinc	1	100	0.508	0.508			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Capodichino	Aluminum	1	100	0.00399	0.00399			
Capodichino	Antimony	1	100	0.0002	0.0002	0.006	0.033333333	
Capodichino	Arsenic	1	100	0.00647	0.00647	0.01	0.647	
Capodichino	Barium	1	100	0.00984	0.00984	2	0.00492	
Capodichino	Beryllium	1	100	0.000147	0.000147	0.004	0.03675	
Capodichino	Chloride	1	100	64.9	64.9			
Capodichino	Chlorine (as Cl2)	1	100	0.1	0.1	4.01	0.024937656	
Capodichino	Chloroform	1	100	0.00027	0.00027			
Capodichino	Chromium	1	100	0.00121	0.00121	0.1	0.0121	
Capodichino	cis-1,2-Dichloroethene	1	100	0.000214	0.000214	0.07	0.003057143	
Capodichino	Cobalt	1	100	0.0000922	0.0000922			
Capodichino	Copper	1	100	0.00714	0.00714			
Capodichino	Dissolved Oxygen	1	100	8.18	8.18			
Capodichino	Fecal Streptococcus	1	100					
Capodichino	Fluoride	1	100	1.47	1.47	4	0.3675	
Capodichino	Heterotrophic plate count	1	100	25	25			
Capodichino	Iron	1	100	0.0222	0.0222			
Capodichino	Lead	1	100	0.00213	0.00213			
Capodichino	Manganese (nonfood)	1	100	0.000904	0.000904			
Capodichino	Nickel	1	100	0.0045	0.0045			
Capodichino	Nitrate (measured as NO3-)	1	100	83.3	83.3	44.3	1.880361174	100
Capodichino	Oxidation Reduction Potential	1	100	187	187			
Capodichino	Ph	1	100	7.23	7.23			
Capodichino	Salinity	1	100	0.1	0.1			
Capodichino	Selenium	1	100	0.000472	0.000472	0.05	0.00944	
Capodichino	Specific Conductance	1	100	1.2	1.2			
Capodichino	Sulfate	1	100	76	76			
Capodichino	Temperature	1	100	18	18			
Capodichino	Tetrachloroethene	1	100	0.000874	0.000874	0.005	0.1748	
Capodichino	Tin	1	100	0.000111	0.000111			
Capodichino	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	1	100	1.14E-10	1.14E-10	0.00000003	0.0038	
Capodichino	TOTAL HPCDD	1	100	3.4E-09	3.4E-09			
Capodichino	TOTAL HPCDF	1	100	1.9E-09	1.9E-09			
Capodichino	TOTAL PECDF	1	100	6.5E-10	6.5E-10			
Capodichino	TOTAL TCDF	1	100	4.9E-10	4.9E-10			
Capodichino	Total Trihalomethanes	1	100	0.00027	0.00027	0.0807	0.003345725	
Capodichino	Trichloroethene	1	100	0.0027	0.0027	0.005	0.54	
Capodichino	Uranium	1	100	0.0154	0.0154	0.03	0.513333333	
Capodichino	Vanadium	1	100	0.0122	0.0122			
Capodichino	Zinc	1	100	0.508	0.508			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+ Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	2	50	0.0225	0.0225			
Carney Park	Antimony	2	100	0.000326	0.000602			
Carney Park	Arsenic	2	100	0.01595	0.0227	0.000045	504.4444444	100
Carney Park	Barium	2	100	0.00096	0.00199			
Carney Park	Beryllium	2	100	0.0000824	0.0000839			
Carney Park	Chloride	2	100	27.6	48.85			
Carney Park	Chlorine (as Cl2)	2	100					
Carney Park	Chloroform	2	50	0.00553	0.00553	0.00019	29.10526316	50
Carney Park	Chromium	2	100	0.000539	0.000596			
Carney Park	Cobalt	2	50	0.00004465	0.00004465			
Carney Park	Copper	2	50	0.00124	0.00124			
Carney Park	Dissolved Oxygen	2	100	9.81	11.52			
Carney Park	Fecal Steptococcus	2	100		0.5			
Carney Park	Fluoride	2	100	1.555	3.89			
Carney Park	Heterotrophic plate count	2	100	7	59			
Carney Park	Iron	2	100	0.0166	0.0221			
Carney Park	Lead	2	100	0.0000497	0.000142			
Carney Park	Manganese (nonfood)	2	100	0.00119	0.0015			
Carney Park	Nickel	2	100	0.0007595	0.00128			
Carney Park	Nitrate (measured as NO3-)	2	100	30.7	68.9			
Carney Park	Oxidation Reduction Potential	2	100	342	383			
Carney Park	Ph	2	100	6.55	6.72			
Carney Park	Salinity	2	100					
Carney Park	Selenium	2	100	0.000668	0.000733			
Carney Park	Specific Conductance	2	100	0.6	0.75			
Carney Park	Sulfate	2	100	26.2	39.1			
Carney Park	Temperature	2	100	18.47	19.04			
Carney Park	Tetrachloroethene	2	50	0.0003295	0.0003295	0.00011	2.995454545	50
Carney Park	Total Coliforms (including fecal coliform and E. C	2	50	6.4	6.4			
