

INDOOR AIR SAMPLING REPORT

McKinley Elementary School 2401 Santa Monica Boulevard Santa Monica, California 90404

Prepared for:

Santa Monica-Malibu Unified School District 2828 4th Street Santa Monica, California 90405

> Project Number: SMSD-23-11646 August 16, 2023

Alta Environmental LP, an NV5 Company 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807 www.NV5.com

PROFESSIONAL CERTIFICATION

We appreciate the opportunity to provide our services to you. If you have any questions, please contact us at (562) 544-3910.

This report has been prepared by:



Eric Fraske, PE Senior Engineer/Project Manager

Trevor L. Atkinson, PE

Vice President - Site Assessment and Remediation

TABLE OF CONTENTS

1.	EXE	UTIVE SUMMARY	1
2.	BACł 2.1 2.2	GROUND	2
3.	INDC 3.1 3.2	OR AIR SAMPLING 4 Pre-Sampling Activities 4 3.1.1 Health and Safety Plan 4 3.1.2 Pre-Sampling Building Screening 4 Sample Collection and Analysis 4 3.2.1 Sample Collection 4 3.2.2 Sample Collection 4	4 5 5 5
4.	INVE 4.1	3.2.2 Sample Analysis 8 STIGATION RESULTS 6 Laboratory Analytical Results 6 4.1.1 VOCs in Air 6 4.1.2 QA/QC 8	6 6 6
5.	INDC 5.1 5.2	OR AIR QUALITY ASSESSMENT	8
6.	CON	CLUSIONS AND RECOMMENDATIONS	9
7.	WAR 7.1 7.2	ANTY	1
8.	REFE 8.1	RENCES	

TABLE OF CONTENTS

Tables

Air Sampling Laboratory Analysis Summary Table 1

Figures

Figure 1 Figure 2 Figure 3 Figure 4 Figure 5 Figure 5A Figure 6 Figure 6A	Site Location Map Site Vicinity Map Air Sample Locations Building A Sample Location Building B Sample Locations Building B Basement Sample Locations Building C Basement Sample Locations Building D Sample Locations
Figure 7	Building D Sample Locations

Appendices

- Appendix A Appendix B
- Building Screening Forms Air Sampling Field Logs and Photographs
- Laboratory Report Appendix C
- Appendix D IAQ Assessment



1. EXECUTIVE SUMMARY

Alta Environmental LP, an NV5 Company (NV5) has prepared this Indoor Air Sampling Report for the McKinley Elementary School, located at 2401 Santa Monica Boulevard in Santa Monica, California (herein identified as the "Site"). The assessment was completed for the Santa Monica-Malibu Unified School District (SMMUSD) in accordance with NV5 proposal number SMSD-23-11646 dated July 7, 2023.

Previous environmental assessments conducted in the parking lot portion of Site, adjacent to Chelsea Avenue, identified the presence of several volatile organic compounds (VOCs) in soil vapor at concentrations that exceeded California published health-risk screening levels¹. The VOCs identified above risk screening levels included solvents (tetrachloroethylene [PCE] and trichloroethylene [TCE]) and petroleum related constituents (benzene, ethylbenzene, and naphthalene),

As a proactive measure, air quality sampling was conducted throughout the entire Site to assess the indoor air quality of the existing campus structures with respect to potential vapor intrusion from VOC impacted soil vapor.

During this assessment, concentrations of multiple VOCs were detected in air samples collected at both interior and exterior locations throughout the campus. However, only concentrations of chloroform (six interior air samples), benzene (all interior and exterior air samples), 1,2-dichloroethane (one interior air sample), 1,2-dibromoethane (three interior air samples), ethylbenzene (one interior air sample), and naphthalene (all interior and exterior air samples) exceeded respective regulatory screening levels.

Concentrations of chloroform, benzene, 1,2-dichloroethane, ethylbenzene, and naphthalene were detected in all indoor and all outdoor air samples. Therefore, it is likely that the concentrations detected in interior air samples can be primarily attributed to regional air quality issues rather than vapor intrusion from the soil vapor beneath the Site. Concentrations of PCE and TCE were also detected in all indoor and outdoor air samples; however, none of the detected concentrations exceeded their respective health risk screening levels.

Statistical analysis of the air sampling data indicated there is no significant difference between the indoor and outdoor air quality. These results indicate that vapor intrusion is either not occurring at the Site or, if occurring, it is occurring at a very slow rate and at a rate that does not negatively affect the indoor air quality.

Based on the results of the air sampling, it was concluded that there is no significant difference between the indoor air quality and outdoor air quality at the Site, and that indoor air quality at the Site is acceptable for continued operation as a school. Nevertheless, in the preschool building, nearest to the off-site dry cleaner facility, in abundance of caution, adjustments have been made to the ventilation system to reduce the potential for vapor intrusion exposure.

Additionally, The Santa Monica Malibu Unified School District has engaged with the Santa Monica Fire Department (SMFD) and the California Department of Toxic Substance Controls (DTSC) to review the sampling reports, pursue the source of the VOC impacts, and to provide guidance moving forward.

¹ Screening levels provide conservative standards against which chemicals detected in soil vapor and indoor air can be compared to determine preliminary exposure risk and the need for closer evaluation.



2. BACKGROUND

2.1 Site Location and Description

McKinley Elementary School is an approximately 6.50-acre rectangular shaped elementary school property located at 2401 Santa Monica Boulevard in the City of Santa Monica (Figure 1), with approximately 450 students, serving transitional kindergarten through fifth grades. The current campus has four educational buildings and 11 portable buildings, as well as play yards and sports fields, parking lots, programmed and unprogrammed open space. Vehicular access is from Chelsea Avenue, with student drop-off/pick-up occurring on-site. The school campus is bounded by Santa Monica Boulevard and commercial uses to the southeast, Arizona Avenue and multi-family residential uses to the northwest, and mixed multi-family and commercial uses to the northeast across Chelsea Avenue and to the southwest across 23rd Court (Figure 2). A dry cleaner facility is located off-site across Chelsea Avenue adjacent to the eastern corner of the campus.

2.2 Previous Investigations

Previous environmental investigations conducted at the Site are listed below.

Phase I Environmental Site Assessment Report – McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, California. Prepared for the Santa Monica-Malibu Unified School District. Prepared by NV5. April 19, 2022.

For this assessment, the boundaries of the Site were defined as a portion of the paved parking lot and playground area along Chelsea Avenue. According to historical resources reviewed during the Phase I, the larger school campus in which the Site is located was first developed for use as a school around 1925. Multiple other classroom structures were subsequently constructed throughout the campus, but the Site has historically only been developed with playground areas and paved parking lots.

This assessment identified the following evidence of recognized environmental conditions (RECs) in connection with the Site.

- Regulatory database records and historical records indicate that a drycleaner has operated at the northeast adjoining property located at 2441 Santa Monica Boulevard from at least 1991 to present day. Records indicate that dry-cleaning equipment that utilized perchloroethylene (PCE, a chlorinated solvent) was used at this facility. While evidence of violations, leaks, spills, or releases were not identified, based on the proximity of this facility to the Site and the inherent environmental risk associated with dry-cleaning facilities, these listings are considered to represent a REC.
- Based on the age of historical and current structures on the Site, arsenic, lead-based paint, asbestos, pesticides, and polychlorinated biphenyls (PCBs) in caulking may have been historically used at the Site. As a result, there is a potential for these compounds to be present in the shallow soils onsite.

NV5 recommended conducting a limited Phase II ESA to determine if dry-cleaning operations on the northeastern adjoining property had negatively impacted the Site. Additionally, NV5 recommended a limited Phase II subsurface investigation be conducted in areas of proposed soil disturbance to evaluate shallow soil conditions with respect to lead, arsenic, PCBs, and pesticides.



Environmental Site Investigation Report – McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, California. Prepared for the Santa Monica-Malibu Unified School District. Prepared by NV5. April 27, 2023.

This assessment included the collection and analysis of soil samples from twelve locations for lead, arsenic, PCBs, and pesticides and the collection of soil vapor samples from three soil vapor probe locations on the eastern portion of the Site (which for this assessment was defined as a portion of the paved parking lot and playground area along Chelsea Avenue).

The results of the laboratory analysis identified trace concentrations of PCBs and pesticides in samples collected at two locations; however, all detected concentrations were well below applicable health risk screening levels. Lead was detected in all collected soil samples; however, none of the detected concentrations exceeded the residential risk screening level for lead in soil. Arsenic was detected at four locations at concentrations that exceeded the State of California Department of Toxic Substances Control (DTSC) upper-bound arsenic screening level for Southern California soils of 12 milligrams per kilogram (mg/kg). Based on these findings, NV5 recommended that additional step-out sampling be conducted to determine the extent of arsenic impacted soils above health risk screening levels and that once delineated, the impacted soil should be excavated and removed from the Site for disposal. NV5 conducted additional step-out soil sampling on July 25 and 26, 2023 to delineate the extent of arsenic impacted soils at the Site. A report detailing the additional step-out investigation findings will be submitted under separate cover once all laboratory data is received.

Concentrations of multiple VOCs in excess of risk screening levels were identified in soil vapor samples collected from both the 5-foot and 15-foot depth probes at all three soil vapor sample locations (SV1 through SV3). Concentrations of PCE tended to increase with depth and proximity to the existing adjoining upgradient dry-cleaner property. Conversely, concentrations of petroleum hydrocarbon (benzene, toluene, ethylbenzene, etc.) related constituents decreased with depth and proximity to the adjoining dry-cleaner.

Historical resources indicated that the original structures at the campus were constructed in the 1920's on vacant land that was reported to have been used for the cultivation of beans. No historical or current uses of chlorinated solvents or petroleum products at the McKinley school campus were identified during the Phase I ESA, thereby indicating the source of the VOC impacts to be from an unknown off-site source. As the off-site source(s) and extent of soil vapor impacts are currently unknown, NV5 recommended that additional soil vapor assessment be conducted at the Site to further evaluate the potential risk of vapor intrusion to proposed structures and to assess if mitigation measures would be warranted.

Soil Vapor Investigation Report – McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, California. Prepared for the Santa Monica-Malibu Unified School District. Prepared by NV5. July 19, 2023.

This assessment was conducted in the parking lot portion of the campus along Chelsea Avenue. During the assessment, soil and soil vapor samples were collected from ten locations throughout the parking lot and analyzed for VOCs to further assess the VOC impacted soil vapor identified during the April 2023 investigation.



Laboratory analysis of the collected soil samples identified low concentrations of several VOCs (2-Butanone, acetone, benzene, tert-Butyl Alcohol [TBA], and PCE). However, all detected concentrations of VOCs in soil were below the established health screening levels.

Concentrations of multiple VOCs were detected in soil vapor samples collected throughout the Site. However, only the concentrations of benzene, ethylbenzene, naphthalene, and PCE at 5 feet bgs and PCE, TCE, and naphthalene at 15 feet bgs exceeded the applicable compound specific health screening levels.

A Vapor Intrusion Risk Evaluation (VIRE) using the collected soil vapor data was conducted by a boardcertified Toxicologist. The results of the VIRE indicated that the calculated potential non-carcinogenic and carcinogenic health risks associated with the reported VOC concentrations in soil vapor beneath the investigation area exceeded acceptable regulatory limits. Design and installation of a vapor intrusion mitigation system (VIMS) along with adequate ventilation was recommended for future structures built at the Site to mitigate the findings of the VIRE.

The results of the laboratory analysis of the soil and soil vapor samples collected during this assessment did not indicate evidence of an on-site release of VOCs. Concentrations of VOCs in soil vapor, specifically PCE, tend to generally decrease from east to west across the Site and appear to originate from an off-site unknown source. No evidence for the past use of chlorinated solvents (PCE and TCE) or petroleum hydrocarbons (benzene, ethylbenzene, and naphthalene) at the school was identified during the previous Phase I ESA (NV5, 2022). However, the Phase I did identify the presence of nearby off-site dry cleaning and automotive repair businesses along Santa Monica Boulevard.

The results of this and prior assessments were subsequently communicated to the Santa Monica Fire Department and the Department of Toxic Substances Control (DTSC) in order to initiate an off-site investigation to determine the source of the VOC impacts.

As the off-site source and extent of the impacted soil vapor is unknown, a preliminary indoor air quality evaluation was recommended along with further assessment of the entire McKinley campus to determine the magnitude and extent of VOC impacts. The results of the preliminary air quality evaluation are presented in the following sections of this report.

3. INDOOR AIR SAMPLING

Sampling was completed in accordance with the DTSC's Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (2011) and Final Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion (2023).

3.1 Pre-Sampling Activities

3.1.1 Health and Safety Plan

Prior to conducting field work for the project, NV5 prepared a site-specific Health and Safety Plan (HASP) that was implemented per California Occupational Safety and Health Administration (OSHA) California Code of Regulations (CCR) Title 8, Section 5192 requirements. The HASP presented an overview of the scope of work and discussions of potential job hazards that could be encountered during the investigation. All field personnel were required to review and sign the HASP before beginning any fieldwork.



Daily tailgate meetings were held with NV5 personnel and subcontractors at the beginning of each day during the investigation. The plan of the day, potential safety hazards, and site-specific safety procedures were discussed during the tailgate meetings.

All NV5 personnel conducting field work onsite have received the OSHA Hazardous Waste Operations training in accordance with 29 CFR 1910.120 and CCR Title 8, Section 5192. The investigation work was completed with no reportable injuries or illnesses.

3.1.2 Pre-Sampling Building Screening

On July 6, 2023 the Site structures were screened for potential VOC sources utilizing an organic vapor photoionization detector (PID). A DTSC Building Survey Form was completed for each of the Site buildings (Appendix A). Potential VOC sources near air sampling locations were documented (i.e., upwind chemical uses on-site or from neighboring facilities, such as fuel tanks, combustion sources, chemical storage areas, etc.).

Since materials (cleaning products, paints, glues, hand sanitizers, etc.) stored at the Site that contain VOCs can bias the results of the sampling, NV5 requested that any VOC containing materials (where identified) be removed from the buildings. District staff removed the identified materials from rooms where samples would be collected at least 72 hours prior to commencement of the indoor air sampling to limit potential bias.

Additionally, to ensure collection of representative sampling data during this assessment, building HVAC Systems were kept on and operational at settings that would be typically used during building occupancy. Doors and windows were also kept closed and remained closed during sampling.

3.2 Sample Collection and Analysis

Indoor and outdoor (ambient) air samples were conducted at the Site on July 13, 2023. Air sampling activities were performed by properly trained NV5 staff under the supervision of Eric Fraske, a State of California registered Professional Engineer (PE). Sampling was conducted between the hours of 7 AM and 3PM to be representative of conditions during normal daily occupancy.

3.2.1 Sample Collection

The indoor and outdoor air sampling included the collection of 20 primary indoor air samples and four exterior air samples. The locations of each sample are depicted in Figures 3 through 7. All interior air samples were collected approximately three to five feet off the ground and the outdoor samples were collected approximately six feet off the ground at each location. Additionally, one duplicate interior air sample was collected for quality assurance and quality control (QA/QC) purposes.

All samples were collected in six-liter Summa canisters equipped with a dedicated vacuum gauge and an 8-hour flow regulator. All Summa canisters, flow regulators, and pressure gauges were batch certified as clean to the laboratory's method reporting limit prior to use. Field sampling logs and photographs are presented in Appendix B.

3.2.2 Sample Analysis

Following completion of sampling, the canisters were closed and transported under chain-of-custody protocols to Air Technology Laboratories, Inc. (a State of California Certified Environmental Laboratory) in City of Industry, California for analysis.



All samples were analyzed for VOCs by United States Environmental Protection Agency (EPA) Method TO-15 SIM. Laboratory analytical reports and chain-of-custody documentation for the air samples are presented in Appendix C.

4. INVESTIGATION RESULTS

4.1 Laboratory Analytical Results

A tabulated summary of the VOCs detected in the air samples is presented on Table 1.

Laboratory results where analyte concentrations were not detected above the laboratory method detection limit (MDL) are identified as "ND" along with the corresponding MDL. Analytical concentrations detected above the MDL, but below the laboratory reporting limit (RL) are considered estimated values and are reported with a "J-flag" identifier (J).

The analytical results were compared to appropriate regulatory agency published screening levels developed for residential land use scenarios. Concentrations of VOCs in air were compared to the EPA Region 9 Regional Screening Levels (RSLs) for residential land use (EPA, November 2022) and to the DTSC Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC-SLs) for residential land use (DTSC, May 2022), where applicable.

4.1.1 VOCs in Air

- Concentrations of multiple VOCs were identified in indoor and outdoor air samples. The detected VOCs included:
 - Dichlorodifluoromethane (12): 1.6 to 2.1 micrograms per cubic meter (μ g/m³)
 - Chloromethane: 0.89 to 1.3 μg/m³
 - Vinyl Chloride: 0.0072J to 0.0075J μ g/m³
 - Chloroethane: 0.035 to 0.13 μg/m³
 - Trichlorofluoromethane (11): 0.78 to 1.1 μ g/m³
 - 1,1,2-Cl 1,2,2-F ethane (113): 0.36 to 0.45 μg/m³
 - \circ 1,1-Dichloroethene: 0.0025J to 0.0046J µg/m³
 - Methylene Chloride: 0.028 to 0.042 μ g/m³
 - $\circ~$ t-1,2-Dichloroethene: 0.0029J $\mu g/m^3$ to 0.0081J $\mu g/m^3$
 - \circ c-1,2-Dichloroethene: 0.0039J μ g/m³
 - Chloroform: 0.095 to 0.21 μg/m³
 - \circ 1,1,1-Trichloroethane: 0.0065J to 0.48 $\mu\text{g}/\text{m}^3$
 - \circ Carbon Tetrachloride: 0.44 to 0.47 $\mu g/m^3$
 - \circ Benzene: 0.23 to 1.2 $\mu g/m^3$
 - \circ 1,2-Dichloroethane: 0.044 to 0.29 $\mu g/m^3$
 - \circ ~ Trichloroethene (TCE): 0.023J to 0.17 $\mu g/m^3$



- 1,2-Dichloropropane: 0.01J to 0.062 μ g/m³
- $\circ~$ Bromodichloromethane: 0.0073J to 0.1 $\mu g/m^3$
- \circ Toluene: 0.28 to 3 $\mu g/m^3$
- $\circ~$ t-1,3-Dichloropropene: 0.0059J to 0.077 $\mu\text{g}/\text{m}^3$
- \circ Tetrachloroethene (PCE): 0.016J to 0.15 $\mu\text{g}/\text{m}^3$
- \circ 1,2-Dibromoethane: 0.0020J to 0.016J $\mu\text{g}/\text{m}^3$
- $\circ \quad \text{Ethylbenzene: } 0.12 \text{ to } 2.0 \ \mu\text{g/m}^3$
- $\circ~$ p,&m-Xylene: 0.39 to 7.7 $\mu g/m^3$
- $\circ~$ o-Xylene: 0.016 to 1.9 $\mu g/m^3$
- \circ Styrene: 0.041J to 0.48 $\mu\text{g/m}^3$
- \circ Naphthalene: 0.09 to 1.1 $\mu g/m^3$
- Only concentrations of chloroform (six interior air samples), benzene (all interior and exterior air samples), 1,2-dichloroethane (one interior air sample), 1,2-dibromoethane (three interior air samples), ethylbenzene (one interior air sample), and naphthalene (all interior and exterior air samples) exceeded respective regulatory screening levels.
- Chloroform was detected in all outdoor air samples (0.1 to 0.11 µg/m³) and all indoor air samples (0.095 to 0.21 µg/m³). Detected concentrations of chloroform (0.14 to 0.21 µg/m³) above the RSL (0.12 µg/m³) were identified at six interior locations. The highest concentration was detected in sample IA17, collected in the Building C STEM Lab. There is no DTSC-SL established for chloroform.
- Benzene was detected in all outdoor air samples (0.26 to 0.34 μg/m³) and all indoor air samples (0.23 to 1.2 μg/m³). All concentrations of benzene exceeded its DTSC-SL (0.097 μg/m³). Only the concentrations of benzene (0.56 and 1.2 μg/m³) detected in sample IA6 (Portable Classroom Building B2) and IA14 (Building C room 102) exceeded the RSL (0.36 μg/m³).
- 1,2-dichloroethane was detected in all outdoor air samples (0.049 to 0.051 µg/m³) and all indoor air samples (0.044 to 0.29 µg/m³). Only the concentration of 1,2-dichloroethane (0.29 µg/m³) detected in sample IA6 (Portable Classroom Building B2) exceeded the RSL (0.11 µg/m³). There is no DTSC-SL established for 1,2-dichloroethane.
- 1,2-dibromoethane was not detected in any outdoor air sample and was detected in 8 of the 21 indoor air samples (0.0020J to 0.016J µg/m³). Only the concentrations of 1,2-dichloroethane (0.0048J, 0.016J, and 0.0050J µg/m³) detected in samples IA4 (Modular Building Room B10), IA6 (Portable Classroom Building B2), and IA10 (collected in the Building C Room 107) exceeded the RSL and DTSC-SL (0.0047 µg/m³).
- Ethylbenzene was detected in all outdoor air samples (0.12 to 0.19 μg/m³) and all indoor air samples (0.12 to 2.0 μg/m³). Only the concentration of ethylbenzene (2.0 μg/m³) detected in sample IA17 (Building C STEM Lab) exceeded the RSL (1.1 μg/m³). There is no DTSC-SL established for ethylbenzene.