Carney Park	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	8.566E-10	8.566E-10	5.2E-10	1.647307692	50
Carney Park	TOTAL HPCDF	2	50	0.000000016	0.000000016			
Carney Park	TOTAL HXCDF	2	50	2.5E-09	2.5E-09			
Carney Park	Total Trihalomethanes	2	50	0.00553	0.00553			
Carney Park	Turbidity	2	100	14	96			
Carney Park	Uranium	2	100	0.00159	0.003935			
Carney Park	Vanadium	2	100	0.0208	0.0359			
Carney Park	Zinc	2	100	0.0151	0.133			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+ Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	2	50	0.0225	0.0225	37	0.000608108	
Carney Park	Antimony	2	100	0.000326	0.000602	0.015	0.040133333	
Carney Park	Arsenic	2	100	0.01595	0.0227	0.011	2.063636364	100
Carney Park	Barium	2	100	0.00096	0.00199	7.3	0.000272603	
Carney Park	Beryllium	2	100	0.0000824	0.0000839	0.073	0.001149315	
Carney Park	Chloride	2	100	27.6	48.85			
Carney Park	Chlorine (as Cl2)	2	100					
Carney Park	Chloroform	2	50	0.00553	0.00553	0.13	0.042538462	
Carney Park	Chromium	2	100	0.000539	0.000596			
Carney Park	Cobalt	2	50	0.00004465	0.00004465			
Carney Park	Copper	2	50	0.00124	0.00124	1.5	0.000826667	
Carney Park	Dissolved Oxygen	2	100	9.81	11.52			
Carney Park	Fecal Steptococcus	2	100		0.5			
Carney Park	Fluoride	2	100	1.555	3.89			
Carney Park	Heterotrophic plate count	2	100	7	59			
Carney Park	Iron	2	100	0.0166	0.0221	26	0.00085	
Carney Park	Lead	2	100	0.0000497	0.000142	0.02	0.0071	
Carney Park	Manganese (nonfood)	2	100	0.00119	0.0015	0.88	0.001704545	
Carney Park	Nickel	2	100	0.0007595	0.00128	0.73	0.001753425	
Carney Park	Nitrate (measured as NO3-)	2	100	30.7	68.9	255.2	0.269984326	
Carney Park	Oxidation Reduction Potential	2	100	342	383			
Carney Park	Ph	2	100	6.55	6.72			
Carney Park	Salinity	2	100					
Carney Park	Selenium	2	100	0.000668	0.000733	0.18	0.004072222	
Carney Park	Specific Conductance	2	100	0.6	0.75			
Carney Park	Sulfate	2	100	26.2	39.1			
Carney Park	Temperature	2	100	18.47	19.04			
Carney Park	Tetrachloroethene	2	50	0.0003295	0.0003295	0.22	0.001497727	
Carney Park	Total Coliforms (including fecal coliform and E. C	2	50	6.4	6.4			
Carney Park	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	8.566E-10	8.566E-10	0.000000037	0.023151351	
Carney Park	TOTAL HPCDF	2	50	0.000000016	0.000000016			
Carney Park	TOTAL HXCDF	2	50	2.5E-09	2.5E-09			
Carney Park	Total Trihalomethanes	2	50	0.00553	0.00553			
Carney Park	Turbidity	2	100	14	96			
Carney Park	Uranium	2	100	0.00159	0.003935	0.11	0.035772727	
Carney Park	Vanadium	2	100	0.0208	0.0359	0.26	0.138076923	
Carney Park	Zinc	2	100	0.0151	0.133	11	0.012090909	

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	2	50	0.0225	0.0225			
Carney Park	Antimony	2	100	0.000326	0.000602			
Carney Park	Arsenic	2	100	0.01595	0.0227			
Carney Park	Barium	2	100	0.00096	0.00199			
Carney Park	Beryllium	2	100	0.0000824	0.0000839			
Carney Park	Chloride	2	100	27.6	48.85			
Carney Park	Chlorine (as Cl2)	2	100					
Carney Park	Chloroform	2	50	0.00553	0.00553	0.00021	26.33333333	50
Carney Park	Chromium	2	100	0.000539	0.000596			
Carney Park	Cobalt	2	50	0.00004465	0.00004465			
Carney Park	Copper	2	50	0.00124	0.00124			
Carney Park	Dissolved Oxygen	2	100	9.81	11.52			
Carney Park	Fecal Steptococcus	2	100		0.5			
Carney Park	Fluoride	2	100	1.555	3.89			
Carney Park	Heterotrophic plate count	2	100	7	59			
Carney Park	Iron	2	100	0.0166	0.0221			
Carney Park	Lead	2	100	0.0000497	0.000142			
Carney Park	Manganese (nonfood)	2	100	0.00119	0.0015			
Carney Park	Nickel	2	100	0.0007595	0.00128			
Carney Park	Nitrate (measured as NO3-)	2	100	30.7	68.9			
Carney Park	Oxidation Reduction Potential	2	100	342	383			
Carney Park	Ph	2	100	6.55	6.72			
Carney Park	Salinity	2	100					
Carney Park	Selenium	2	100	0.000668	0.000733			
Carney Park	Specific Conductance	2	100	0.6	0.75			
Carney Park	Sulfate	2	100	26.2	39.1			
Carney Park	Temperature	2	100	18.47	19.04			
Carney Park	Tetrachloroethene	2	50	0.0003295	0.0003295	0.00082	0.401829268	
Carney Park	Total Coliforms (including fecal coliform and E. C	2	50	6.4	6.4			
Carney Park	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	8.566E-10	8.566E-10			
Carney Park	TOTAL HPCDF	2	50	0.000000016	0.000000016			
Carney Park	TOTAL HXCDF	2	50	2.5E-09	2.5E-09			
Carney Park	Total Trihalomethanes	2	50	0.00553	0.00553			
Carney Park	Turbidity	2	100	14	96			
Carney Park	Uranium	2	100	0.00159	0.003935			
Carney Park	Vanadium	2	100	0.0208	0.0359			
Carney Park	Zinc	2	100	0.0151	0.133			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	2	50	0.0225	0.0225			
Carney Park	Antimony	2	100	0.000326	0.000602			
Carney Park	Arsenic	2	100	0.01595	0.0227			
Carney Park	Barium	2	100	0.00096	0.00199			
Carney Park	Beryllium	2	100	0.0000824	0.0000839			
Carney Park	Chloride	2	100	27.6	48.85			
Carney Park	Chlorine (as Cl2)	2	100					
Carney Park	Chloroform	2	50	0.00553	0.00553	0.2	0.02765	
Carney Park	Chromium	2	100	0.000539	0.000596			
Carney Park	Cobalt	2	50	0.00004465	0.00004465			
Carney Park	Copper	2	50	0.00124	0.00124			
Carney Park	Dissolved Oxygen	2	100	9.81	11.52			
Carney Park	Fecal Steptococcus	2	100		0.5			
Carney Park	Fluoride	2	100	1.555	3.89			
Carney Park	Heterotrophic plate count	2	100	7	59			
Carney Park	Iron	2	100	0.0166	0.0221			
Carney Park	Lead	2	100	0.0000497	0.000142			
Carney Park	Manganese (nonfood)	2	100	0.00119	0.0015			
Carney Park	Nickel	2	100	0.0007595	0.00128			
Carney Park	Nitrate (measured as NO3-)	2	100	30.7	68.9			
Carney Park	Oxidation Reduction Potential	2	100	342	383			
Carney Park	Ph	2	100	6.55	6.72			
Carney Park	Salinity	2	100					
Carney Park	Selenium	2	100	0.000668	0.000733			
Carney Park	Specific Conductance	2	100	0.6	0.75			
Carney Park	Sulfate	2	100	26.2	39.1			
Carney Park	Temperature	2	100	18.47	19.04			
Carney Park	Tetrachloroethene	2	50	0.0003295	0.0003295	0.57	0.00057807	
Carney Park	Total Coliforms (including fecal coliform and E. C	2	50	6.4	6.4			
Carney Park	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	8.566E-10	8.566E-10			
Carney Park	TOTAL HPCDF	2	50	0.000000016	0.000000016			
Carney Park	TOTAL HXCDF	2	50	2.5E-09	2.5E-09			
Carney Park	Total Trihalomethanes	2	50	0.00553	0.00553			
Carney Park	Turbidity	2	100	14	96			
Carney Park	Uranium	2	100	0.00159	0.003935			
Carney Park	Vanadium	2	100	0.0208	0.0359			
Carney Park	Zinc	2	100	0.0151	0.133			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Carney Park	Aluminum	2	50	0.0225	0.0225			
Carney Park	Antimony	2	100	0.000326	0.000602	0.006	0.100333333	
Carney Park	Arsenic	2	100	0.01595	0.0227	0.01	2.27	100
Carney Park	Barium	2	100	0.00096	0.00199	2	0.000995	
Carney Park	Beryllium	2	100	0.0000824	0.0000839	0.004	0.020975	
Carney Park	Chloride	2	100	27.6	48.85			
Carney Park	Chlorine (as Cl2)	2	100			4.01		
Carney Park	Chloroform	2	50	0.00553	0.00553			
Carney Park	Chromium	2	100	0.000539	0.000596	0.1	0.00596	
Carney Park	Cobalt	2	50	0.00004465	0.00004465			
Carney Park	Copper	2	50	0.00124	0.00124			
Carney Park	Dissolved Oxygen	2	100	9.81	11.52			
Carney Park	Fecal Streptococcus	2	100		0.5			
Carney Park	Fluoride	2	100	1.555	3.89	4	0.9725	
Carney Park	Heterotrophic plate count	2	100	7	59			
Carney Park	Iron	2	100	0.0166	0.0221			
Carney Park	Lead	2	100	0.0000497	0.000142			
Carney Park	Manganese (nonfood)	2	100	0.00119	0.0015			
Carney Park	Nickel	2	100	0.0007595	0.00128			
Carney Park	Nitrate (measured as NO3-)	2	100	30.7	68.9	44.3	1.55530474	50