Naphthalene was detected in all outdoor air samples (0.09 to 1.1 μg/m³) and all indoor air samples (0.12 to 0.53 μg/m³). All concentrations of naphthalene exceeded its RSL (0.083 μg/m³). There is no DTSC-SL established for naphthalene.

The previous soil vapor investigation identified five VOCs that were detected above regulatory risk screening levels. These five compounds (PCE, TCE, ethylbenzene, benzene, and naphthalene) were considered "risk drivers" and were used as indicator chemicals to assess the potential vapor intrusion into onsite buildings. While concentrations of ethylene, benzene, and naphthalene were detected above indoor air risk screening levels, no concentrations of PCE or TCE were detected in any of the indoor or outdoor samples at concentrations that exceeded their respective RSL or DSTC-SL.

- PCE was detected in all outdoor air samples (0.016J to 0.019J μg/m³) and all indoor air samples (0.017J to 0.15 μg/m³). The highest concentration (0.15 μg/m³) was detected in samples IA3 and IA3 DUP(collected in Building D Room 71). The RSL for PCE is 11 μg/m³ and the DTSC-SL is 0.46 μg/m³.
- TCE was detected in all outdoor air samples (0.07 to 0.098 μg/m³) and all indoor air samples (0.023J to 0.17 μg/m³). The highest concentration (0.17 μg/m³) was detected in IA11 (collected in Building B Room 207). The RSL for TCE is 0.48 μg/m³. There is no DTSC-SL for TCE; however, the DTSC has established an Accelerated Response Action Level for TCE in residential air of 2.0 μg/m³.

4.1.2 QA/QC

- The samples were received by the laboratory in good condition and properly preserved. Laboratory analysis was conducted within the applicable laboratory method holding times.
- The concentrations of VOCs in the duplicate air sample (IA3 DUP) were similar to concentrations of VOCs detected in the corresponding primary sample (IA3).

5. INDOOR AIR QUALITY ASSESSMENT

NV5 engaged a board-certified toxicologist (Enviro-Tox) to conduct an Indoor Air Quality Assessment (IAQA) to assess if the VOCs detected in indoor air could be the result of vapor intrusion or if the VOCs can be attributed to other "background" sources (on-site chemical use or exterior regional air quality issues).

5.1 IAQA Methodology

The primary objective of the IAQA was to determine whether subsurface VOCs were entering the indoor environment. According to the new Cal-EPA (2023) vapor intrusion guidance, indoor air sampling results should be interpreted considering Multiple Lines of Evidence (MLE). At a minimum, the vapor intrusion investigation should consider the following four MLE related to soil vapor and indoor air analytical results:

- 1. Selection of Chemicals of Potential Concern
- 2. Comparison of Constituent Ratios
- 3. Attenuation Factor Comparison
- 4. Comparison of Indoor and Outdoor Air Quality Results

The process followed by Enviro-Tox is presented in the IAQA (Appendix D).



5.2 IAQA Results

All chemicals detected in soil vapor, indoor air and outdoor air are known to be widely used as fuel components and solvents in many consumer and domestic products. Thus, it is possible that these chemicals were released to indoor air from the use of consumer products, fuels, lubricants, sealers, solvents and cleaning articles, and/or construction materials.

The objective of the indoor air sampling was to determine if vapor intrusion is occurring at the school site. According to Cal-EPA (2023) guidance, if vapor intrusion is occurring, (1) soil vapor and indoor air data would have similar characteristics indicating a link between soil vapor and indoor air; (2) soil vapor VOC chemical composition, make up and distribution would be similar to the composition, make up and distribution would be similar to the composition, make up and distribution of VOCs detected in indoor air; and (3) subsurface-derived VOCs would be found in indoor air at concentrations higher than outdoor air concentrations.

As further detailed in the IAQA, comparison of soil vapor data (IAQA Table 1) to indoor air data (IAQA Table 2) shows that the make up, composition and distribution of VOCs in soil gas is different from that of indoor air, indicating that at the time of the sampling, there was no link between VOCs in soil vapor and those found in indoor air.

In an effort to determine if there is a significant difference in the indoor and outdoor VOC concentrations, Enviro-Tox conducted a statistical comparison of indoor and outdoor VOC concentrations. According to the statistical analyses, there is no significant difference between the indoor and outdoor air quality data for the five "risk drivers." These results indicate that vapor intrusion is either not occurring at the Site or, if occurring, it is occurring at a very slow rate and at a rate that does not negatively affect the indoor air quality.

Enviro-Tox stated that based on their evaluation it can be concluded that VOCs detected in indoor air at the school site likely originated from "background" sources such as consumer products, construction materials and outdoor air. It can also be concluded that, while some VOCs detected in soil gas may also contribute to VOCs detected in indoor air, the contribution from soil gas is likely minimal and insignificant when compared to the contribution made by "background" sources.

6. CONCLUSIONS AND RECOMMENDATIONS

This investigation was conducted for the purpose of assessing the indoor air quality at the McKinley Elementary School with respect to VOCs previously identified in soil vapor at the campus. The following are NV5's conclusions for this investigation based on the reported laboratory results and the IAQA findings.

 Concentrations of multiple VOCs were detected in air samples collected at both interior and exterior locations throughout the campus. However, only concentrations of chloroform (six interior air samples), benzene (all interior and exterior air samples), 1,2-dichloroethane (one interior air sample), 1,2-dibromoethane (three interior air samples), ethylbenzene (one interior air sample), and naphthalene (all interior and exterior air samples) exceeded respective regulatory screening levels. While concentrations of PCE and TCE were detected in all indoor and outdoor air samples, none of the detected concentrations exceeded their respective health risk screening levels.



- Concentrations of chloroform, benzene, 1,2-dichloroethane, ethylbenzene, and naphthalene were detected in all indoor and all outdoor air samples. Therefore, it is likely that the concentrations detected in interior air samples can be primarily attributed to regional air quality issues.
- 1,2-dibromoethane was not detected in any exterior air samples and in only 8 of the 21 collected indoor air samples. Furthermore, 1,2-dibromoethane was not detected in any of the soil vapor samples collected at the Site during the 2023 Soil Vapor Investigation (NV5, 2023). 1,2-dibromoethane has historically been used as a pesticide and fumigant. Based on the lack of detection of this compound in exterior air and soil vapor samples, and its limited detection throughout the campus, it appears likely that the presence of this compound in indoor air may be the result of off-gassing from a consumer product versus subsurface vapor intrusion.
- The results of the IAQA indicated that according to the statistical analyses, there is no significant difference between the indoor and outdoor air quality data. These results indicate that vapor intrusion is either not occurring at the Site or, if occurring, it is occurring at a very slow rate and at a rate that does not negatively affect the indoor air quality. Based on the IAQA findings, it can be concluded that VOCs detected in indoor air at the Site likely originated from "background" sources such as consumer products, construction materials and outdoor air. It can also be concluded that, while some VOCs detected in soil vapor may also contribute to VOCs detected in indoor air, the contribution from soil vapor is likely minimal and insignificant when compared to the contribution made by "background" sources.

It should be noted that air sampling data is temporal in nature and will fluctuate based on such factors as ventilation, temperature, barometric pressure, and other external factors. Therefore, the results presented in this assessment are representative only of conditions on the day of sampling. It is recommended that the indoor air sampling be repeated on a regular basis until the soil vapor impact beneath the Site has been defined and remediated by the responsible party to concentrations below established regulatory screening limits. To account for seasonal fluctuations, the next sampling event should be conducted in the late fall or winter. NV5 and the District are currently working with the DTSC to conduct further assessment of the entire school property.

While the potential impact of subsurface vapors to the indoor air at the Site was considered negligible, the potential for vapor intrusion remains until impacted soil vapors beneath the Site are successfully remediated by the responsible party. It was noted that concentrations of PCE detected in indoor air samples from Building D, which is located closest to the adjoining dry-cleaner and the previously detected soil vapor impact, were approximately one order of magnitude greater than concentrations detected in indoor air samples collected throughout the rest of the campus. While the detected concentrations of PCE were all below residential indoor air screening levels, the elevated concentrations may represent evidence of a complete vapor intrusion pathway. As a proactive mitigation measure, it is recommended that the HVAC systems in all buildings at the Site be evaluated and operated/modified to ensure that buildings are maintained under positive air pressure. Other mitigation efforts will be recommended and implemented as necessary as a preventative measure to reduce the potential for vapor intrusion into the school buildings.



7. WARRANTY

7.1 Warranty

NV5 warrants that the findings and conclusions reported herein were conducted in general accordance with standard industry practices. The conclusions presented in the report are based solely on the services described herein and not on scientific tasks or procedures beyond the scope of agreed upon services.

This investigation report has been developed to provide the client with information regarding apparent indications of recognized environmental conditions relating to the Site. It is necessarily limited to the conditions observed and to the information available at the time of the work. The assessment and conclusions presented herein were based upon the subjective evaluation of limited data and may not represent all conditions at the subject site as they reflect the information gathered from specific locations. NV5 warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental investigation methodology and only for the site described in this report. The findings set forth in this report are strictly limited to the date of the evaluation.

The scope of the soil vapor investigation was developed specifically to meet the client's stated objectives and the data that was developed may not be suitable for use to satisfy other objectives. Any limitations on the data to meet the client's stated objectives are described in the report.

Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment, or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. The description, type, and composition of what are commonly referred to as "hazardous materials or conditions" can also change over time. NV5 does not accept responsibility for changes in the state of the art, nor for changes in the scope of various lists of hazardous materials or conditions. NV5 believes that the findings and conclusions provided in this report are reasonable. However, no other warranties are implied or expressed.

Analytical results contained in this report are limited to the corresponding sampling location, depth, sampled material, selected range of analyses and laboratory reporting limits. Additional chemical constituents not searched for during the current study may be present in soil, soil vapor and/or groundwater at the site.

The location and concentration of contaminants can vary over time due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.

7.2 Use by Third Parties

This report was prepared pursuant to the contract NV5 has with the Santa Monica-Malibu Unified School District. That contractual relationship included an exchange of information about the subject site that was unique and between NV5 and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between NV5 and its client, reliance, or any use of this report by anyone other than the Santa Monica-Malibu Unified School District, for whom it was prepared, is prohibited and therefore not foreseeable to NV5.

Reliance on or use of the information contained herein by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to NV5's contract with the Santa



Monica-Malibu Unified School District. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties, or representations, expressed or implied in this report, are made to any such third party.

8. REFERENCES

8.1 References

Phase I Environmental Site Assessment Report – McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, California. Prepared for the Santa Monica-Malibu Unified School District. Prepared by NV5. April 19, 2022.

Environmental Site Investigation Report – McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, California. Prepared for the Santa Monica-Malibu Unified School District. Prepared by NV5. April 27, 2023.

Soil Vapor Investigation Report – McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, California. Prepared for the Santa Monica-Malibu Unified School District. Prepared by NV5. July 19, 2023.

Department of Toxic Substance Control California Environmental Protection Agency – Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance). October 2011.

Department of Toxic Substance Control Human and Ecological Risk Office - Human Health Risk Assessment Note Number 5, Health-based Indoor Air Screening Criteria for Trichloroethylene (TCE). August 2014.

Department of Toxic Substance Control Human and Ecological Risk Office - Human Health Risk Assessment Note Number 3, DTSC-modified Screening Levels. Revised May 2022.

Department of Toxic Substances Control and California State Water Resources Control Board -Supplemental Guidance: Screening and Evaluating Vapor Intrusion – Final Draft. February 2023.

United States Environmental Protection Agency Region IX Regional Screening Level (RSLs) Summary Table. November 2022.

TABLES

Table 1: Air Sampling Laboratory Analysis Summary McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California

			Sam	nple ID	OA1	OA2	OA3	OA4	IA1	IA2	IA3	IA3 DUP	IA4	IA5	IA6	IA7	IA8	IA9	IA10	IA11	IA12	IA13	IA14	IA15	IA16	IA17	IA18	IA19	IA20
			Jan		UAI	UAZ	UAS	UA4	IAI	IAZ	IAJ	IAS DOP	144	IAS	IAU	147	140	IAJ	IAIU	IAII	IAIZ	IAIS	1414	IAIS	IAIO	1417	IA10	IAIJ	IAZU
Analyte	CAS Number	Sample Date		e Location hing Level DTSC-SL	Chelsea Parking Lot	Main Playground	South- Western Lawn	South- Eastern Playground	Building D Room 71D	Building D Room 70	Building D Room 71	Building D Room 71	Modular Building Room B10	Portable Classroom Building B7	Portable Classroom Building B2	Building A Cafeteria	Building B Basement	Building B Room 109	Building B Room 107	Building B Room 207	Building C Admin Office	Building C Library	Building C Room 102	Building C Room 105	Building C Auditorium	Building C STEM Lab	Building C Basement	Building C Room 202	Building C Boys Bathroom
Dichlorodifluoromethane (12)	75-71-8	7/13/2023	100	NE	2	1.6	2.1	2	2.1	2.1	2.1	2.1	2	1.9	1.9	2	2	2	2	2	2	1.9	2	2	2	2	2	2	2
Chloromethane	74-87-3	7/13/2023	94	NE	1	0.89	1.1	1.1	1.1	1.3	1.2	1.1	1.2	1.1	1.1	1.1	1	1.2	1.1	1.1	1.1	1	1	1.1	1.1	1.1	1	1.2	1.1
Vinyl Chloride	75-01-4	7/13/2023	0.17	0.0095	ND (<0.0060)) ND (<0.0060)	ND (<0.0060)	0.0072J	0.0075J	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)) ND (<0.0060
Chloroethane	75-00-3	7/13/2023	4200	NE	0.035	0.052	0.085	0.088	0.11	0.13	0.11	0.099	0.05	0.048	0.088	0.065	0.041	0.052	0.042	0.043	0.1	0.067	0.052	0.074	0.063	0.068	0.059	0.078	ND (<0.0080
Trichlorofluoromethane (11)	75-69-4	7/13/2023	NL	1300	1	0.78	1.1	1	1	1.1	1.1	1	0.99	0.96	0.96	0.98	1	0.98	1	0.99	0.99	0.97	0.99	1	1	1	1	0.98	1
1,1,2-Cl 1,2,2-F ethane (113)	76-13-1	7/13/2023	5200	NE	0.44	0.36	0.45	0.43	0.43	0.45	0.45	0.44	0.44	0.43	0.43	0.43	0.44	0.44	0.45	0.44	0.44	0.43	0.43	0.44	0.44	0.44	0.44	0.43	0.44
1,1-Dichloroethene	75-35-4	7/13/2023	210	73	0.0030J	ND (<0.0025)	ND (<0.0025)	0.0031J	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	0.0025J	0.0029J	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	0.0046J	0.0032J	0.0029J	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	5) ND (<0.0025
Methylene Chloride	75-09-2	7/13/2023	100	1	0.29	0.31	0.32	0.3	0.32	0.31	0.31	0.31	0.42	0.3	0.29	0.29	0.28	0.34	0.36	0.35	0.32	0.28	0.33	0.31	0.28	0.3	0.29	0.31	0.28
t-1,2-Dichloroethene	156-60-5	7/13/2023	42	83	0.0039J	ND (<0.0029)	0.0040J	0.0038J	0.0038J	ND (<0.0029)	0.0041J	ND (<0.0029)	0.0039J	0.0029J	0.0081J	ND (<0.0029)	0.0037J	ND (<0.0029)	0.0045J	0.0031J	ND (<0.0029)	0.0036J	0.0056J	0.0041J	0.0047J	ND (<0.0029)	ND (<0.0029)	0.0029J	ND (<0.0029
1,1-Dichloroethane	75-34-3	7/13/2023	1.8	1.8	ND (<0.0076) ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	5) ND (<0.0076
c-1,2-Dichloroethene	156-59-2	7/13/2023	42	8.3	ND (<0.0033)) ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	0.0039J	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	B) ND (<0.0033
Chloroform	67-66-3	7/13/2023	0.12	NE	0.11	0.1	0.11	0.1	0.12	0.1	0.11	0.12	0.1	0.18	0.12	0.11	0.11	0.18	0.17	0.11	0.12	0.11	0.15	0.14	0.1	0.21	0.12	0.11	0.095
1,1,1-Trichloroethane	71-55-6	7/13/2023	5200	1000	0.0065J	0.0074J	0.0076J	0.0088J	0.0085J	0.0089J	0.0079J	0.0072J	0.0069J	0.0070J	0.0093J	0.0074J	0.0085J	0.076	0.48	0.21	0.025J	0.0075J	0.064	0.067	0.022J	0.015J	0.0075J	0.057	0.0066J
Carbon Tetrachloride	56-23-5	7/13/2023	0.47	0.47	0.45	0.44	0.46	0.45	0.45	0.47	0.46	0.46	0.45	0.44	0.44	0.44	0.46	0.45	0.45	0.45	0.45	0.44	0.44	0.45	0.45	0.44	0.45	0.45	0.45
Benzene	71-43-2	7/13/2023	0.36	0.097	0.26	0.32	0.34	0.33	0.29	0.3	0.32	0.31	0.23	0.28	0.56	0.29	0.27	0.27	0.29	0.32	0.29	0.3	1.2	0.33	0.29	0.29	0.28	0.31	0.26
1,2-Dichloroethane	107-06-2	7/13/2023	0.11	NE	0.05	0.049	0.049	0.051	0.097	0.067	0.073	0.073	0.048	0.055	0.29	0.049	0.076	0.066	0.054	0.05	0.078	0.047	0.067	0.064	0.046	0.063	0.065	0.055	0.044
Trichloroethene	79-01-6	7/13/2023	0.48	2*	0.07	0.091	0.098	0.079	0.067	0.066	0.09	0.087	0.03	0.085	0.041	0.084	0.075	0.023J	0.043	0.17	0.078	0.059	0.071	0.09	0.069	0.059	0.048	0.095	0.047
1,2-Dichloropropane	78-87-5	7/13/2023	0.76	NE	0.016J	0.010J	0.013J	0.011J	0.021J	0.011J	0.013J	0.017J	0.014J	0.014J	0.062	0.011J	0.014J	0.020J	0.019J	0.014J	0.016J	ND (<0.0098)	0.018J	0.038J	0.015J	0.021J	0.013J	0.012J	ND (<0.0098
Bromodichloromethane	75-27-4	7/13/2023	0.076	0.076	ND (<0.0071) ND (<0.0071)	ND (<0.0071)	ND (<0.0071)	0.012J	0.011J	ND (<0.0071)	0.0093J	0.0094J	0.1	0.013J	0.014J	0.0073J	0.0080J	ND (<0.0071)	0.0081J	ND (<0.0071)	0.0094J	0.015J	ND (<0.0071)	0.011J	ND (<0.0071)	0.011J	0.023J	0.0099J
Toluene	108-88-3	7/13/2023	5200	310	0.52	0.28	0.68	0.66	1	0.99	1	0.99	0.69	0.74	1.6	0.59	0.6	2.1	1.8	0.94	0.86	0.7	3	0.91	0.6	0.87	1.5	0.79	0.5
t-1,3-Dichloropropene	10061-02-6	7/13/2023	0.7	NE	ND (<0.0059)) ND (<0.0059)	ND (<0.0059)	0.0077J	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	0.019J	0.0059J	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	0.077	ND (<0.0059				
1,1,2-Trichloroethane	79-00-5	7/13/2023	0.18	NE	ND (<0.0022)) ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	2) ND (<0.0022)
Tetrachloroethene	127-18-4	7/13/2023	11	0.46	0.017J	0.016J	0.016J	0.019J	0.12	0.1	0.15	0.15	0.018J	0.024J	0.031J	0.018J	0.019J	0.022J	0.020J	0.023J	0.028J	0.055J	0.035J	0.034J	0.017J	0.019J	0.018J	0.021J	0.028J
1,2-Dibromoethane	106-93-4	7/13/2023	0.0047	0.0047	ND (<0.0017)) ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	0.0030J	0.0045J	ND (<0.0017)	ND (<0.0017)	0.0048J	0.0023J	0.016J	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	0.0050J	ND (<0.0017)	0.0046J	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	0.0020J	ND (<0.0017)	7) ND (<0.0017
Ethylbenzene	100-41-4	7/13/2023	1.1	NE	0.12	0.19	0.15	0.14	0.2	0.19	0.19	0.2	0.23	0.3	0.25	0.17	0.16	0.26	0.32	0.19	0.21	0.14	0.35	0.33	0.14	2	0.24	0.21	0.12
p,&m-Xylene		7/13/2023	100	NE	0.4	0.71	0.49	0.46	0.63	0.62	0.65	0.64	0.76	0.6	0.6	0.57	0.53	0.78	1	0.62	0.55	0.44	1.1	1	0.44	7.7	0.83	0.58	0.39
o-Xylene	95-47-6	7/13/2023	100	NE	0.16	0.24	0.18	0.18	0.3	0.28	0.3	0.3	0.28	0.22	0.25	0.21	0.23	0.31	0.38	0.22	0.21	0.16	0.38	0.37	0.16	1.9	0.26	0.25	0.16
Styrene	100-42-5	7/13/2023	1000	940	0.048J	0.054J	0.041J	0.16	0.18	0.18	0.24	0.16	0.17	0.38	0.48	0.066J	0.23	0.37	0.3	0.16	0.16	0.2	0.26	0.16	0.098	0.44	0.21	0.31	0.054J
1,1,2,2-Tetrachloroethane	79-34-5	7/13/2023	0.048	0.048	ND (<0.0061)) ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	L) ND (<0.0061
Naphthalene	91-20-3	7/13/2023	0.083	NE	0.14	0.09	0.14	1.1	0.33	0.36	0.36	0.35	0.15	0.23	0.39	0.27	0.19	0.53	0.37	0.24	0.17	0.24	0.28	0.21	0.24	0.2	0.16	0.22	0.12