Carney Park	Oxidation Reduction Potential	2	100	342	383			
Carney Park	Ph	2	100	6.55	6.72			
Carney Park	Salinity	2	100					
Carney Park	Selenium	2	100	0.000668	0.000733	0.05	0.01466	
Carney Park	Specific Conductance	2	100	0.6	0.75			
Carney Park	Sulfate	2	100	26.2	39.1			
Carney Park	Temperature	2	100	18.47	19.04			
Carney Park	Tetrachloroethene	2	50	0.0003295	0.0003295	0.005	0.0659	
Carney Park	Total Coliforms (including fecal coliform and E. C	2	50	6.4	6.4		1.1	50
Carney Park	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	2	50	8.566E-10	8.566E-10	0.00000003	0.028553333	
Carney Park	TOTAL HPCDF	2	50	0.00000016	0.00000016			
Carney Park	TOTAL HXCDF	2	50	2.5E-09	2.5E-09			
Carney Park	Total Trihalomethanes	2	50	0.00553	0.00553	0.0807	0.068525403	
Carney Park	Turbidity	2	100	14	96			
Carney Park	Uranium	2	100	0.00159	0.003935	0.03	0.131166667	
Carney Park	Vanadium	2	100	0.0208	0.0359			
Carney Park	Zinc	2	100	0.0151	0.133			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+ Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	1,1,1-Trichloroethane	9	77.78	0.000199	0.00108			
Gricignano Support Site	1,1-Dichloroethene	9	66.67	0.000132	0.00121			
Gricignano Support Site	Acetone	9	11.11	0.00101	0.00101			
Gricignano Support Site	Aluminum	9	66.67	0.00248	0.4			
Gricignano Support Site	Antimony	9	88.89	0.000152	0.000236			
Gricignano Support Site	Arsenic	9	100	0.00293	0.00697	0.000045	154.8888889	100
Gricignano Support Site	Barium	9	100	0.00863	0.0239			
Gricignano Support Site	Beryllium	9	88.89	0.0000861	0.000215			
Gricignano Support Site	Bromodichloromethane	9	11.11	0.000187	0.000187	0.0011	0.17	
Gricignano Support Site	Cadmium (Water)	9	44.44	0.0000449	0.000102			
Gricignano Support Site	Chloride	9	100	55.8	94.2			
Gricignano Support Site	Chlorine (as Cl2)	9	100		0.1			
Gricignano Support Site	Chromium	9	100	0.000425	0.000959			
Gricignano Support Site	Cobalt	9	100	0.000122	0.000311			
Gricignano Support Site	Copper	9	100	0.000814	0.0479			
Gricignano Support Site	Dichlorodifluoromethane (Freon 12)	9	11.11	0.000216	0.000216			
Gricignano Support Site	Dissolved Oxygen	9	100	6.04	8.85			
Gricignano Support Site	Fecal Steptococcus	9	100		17			
Gricignano Support Site	Fluoride	9	100	1.31	2.29			
Gricignano Support Site	Heterotrophic plate count	9	100	164	7040			
Gricignano Support Site	Iron	9	100	0.00525	0.573			
Gricignano Support Site	Lead	9	100	0.000461	0.019			
Gricignano Support Site	Manganese (nonfood)	9	100	0.000238	0.0291			
Gricignano Support Site	Nickel	9	88.89	0.000612	0.655			
Gricignano Support Site	Nitrate (measured as NO3-)	9	100	68.4	117			
Gricignano Support Site	Nitrite (measured as NO2-)	9	22.22	2.42	6.34			
Gricignano Support Site	Oxidation Reduction Potential	9	100	70	351			
Gricignano Support Site	Ph	9	100	6.84	7.57			
Gricignano Support Site	Salinity	9	100	0.1	0.1			
Gricignano Support Site	Selenium	9	100	0.000665	0.00121			
Gricignano Support Site	Specific Conductance	9	100	1.3	1.81			
Gricignano Support Site	Sulfate	9	100	101	129			
Gricignano Support Site	Temperature	9	100	20.8	33.41			
Gricignano Support Site	Tetrachloroethene	9	55.56	0.000267	0.000597	0.00011	5.427272727	55.55555556
Gricignano Support Site	Tin	9	22.22	0.000145	0.000234			
Gricignano Support Site	Total Coliforms (including fecal coliform and E. C	9	55.56	1	200.5			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	9	77.78	1.06E-10	5.4115E-09	5.2E-10	10.40673077	33.33333333
Gricignano Support Site	TOTAL HPCDD	9	88.89	1.1E-09	0.00000004			
Gricignano Support Site	TOTAL HPCDF	9	88.89	2.1E-09	0.00000013			
Gricignano Support Site	TOTAL HXCDD	9	11.11	3.6E-09	3.6E-09			
Gricignano Support Site	TOTAL HXCDF	9	22.22	0.000000025	0.000000068			