All concentrations are reported in micrograms per cubic meter (μ g/m3)

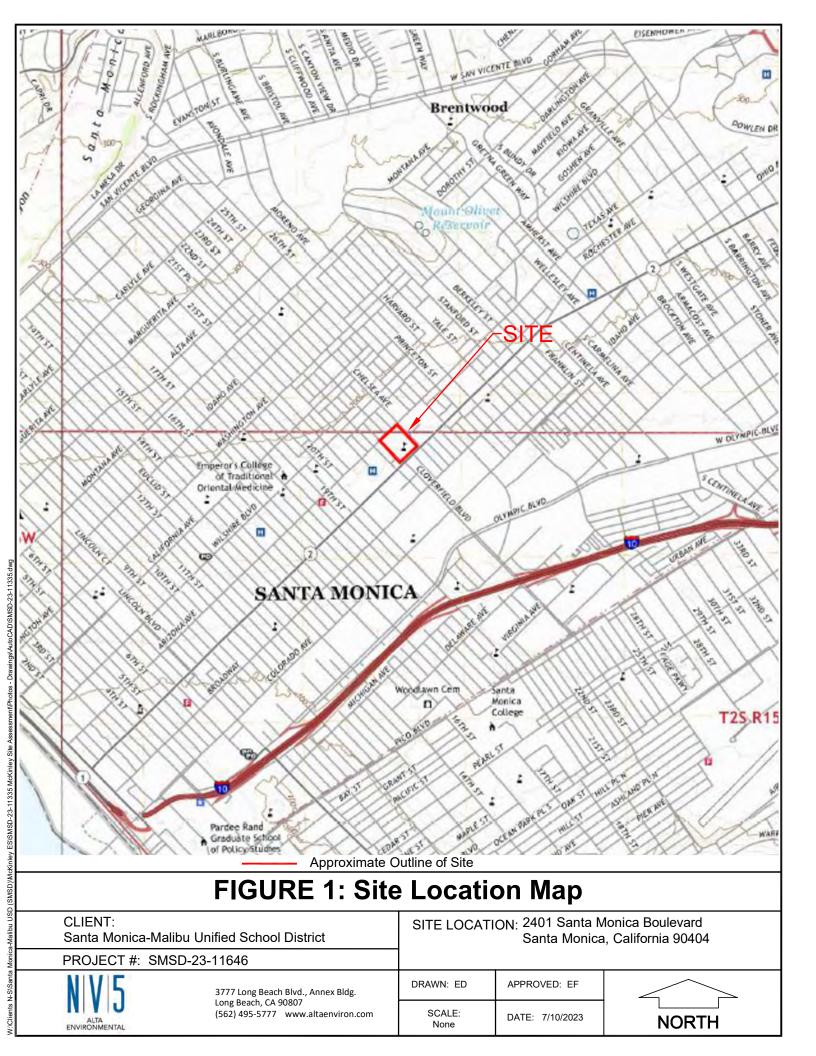
All concentrations are reported in micrograms per concentration (mp/ms) Concentrations highlighted in yellow exceeded a regulatory screening level RSL: United States Environmental Protection Agency Region IX - Regional Screening Level for Residential Air (May 2023) DTSC-SL: California Department of Toxic Substances Control Modified Screening Levels for Residential Air (June 2020 - Revised May 2022)

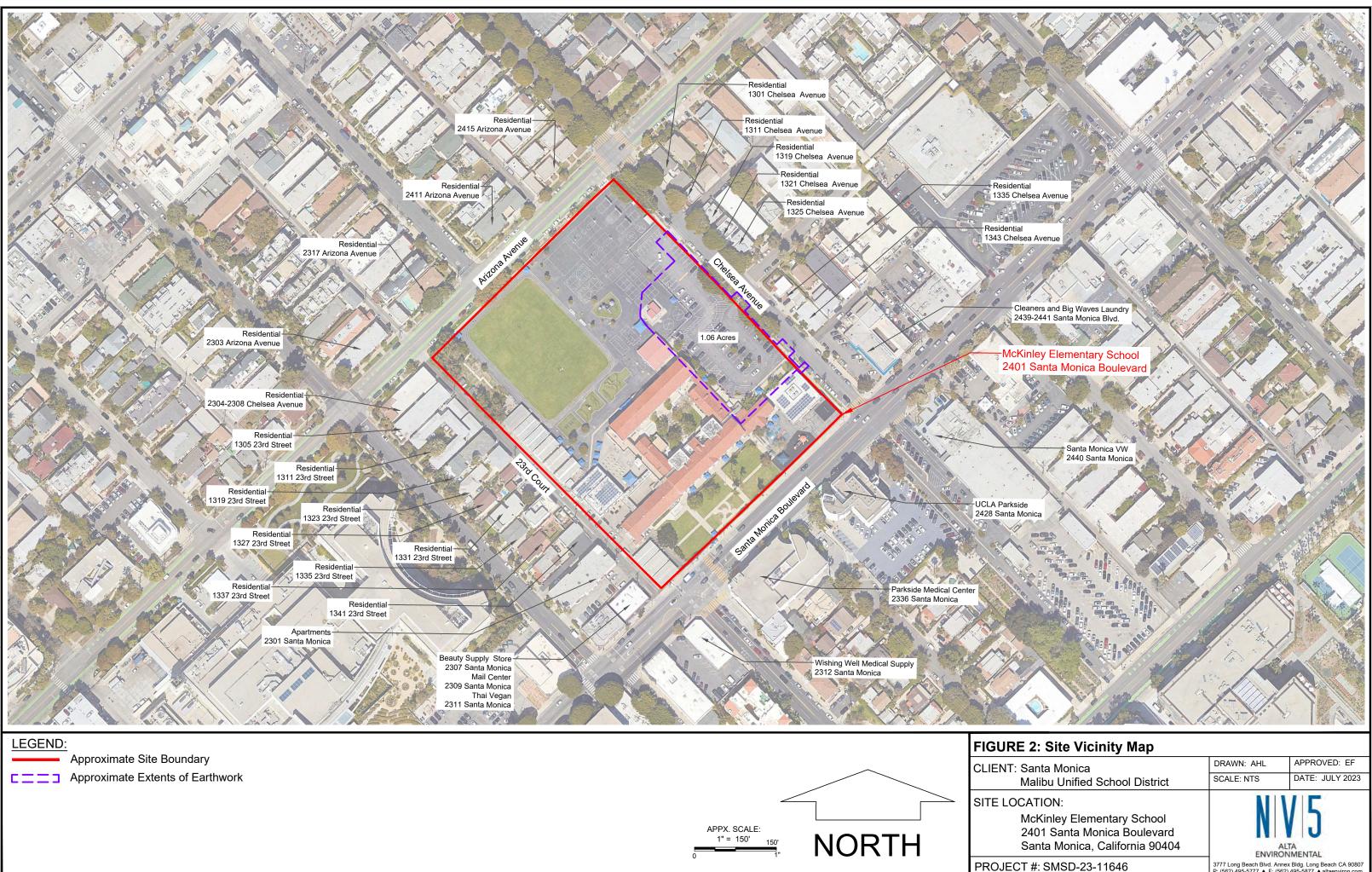
NE: Not Established

ND: Not detected above reported laboratory method detection limit (ND < MDL) J: Reported concentration is below laboratory reporting limit but below the laboratory method detection limit * DTSC-SL for TCE is the residential Accelerated Response Action Level for Residential Land use as described in the DTSC Hero Note 5 (August 2014)