Gricignano Support Site	TOTAL PECDD	9	22.22	5.2E-10	7E-10			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+ Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	1,1,1-Trichloroethane	9	77.78	0.000199	0.00108	9.1	0.000118681	
Gricignano Support Site	1,1-Dichloroethene	9	66.67	0.000132	0.00121	0.34	0.003558824	
Gricignano Support Site	Acetone	9	11.11	0.00101	0.00101	22	4.59091E-05	
Gricignano Support Site	Aluminum	9	66.67	0.00248	0.4	37	0.010810811	
Gricignano Support Site	Antimony	9	88.89	0.000152	0.000236	0.015	0.015733333	
Gricignano Support Site	Arsenic	9	100	0.00293	0.00697	0.011	0.633636364	
Gricignano Support Site	Barium	9	100	0.00863	0.0239	7.3	0.003273973	
Gricignano Support Site	Beryllium	9	88.89	0.0000861	0.000215	0.073	0.002945205	
Gricignano Support Site	Bromodichloromethane	9	11.11	0.000187	0.000187	0.73	0.000256164	
Gricignano Support Site	Cadmium (Water)	9	44.44	0.0000449	0.000102	0.018	0.005666667	
Gricignano Support Site	Chloride	9	100	55.8	94.2			
Gricignano Support Site	Chlorine (as Cl2)	9	100		0.1			
Gricignano Support Site	Chromium	9	100	0.000425	0.000959			
Gricignano Support Site	Cobalt	9	100	0.000122	0.000311			
Gricignano Support Site	Copper	9	100	0.000814	0.0479	1.5	0.031933333	
Gricignano Support Site	Dichlorodifluoromethane (Freon 12)	9	11.11	0.000216	0.000216	0.39	0.000553846	
Gricignano Support Site	Dissolved Oxygen	9	100	6.04	8.85			
Gricignano Support Site	Fecal Steptococcus	9	100		17			
Gricignano Support Site	Fluoride	9	100	1.31	2.29			
Gricignano Support Site	Heterotrophic plate count	9	100	164	7040			
Gricignano Support Site	Iron	9	100	0.00525	0.573	26	0.022038462	
Gricignano Support Site	Lead	9	100	0.000461	0.019	0.02	0.95	
Gricignano Support Site	Manganese (nonfood)	9	100	0.000238	0.0291	0.88	0.033068182	
Gricignano Support Site	Nickel	9	88.89	0.000612	0.655	0.73	0.897260274	
Gricignano Support Site	Nitrate (measured as NO3-)	9	100	68.4	117	255.2	0.45846395	
Gricignano Support Site	Nitrite (measured as NO2-)	9	22.22	2.42	6.34	12.21	0.519246519	
Gricignano Support Site	Oxidation Reduction Potential	9	100	70	351			
Gricignano Support Site	Ph	9	100	6.84	7.57			
Gricignano Support Site	Salinity	9	100	0.1	0.1			
Gricignano Support Site	Selenium	9	100	0.000665	0.00121	0.18	0.006722222	
Gricignano Support Site	Specific Conductance	9	100	1.3	1.81			
Gricignano Support Site	Sulfate	9	100	101	129			
Gricignano Support Site	Temperature	9	100	20.8	33.41			
Gricignano Support Site	Tetrachloroethene	9	55.56	0.000267	0.000597	0.22	0.002713636	
Gricignano Support Site	Tin	9	22.22	0.000145	0.000234	22	1.06364E-05	
Gricignano Support Site	Total Coliforms (including fecal coliform and E. C	9	55.56	1	200.5			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	9	77.78	1.06E-10	5.4115E-09	0.000000037	0.146256757	
Gricignano Support Site	TOTAL HPCDD	9	88.89	1.1E-09	0.00000004			
Gricignano Support Site	TOTAL HPCDF	9	88.89	2.1E-09	0.00000013			
Gricignano Support Site	TOTAL HXCDD	9	11.11	3.6E-09	3.6E-09			
Gricignano Support Site	TOTAL HXCDF	9	22.22	0.000000025	0.000000068			
Gricignano Support Site	TOTAL PECDD	9	22.22	5.2E-10	7E-10			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	1,1,1-Trichloroethane	9	77.78	0.000199	0.00108			
Gricignano Support Site	1,1-Dichloroethene	9	66.67	0.000132	0.00121			
Gricignano Support Site	Acetone	9	11.11	0.00101	0.00101			
Gricignano Support Site	Aluminum	9	66.67	0.00248	0.4			
Gricignano Support Site	Antimony	9	88.89	0.000152	0.000236			
Gricignano Support Site	Arsenic	9	100	0.00293	0.00697			
Gricignano Support Site	Barium	9	100	0.00863	0.0239			
Gricignano Support Site	Beryllium	9	88.89	0.0000861	0.000215			
Gricignano Support Site	Bromodichloromethane	9	11.11	0.000187	0.000187			