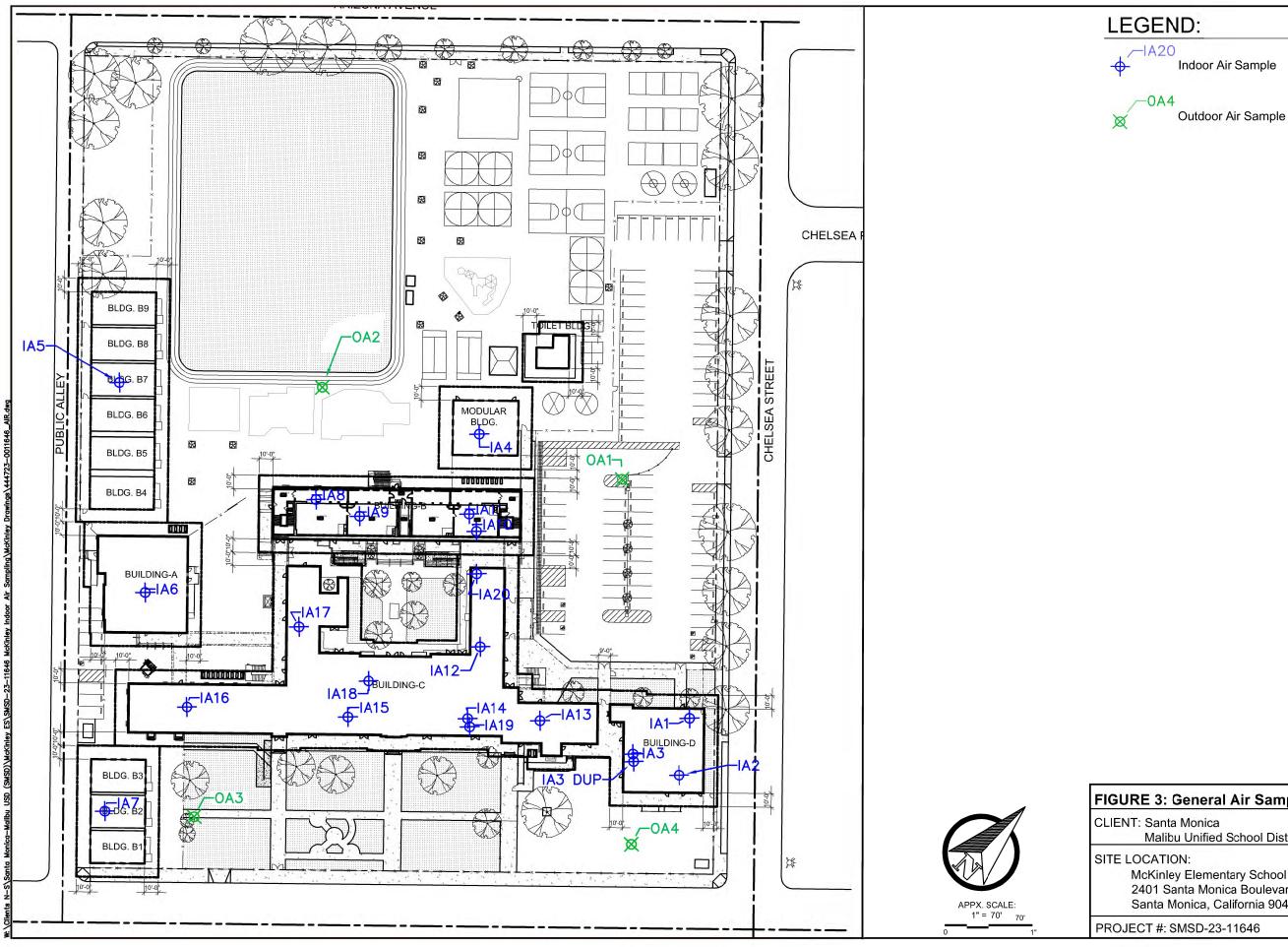


FIGURES



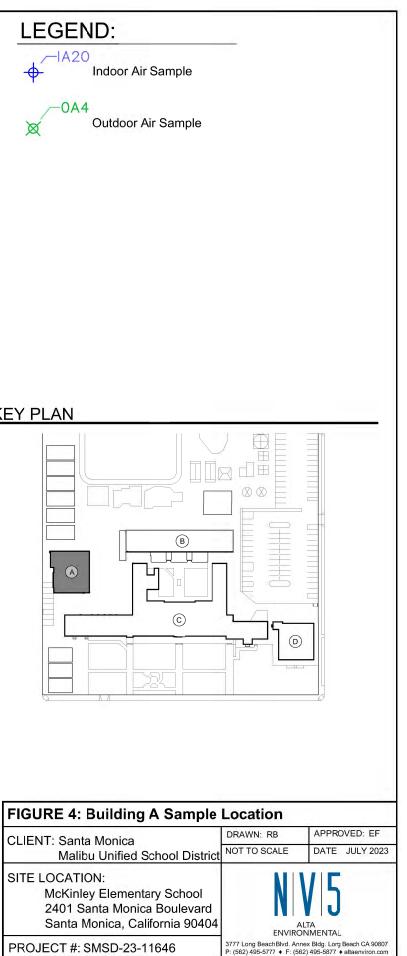


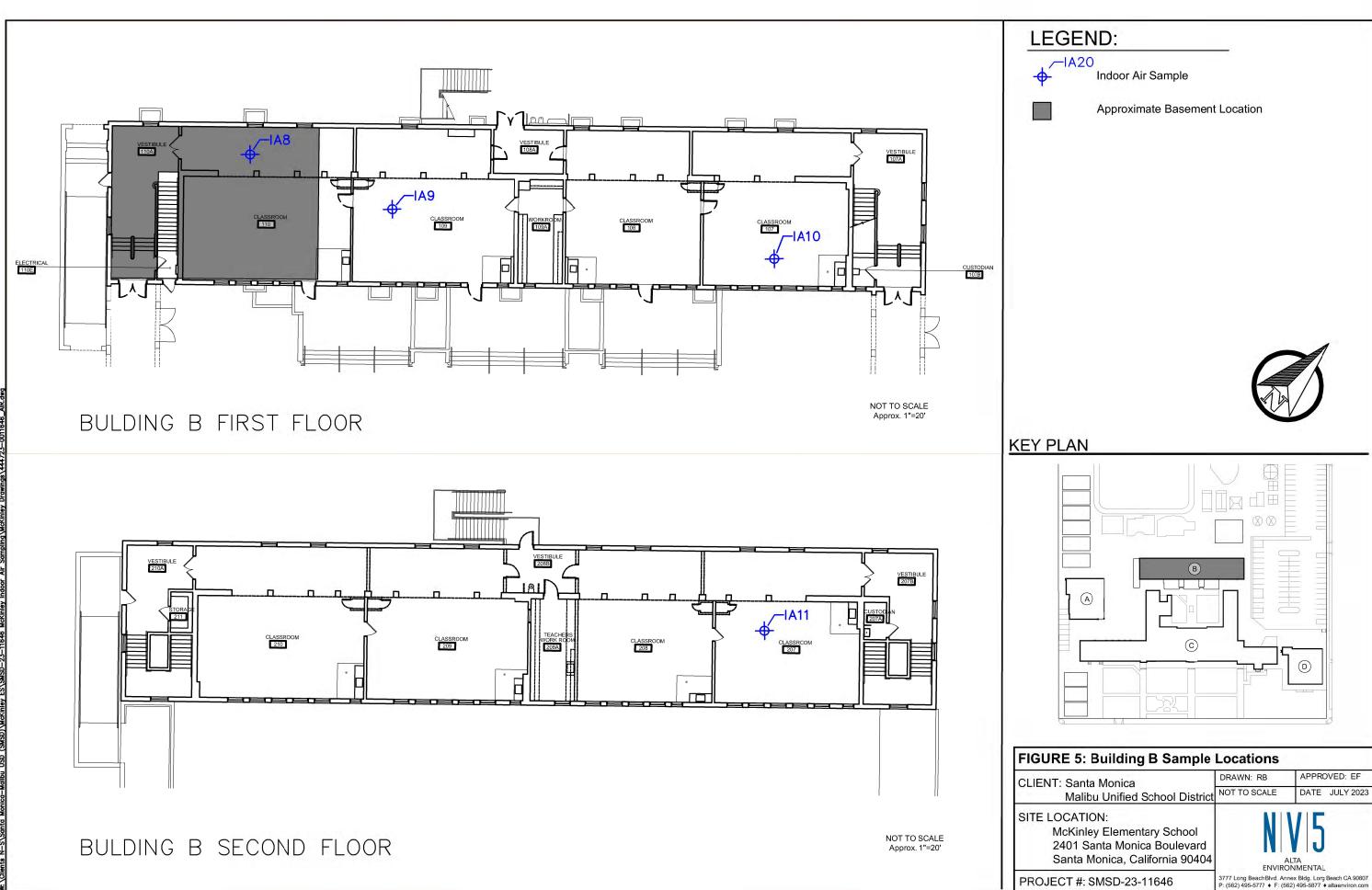
RE 2: Site vicinity Map		
T: Santa Monica	DRAWN: AHL	APPROVED: EF
Malibu Unified School District	SCALE: NTS	DATE: JULY 2023
OCATION: McKinley Elementary School 2401 Santa Monica Boulevard Santa Monica, California 90404		
ECT #: SMSD-23-11646	3777 Long Beach Blvd. Annex P: (562) 495-5777 ♦ F: (562)	



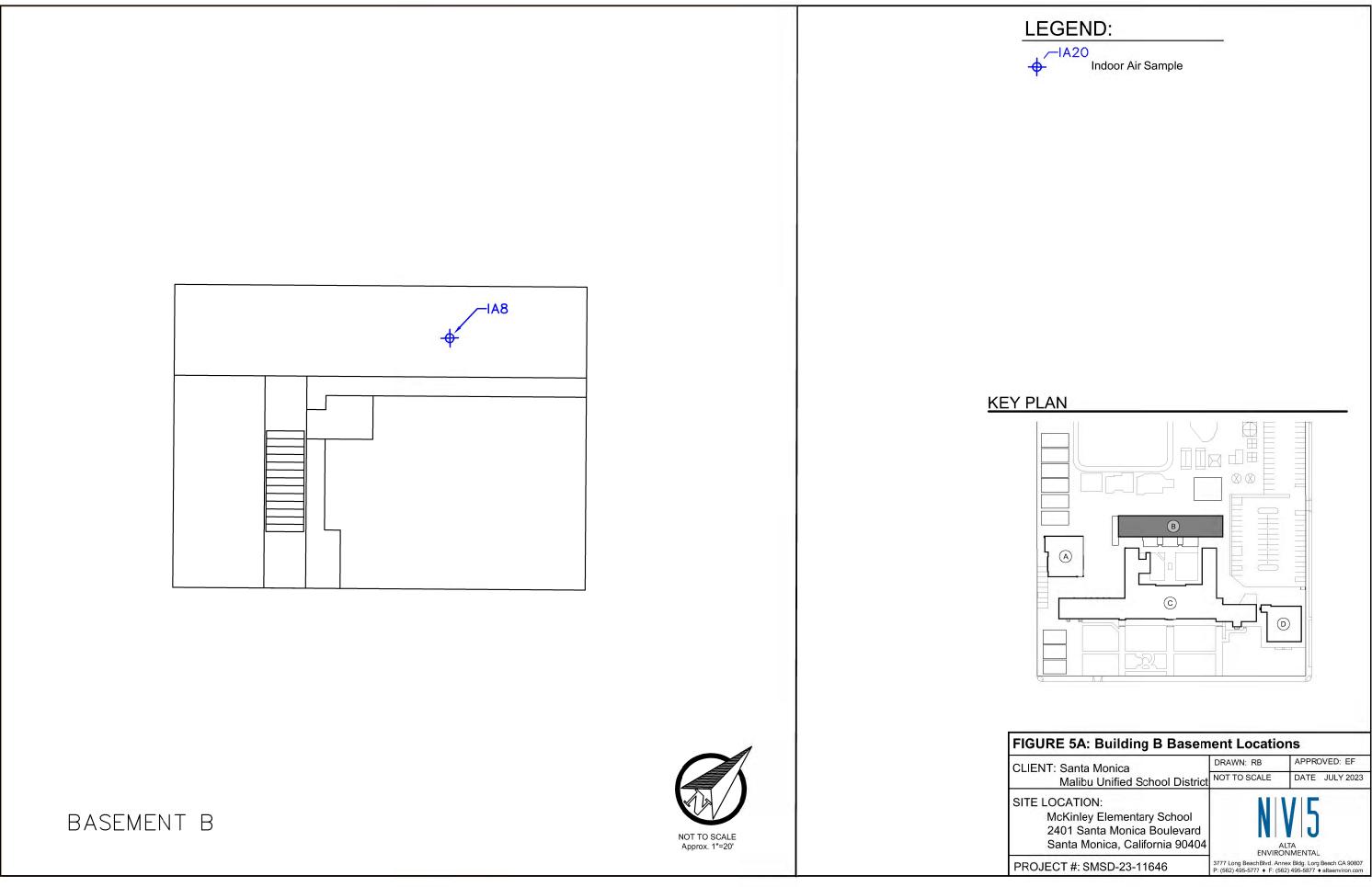
JRE 3: General Air Sample Locations								
NT: Santa Monica	DRAWN: RB	APPROVED: EF						
Malibu Unified School District	NOT TO SCALE	DATE JULY 2023						
LOCATION: McKinley Elementary School 2401 Santa Monica Boulevard Santa Monica, California 90404								
JECT #: SMSD-23-11646	3777 Long BeachBlvd. Anne: P: (562) 495-5777 ♦ F: (562)							

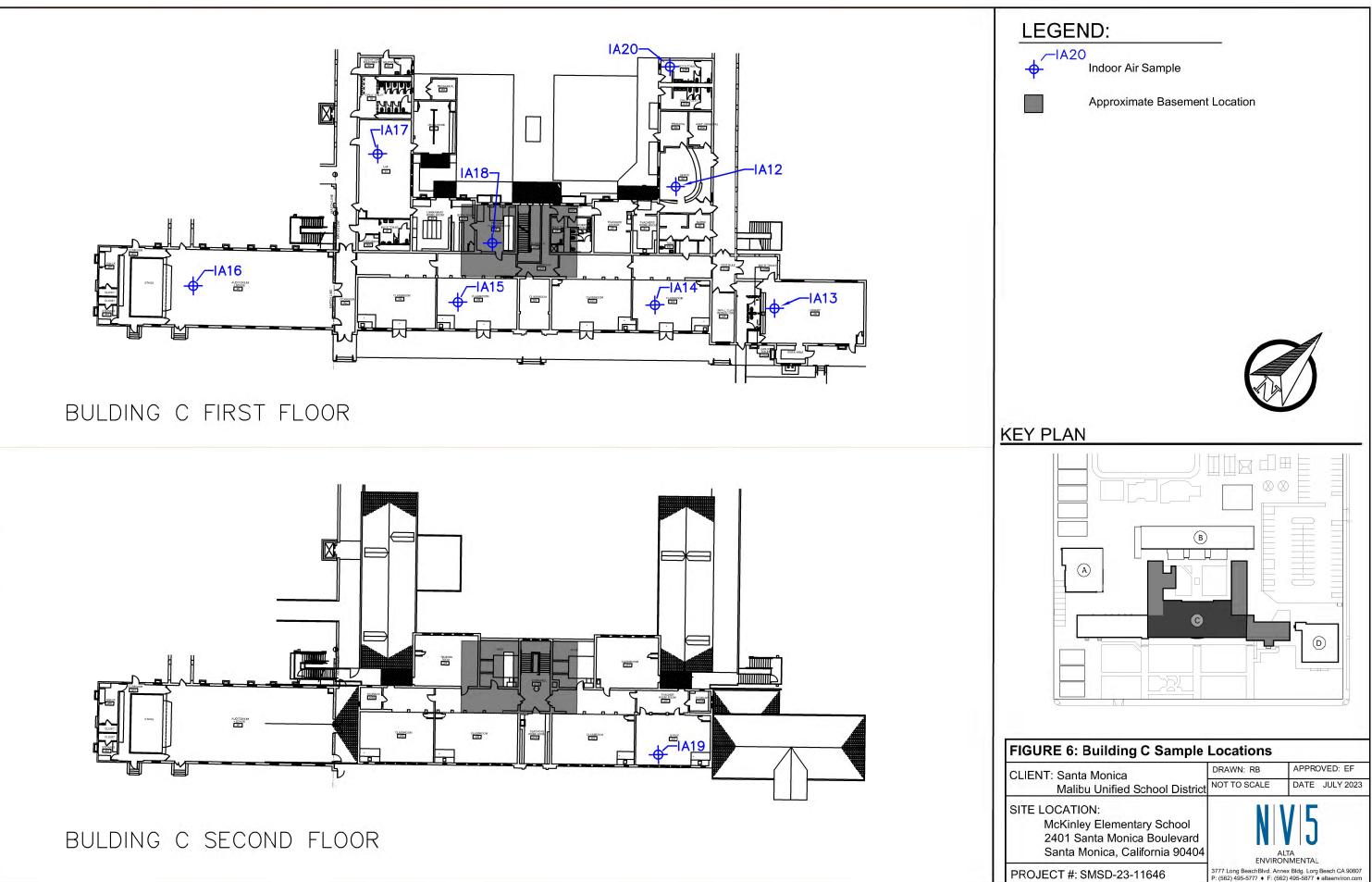
Ø DRY STORAG 98F SALAD BAR 97A KITCHEN TOILE 98E STORA 98C **KEY PLAN** OAFETERIA 97 ᢧ᠊᠊ᢦᢆ╱ᢩᢛ _____ Building A Floor Plan NOT TO SCALE Approx. 1"=20'



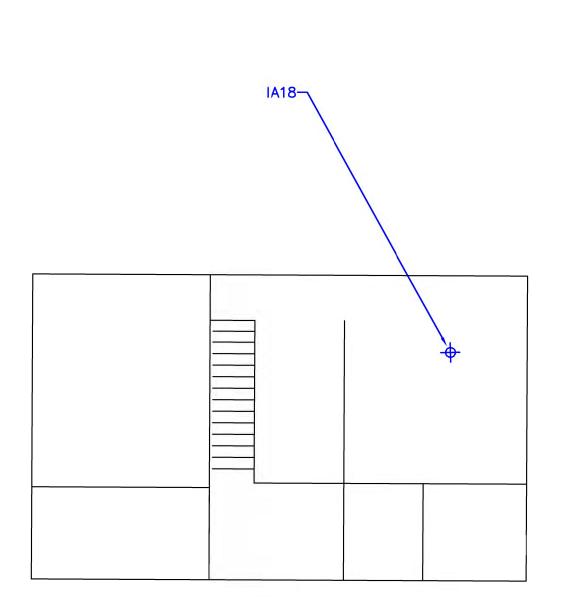


URE 5: Building B Sample Locations									
ENT: Santa Monica	DRAWN: RB	APPROVED: EF							
Malibu Unified School District	NOT TO SCALE	DATE JULY 2023							
E LOCATION: McKinley Elementary School 2401 Santa Monica Boulevard Santa Monica, California 90404		VI5							
OJECT #: SMSD-23-11646	3777 Long BeachBlvd. Ann	ex Bldg. Lorg Beach CA 90807 2) 495-5877 ♦ altaenviron.com							





BASEMENT C

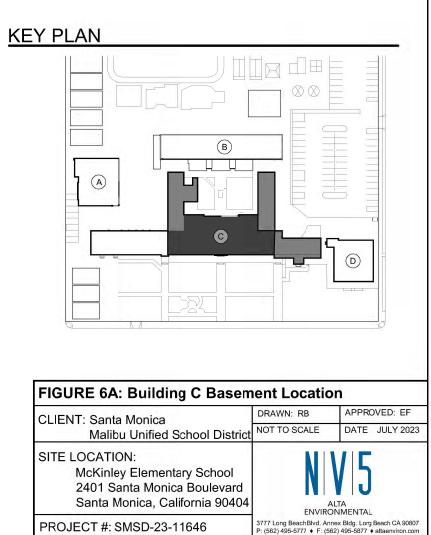


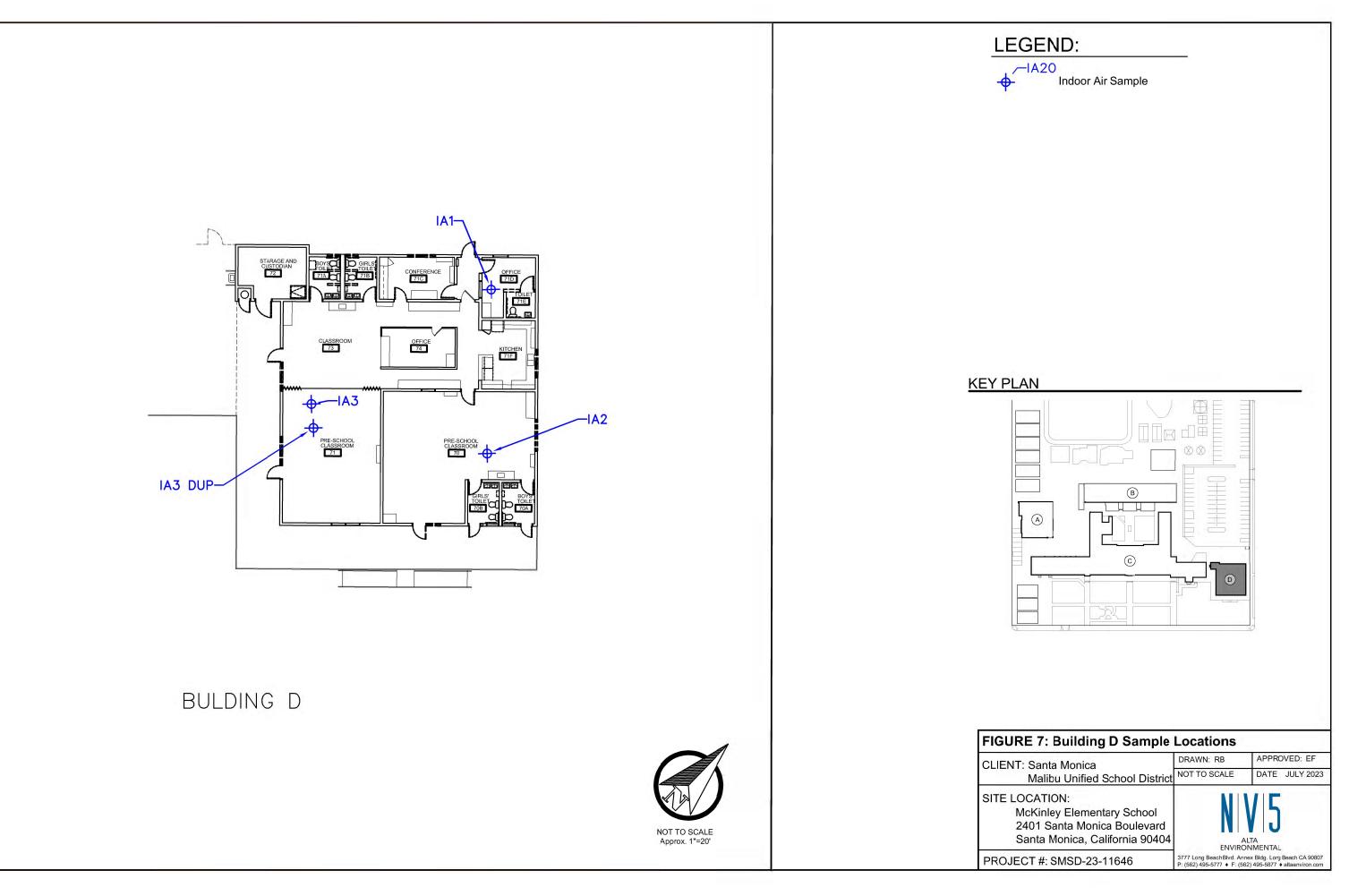


NOT TO SCALE Approx. 1"=10'