Gricignano Support Site	Cadmium (Water)	9	44.44	0.0000449	0.000102			
Gricignano Support Site	Chloride	9	100	55.8	94.2			
Gricignano Support Site	Chlorine (as Cl2)	9	100		0.1			
Gricignano Support Site	Chromium	9	100	0.000425	0.000959			
Gricignano Support Site	Cobalt	9	100	0.000122	0.000311			
Gricignano Support Site	Copper	9	100	0.000814	0.0479			
Gricignano Support Site	Dichlorodifluoromethane (Freon 12)	9	11.11	0.000216	0.000216			
Gricignano Support Site	Dissolved Oxygen	9	100	6.04	8.85			
Gricignano Support Site	Fecal Steptococcus	9	100		17			
Gricignano Support Site	Fluoride	9	100	1.31	2.29			
Gricignano Support Site	Heterotrophic plate count	9	100	164	7040			
Gricignano Support Site	Iron	9	100	0.00525	0.573			
Gricignano Support Site	Lead	9	100	0.000461	0.019			
Gricignano Support Site	Manganese (nonfood)	9	100	0.000238	0.0291			
Gricignano Support Site	Nickel	9	88.89	0.000612	0.655			
Gricignano Support Site	Nitrate (measured as NO3-)	9	100	68.4	117			
Gricignano Support Site	Nitrite (measured as NO2-)	9	22.22	2.42	6.34			
Gricignano Support Site	Oxidation Reduction Potential	9	100	70	351			
Gricignano Support Site	Ph	9	100	6.84	7.57			
Gricignano Support Site	Salinity	9	100	0.1	0.1			
Gricignano Support Site	Selenium	9	100	0.000665	0.00121			
Gricignano Support Site	Specific Conductance	9	100	1.3	1.81			
Gricignano Support Site	Sulfate	9	100	101	129			
Gricignano Support Site	Temperature	9	100	20.8	33.41			
Gricignano Support Site	Tetrachloroethene	9	55.56	0.000267	0.000597	0.00082	0.72804878	
Gricignano Support Site	Tin	9	22.22	0.000145	0.000234			
Gricignano Support Site	Total Coliforms (including fecal coliform and E. C	9	55.56	1	200.5			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	9	77.78	1.06E-10	5.4115E-09			
Gricignano Support Site	TOTAL HPCDD	9	88.89	1.1E-09	0.00000004			
Gricignano Support Site	TOTAL HPCDF	9	88.89	2.1E-09	0.00000013			
Gricignano Support Site	TOTAL HXCDD	9	11.11	3.6E-09	3.6E-09			
Gricignano Support Site	TOTAL HXCDF	9	22.22	0.000000025	0.000000068			
Gricignano Support Site	TOTAL PECDD	9	22.22	5.2E-10	7E-10			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	1,1,1-Trichloroethane	9	77.78	0.000199	0.00108	10	0.000108	
Gricignano Support Site	1,1-Dichloroethene	9	66.67	0.000132	0.00121	0.42	0.002880952	
Gricignano Support Site	Acetone	9	11.11	0.00101	0.00101	64	1.57813E-05	
Gricignano Support Site	Aluminum	9	66.67	0.00248	0.4			
Gricignano Support Site	Antimony	9	88.89	0.000152	0.000236			
Gricignano Support Site	Arsenic	9	100	0.00293	0.00697			
Gricignano Support Site	Barium	9	100	0.00863	0.0239			
Gricignano Support Site	Beryllium	9	88.89	0.0000861	0.000215			
Gricignano Support Site	Bromodichloromethane	9	11.11	0.000187	0.000187			
Gricignano Support Site	Cadmium (Water)	9	44.44	0.0000449	0.000102			
Gricignano Support Site	Chloride	9	100	55.8	94.2			
Gricignano Support Site	Chlorine (as Cl2)	9	100		0.1			
Gricignano Support Site	Chromium	9	100	0.000425	0.000959			
Gricignano Support Site	Cobalt	9	100	0.000122	0.000311			
Gricignano Support Site	Copper	9	100	0.000814	0.0479			
Gricignano Support Site	Dichlorodifluoromethane (Freon 12)	9	11.11	0.000216	0.000216	0.42	0.000514286	
Gricignano Support Site	Dissolved Oxygen	9	100	6.04	8.85			
Gricignano Support Site	Fecal Streptococcus	9	100		17			
Gricignano Support Site	Fluoride	9	100	1.31	2.29			
Gricignano Support Site	Heterotrophic plate count	9	100	164	7040			
Gricignano Support Site	Iron	9	100	0.00525	0.573			
Gricignano Support Site	Lead	9	100	0.000461	0.019			
Gricignano Support Site	Manganese (nonfood)	9	100	0.000238	0.0291			
Gricignano Support Site	Nickel	9	88.89	0.000612	0.655			
Gricignano Support Site	Nitrate (measured as NO3-)	9	100	68.4	117			
Gricignano Support Site	Nitrite (measured as NO2-)	9	22.22	2.42	6.34			
Gricignano Support Site	Oxidation Reduction Potential	9	100	70	351			
Gricignano Support Site	Ph	9	100	6.84	7.57			
Gricignano Support Site	Salinity	9	100	0.1	0.1			
Gricignano Support Site	Selenium	9	100	0.000665	0.00121			
Gricignano Support Site	Specific Conductance	9	100	1.3	1.81			
Gricignano Support Site	Sulfate	9	100	101	129			
Gricignano Support Site	Temperature	9	100	20.8	33.41			
Gricignano Support Site	Tetrachloroethene	9	55.56	0.000267	0.000597	0.57	0.001047368	
Gricignano Support Site	Tin	9	22.22	0.000145	0.000234			
Gricignano Support Site	Total Coliforms (including fecal coliform and E. C	9	55.56	1	200.5			
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	9	77.78	1.06E-10	5.4115E-09			
Gricignano Support Site	TOTAL HPCDD	9	88.89	1.1E-09	0.00000004			
Gricignano Support Site	TOTAL HPCDF	9	88.89	2.1E-09	0.00000013			
Gricignano Support Site	TOTAL HXCDD	9	11.11	3.6E-09	3.6E-09			
Gricignano Support Site	TOTAL HXCDF	9	22.22	0.000000025	0.000000068			
Gricignano Support Site	TOTAL PECDD	9	22.22	5.2E-10	7E-10			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	1,1,1-Trichloroethane	9	77.78	0.000199	0.00108	0.2	0.0054	
Gricignano Support Site	1,1-Dichloroethene	9	66.67	0.000132	0.00121	0.007	0.172857143	
Gricignano Support Site	Acetone	9	11.11	0.00101	0.00101			
Gricignano Support Site	Aluminum	9	66.67	0.00248	0.4			
Gricignano Support Site	Antimony	9	88.89	0.000152	0.000236	0.006	0.039333333	
Gricignano Support Site	Arsenic	9	100	0.00293	0.00697	0.01	0.697	
Gricignano Support Site	Barium	9	100	0.00863	0.0239	2	0.01195	
Gricignano Support Site	Beryllium	9	88.89	0.0000861	0.000215	0.004	0.05375	
Gricignano Support Site	Bromodichloromethane	9	11.11	0.000187	0.000187			
Gricignano Support Site	Cadmium (Water)	9	44.44	0.0000449	0.000102	0.005	0.0204	
Gricignano Support Site	Chloride	9	100	55.8	94.2			
Gricignano Support Site	Chlorine (as Cl2)	9	100		0.1	4.01	0.024937656	
Gricignano Support Site	Chromium	9	100	0.000425	0.000959	0.1	0.00959	
Gricignano Support Site	Cobalt	9	100	0.000122	0.000311			
Gricignano Support Site	Copper	9	100	0.000814	0.0479			
Gricignano Support Site	Dichlorodifluoromethane (Freon 12)	9	11.11	0.000216	0.000216			
Gricignano Support Site	Dissolved Oxygen	9	100	6.04	8.85			
Gricignano Support Site	Fecal St reptococcus	9	100		17			
Gricignano Support Site	Fluoride	9	100	1.31	2.29	4	0.5725	
Gricignano Support Site	Heterotrophic plate count	9	100	164	7040			
Gricignano Support Site	Iron	9	100	0.00525	0.573			
Gricignano Support Site	Lead	9	100	0.000461	0.019			
Gricignano Support Site	Manganese (nonfood)	9	100	0.000238	0.0291			
Gricignano Support Site	Nickel	9	88.89	0.000612	0.655			
Gricignano Support Site	Nitrate (measured as NO3-)	9	100	68.4	117	44.3	2.641083521	100
Gricignano Support Site	Nitrite (measured as NO2-)	9	22.22	2.42	6.34	3.29	1.927051672	11.11111111
Gricignano Support Site	Oxidation Reduction Potential	9	100	70	351			
Gricignano Support Site	Ph	9	100	6.84	7.57			
Gricignano Support Site	Salinity	9	100	0.1	0.1			
Gricignano Support Site	Selenium	9	100	0.000665	0.00121	0.05	0.0242	
Gricignano Support Site	Specific Conductance	9	100	1.3	1.81			
Gricignano Support Site	Sulfate	9	100	101	129			
Gricignano Support Site	Temperature	9	100	20.8	33.41			
Gricignano Support Site	Tetrachloroethene	9	55.56	0.000267	0.000597	0.005	0.1194	
Gricignano Support Site	Tin	9	22.22	0.000145	0.000234			
Gricignano Support Site	Total Coliforms (including fecal coliform and E. C	9	55.56	1	200.5		1.1	55.55555556
Gricignano Support Site	Total Dioxin/Furans (2,3,7,8-TCDD TEQs)	9	77.78	1.06E-10	5.4115E-09	0.00000003	0.180383333	
Gricignano Support Site	TOTAL HPCDD	9	88.89	1.1E-09	0.00000004			
Gricignano Support Site	TOTAL HPCDF	9	88.89	2.1E-09	0.00000013			
Gricignano Support Site	TOTAL HXCDD	9	11.11	3.6E-09	3.6E-09			
Gricignano Support Site	TOTAL HXCDF	9	22.22	0.000000025	0.000000068			
Gricignano Support Site	TOTAL PECDD	9	22.22	5.2E-10	7E-10			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Cancer RSL		
						Tap Water Ingestion+ Inhalation Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	TOTAL PECDF	9	44.44	6.9E-10	0.000000011			
Gricignano Support Site	TOTAL TCDF	9	22.22	1.4E-09	2.2E-09			
Gricignano Support Site	Total Trihalomethanes	9	11.11	0.000187	0.000187			
Gricignano Support Site	Trichloroethene	9	11.11	0.000142	0.000142	0.0017	0.083529412	
Gricignano Support Site	Uranium	9	100	0.000553	0.0146			
Gricignano Support Site	Vanadium	9	88.89	0.0123	0.0143			
Gricignano Support Site	Zinc	9	66.67	0.0418	4.02			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Ingestion+Inhalation Non-cancer RSL		
						Tap Water Ingestion+ Inhalation Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	TOTAL PECDF	9	44.44	6.9E-10	0.000000011			
Gricignano Support Site	TOTAL TCDF	9	22.22	1.4E-09	2.2E-09			
Gricignano Support Site	Total Trihalomethanes	9	11.11	0.000187	0.000187			
Gricignano Support Site	Trichloroethene	9	11.11	0.000142	0.000142			
Gricignano Support Site	Uranium	9	100	0.000553	0.0146	0.11	0.132727273	
Gricignano Support Site	Vanadium	9	88.89	0.0123	0.0143	0.26	0.055	
Gricignano Support Site	Zinc	9	66.67	0.0418	4.02	11	0.365454545	

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Cancer RSL		
						Tap Water Inhalation-Only Cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	TOTAL PECDF	9	44.44	6.9E-10	0.000000011			
Gricignano Support Site	TOTAL TCDF	9	22.22	1.4E-09	2.2E-09			
Gricignano Support Site	Total Trihalomethanes	9	11.11	0.000187	0.000187			
Gricignano Support Site	Trichloroethene	9	11.11	0.000142	0.000142	0.0024	0.059166667	
Gricignano Support Site	Uranium	9	100	0.000553	0.0146			
Gricignano Support Site	Vanadium	9	88.89	0.0123	0.0143			
Gricignano Support Site	Zinc	9	66.67	0.0418	4.02			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	Tap Water Inhalation-Only Non-cancer RSL		
						Tap Water Inhalation-Only Non-cancer RSL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	TOTAL PECDF	9	44.44	6.9E-10	0.000000011			
Gricignano Support Site	TOTAL TCDF	9	22.22	1.4E-09	2.2E-09			
Gricignano Support Site	Total Trihalomethanes	9	11.11	0.000187	0.000187			
Gricignano Support Site	Trichloroethene	9	11.11	0.000142	0.000142			
Gricignano Support Site	Uranium	9	100	0.000553	0.0146			
Gricignano Support Site	Vanadium	9	88.89	0.0123	0.0143			
Gricignano Support Site	Zinc	9	66.67	0.0418	4.02			

Table D-3
Statistical Summary of Analytical Results, Standards, and Risk Results for Government-Based Properties
Media: Irrigation Well Water (mg/l) -Detects Only

Study Area	Chemical	Number of Samples Analyzed	Frequency of Detection	Minimum Detected Concentration	Maximum Detected Concentration	US MCL		
						US MCL	Ratio of Maximum Detected Concentration to Standard	Frequency of Exceedances of Standard (%)
Gricignano Support Site	TOTAL PECDF	9	44.44	6.9E-10	0.000000011			
Gricignano Support Site	TOTAL TCDF	9	22.22	1.4E-09	2.2E-09			
Gricignano Support Site	Total Trihalomethanes	9	11.11	0.000187	0.000187	0.0807	0.002317224	
Gricignano Support Site	Trichloroethene	9	11.11	0.000142	0.000142	0.005	0.0284	
Gricignano Support Site	Uranium	9	100	0.000553	0.0146	0.03	0.486666667	
Gricignano Support Site	Vanadium	9	88.89	0.0123	0.0143			
Gricignano Support Site	Zinc	9	66.67	0.0418	4.02			