ф_____IA20 Indoor Air Sample





APPENDIX A

Building Screening Forms

This form should be used while conducting field screening (Step 3B.3, Supplemental Vapor Intrusion Guidance). An Indoor Source Screen Survey of indoor air will help identify potential sources of vapor forming chemicals (VFCs) and/or potential subsurface vapor entry points. Common screening tools, such as, Photoionization Detector (PID), Gas Chromatography-Photoionization Detector (GC-PID), Gas Chromatography-Mass Spectrometry (GC-MS), or Gas Chromatography-Electron Capture Detector (GC-ECD), should be used to detect the presence of VFCs in the air.

Use this form to document the room/area and location where the measurement was recorded during the Indoor Air Source Screen Survey, the field instrument type used, and the instrument reading and units. If a consumer product is identified and surrounding air tested, the location and the volatile ingredients of the product should be noted. (If the item(s) may be contributing VFCs to the indoor air, the items should be removed in advance of indoor air sampling.) This survey should be used to support the development of a conceptual understanding of how vapor intrusion may be occurring at the building and used in selecting sample locations for evaluating spatial distribution of VFCs in indoor air.

Site Information	Input
Building Address or Building ID:	
Site/Facility Name:	McKinley Elementary School
Screening Event Date:	6-Jul-23
Screening Event Time:	8AM to 11AM
Event Weather Conditions:	Clear, 65-68 F, Light Winds (3 mph) from Southwest
Name of Person(s) Sampling:	Eric Fraske and Ruta Bandziulis
Company Conducting Sampling:	
Field Instrument Type ¹ :	PID - ppbRAE 3000_V22
Instrument Calibration Date:	7/5/2023
Analyte Name:	Isobutylene 10 PPM

1 - Photoionization Detector (PID), Gas Chromatography-Photoionization Detector (GC-PID), Gas Chromatography-Mass Spectrometry (GC-MS), Gas Chromatography-Electron Capture Detector (GC-ECD), etc.

Page 2 of 3

Sample Room/Area	Sample Location	Sample ID	Instrument Reading	Units	Volatile Ingredients in Consumer Products Identified Near Sample
- 82 OFFICE	-		0.028	PPM	Hand sanitizer
-083 NURSE	-		0.035	1.1	HAND SANITIZER (HS)
- CARA CLOSET	-		0-352		HAND SANITIZER, ANTISEPTIC
- C83B	-		0.079		SOADD , ADRO DEODOR
- CS3C RR	-		0.062		(HS) 730 DIS INFECTANT
- C82A ASST. PRIN.			0.065		(HS)
CERA PRINCIPLE	-		0.075		(ads)
CTO552102	- NORTH	(0.083		(HS)
0102	-		0.088		(HS) SANTIZER SPRAY
· C102	- SINK COBINET		0.076		
CIUIA	-		0.128		
CIOI	- Be		0.120		Hand Soap
BR Hall	-		0.184		NEW MALL
(100 [HBRARY]	- EAST		0-144	(JER
. V. 41	- WEST		0.183		NEW CARPET, FURNITURE
C100B	- BOUS RR		0.144		RAISED FOUNDATON
CIOOA	- GIRLIS RR	10	0.168		RAISED FOUNATION
OFFICE 100	-		0.146	1.000	REGIRCULATING VENT
0103	- MAIN		0.144		WASHABLE PAINT,
+ {t] (- SINK		0.172		(HS) disinfectant
VA M	- NORTH	1	0,161		
C85 T. LOUNGE			0.152		(HS) allest works
4 4	- SONK		0.153		
C 84	-		2.146		(HS) FORFICE SUPPLY
080	-		0.156		Gland soop (HS)
C87			0,1577		
N D	- FLOOR DRAIN	1	0.159		Fout vent
C104C	-		1-108		
CIOUR		(ª	0,168		
CLOSE storage.			7.314		Pant, robber cement, shan
C105 .		1	2.199		1.0

Comments:

C

Sample	Sample	Sample	Instrument		Volatile Ingredients in
Room/Area	Location	ID	Reading	Units	Consumer Products
p	Loouton				Identified Near Sample
- A97	- MAIN		Q-197		
- A 98	- Kitch		0.201		
- A98A	- Mech		0 209		
- Agtza	- Salad		0.255		(HS)
- A98B	- Mech		0,233		
- A98C	-	1	0.480		
- A98G	- NO ACCESS				
- A98D	-		0.255		
- A98E	-		0.236		
- A98F	-		0.241		(HS) SPRAM CLEALEN
- MOP	-		0-239		Mop cleaner [730][24]
-	-				
-	-				
-	-				
-	-				
-	-				A
-	-				
-	-				
-	-				
-	-	-			
-	-				
-	-				
-	-				
-	-		1		
	-				
-	-				
-	-				
-	-				
	-				
-	-				
· · · · · · · · · · · · · · · · · · ·	-				
Comments:	A -> SLAB ON	CRACE			
	A 7 SCARS ON	CHEREDE	>		

Page 2 of 3

Page	2	of	3
	-		-

Sample Room/Area	Sample Location	Sample ID	Instrument Reading	Units	Volatile Ingredients in Consumer Products Identified Near Sample
- B SPRINKUPR EM	- EAST		0.200		carpet cheaner
	- SINK		0.204		
BIOTA	-		0.279	1	
-BIØ7	- NORTH	0.000	0.239		
· B107	- MAIN		0,247		[243]
BIOT	- SINK	· · · · · · · · · · · · · · · · · · ·	0.242		
BIRS	- MAIN		0.248		
· •	- SINK		0-245		[R43] (HS) CLOROX
. U	- NORTH	1	0.247		
BIOGA	- SINK		0.271		Kitchon cleaner [362]
· · · · ·	-		0.270		
13109	- MAIN		0,278		Clorox, disinfect CHS
44	- SINK		0-284		
4	- NORTH		0-283		
B108A	_		0.254		
BIIO	- MAIN		0.275		
17	- SINK		0.241		[243] (HS)
11	- NORTH		0.243		
BIOA	-		0,251		
BBasement	-		0.222		
BBIII			0.197		
BBIII	- CRawl		0,200		
BBil2	- PTA		0.230		(HS)
BBIL	- \ II.'		0.205		
B210A	_		0.227		
B211		1	0.331	-	
BHall	- Sort West		0.220		
B210 .			0.204		culle a pat (yet)
20.0			0.198		Strueis sweet (HS) CHS)
11	SINK	1 17	0.197		(MS)
B208 .	540~		8,195		
	08 SINK		0.198		(HS)
	used patron Foundation		Main (Nor-1	Ceiling TH Ceili	- (11.54) ~g(8.Ø4)
B10 B1. B111	1 CRAWL	÷			

Sample Room/Area	Sample Location	Sample ID	Instrument Reading	Units	Volatile Ingredients in Consumer Products Identified Near Sample
5204	- MAIN		0.204		
4	- SINK		0.209		(HS) [243]
SHALL	- EAST	1.277.1	0.198		
3207B	-		10.199	1	
BLOTA	-		0.200		SOAP (MS)
tl	- SINK		0.200	1	
BIO	- Modular BLDG		0.205		(45)
(I	- SINK		0.205		
BIL	-		107.1074		(HS)
W	- SINK		0.170		
PYGIROUNDR	- Roys	1000	0 168		
N	- GIRLS	1	0.174		
	- DRAIN GIRLS		0.170		
B9	-		0.336		(HS) PRINT
A	- SINK		0.350		Bleach
16	- Pant STORAGE		0.358		
B8	- MAIN		0.335	1.1.1.1.1	(HS)
11 10	- SINK		0.351		Tempura paint [730]
BH	- MAIN		0.299		(HS)
NI	- SINK		0.333		clorox upes blac 243
st	- Bathroom		0.321		Seap
BG	- MAIN		0.313		(MS) SOUP 443 243
н	- SINIC		0 344		Crayons smalls Exect
185	- MAIN		Ø-314		(HS)
u	- SINK		0.327		Dish saap 743
B4	- MAIN		0.308		(HS)
	- SINK	NOT AC	(ESS/RIE		243]
83	- MAIN		0.227		
	- SINK		1.255		(HS) [730][743]
BZ	- MAIN		8.276		07647 [243]
	= SINK		0.282		
B	NGALOWS ON Ungalows read UBIENT 12:25	B	> SLABOR	I GAR:	ADE
	com 0.248				
BI MAIN SINK	0,304 0,311		(HS) Soap (H	s)	
hed 0.181	CORNER - 12:497	m 0.18	(7)		NE CORNER: 12:58 0.134 Breez
	UIT -> PROPANE CAN	NS 0.162			

Page 2 of 3

Sample Room/Area	Sample Location	Sample ID	Instrument Reading	Units	Volatile Ingredients in Consumer Products Identified Near Sample
C Base ment	- MAIN	0.185			
C B88	-	0161			encinevator
	- CRawi	0.157			
CBSG	-	0.156			Server
CB8BX	-	0-164			
CB88 1	-	0.155			
CB&& Y	- SUMP	0.145			
CB88 F	F	0.150	1		
CB89	-	0.182			
C203B	-	0.194			
C203A WORK	-	0.246			(HS) SPLIT VENT
6203	- MAIN	0.183			cleaning [243]
0203	- SINK	0.196			Disinfectant wipes
C203A	- SINK	0.243			(243)
Hallway .	- EAST	0.201			
C202 -	-	0.177			
C202	- SINK	0.140			[243]
C100A	-	0.191	E La La	1.1	
C201	-	0184			(H5]
C201	- SINK	0.189			[243]
Hallway	- WEST	0.1977			
C205	-	0.182			[243] LYSOL
C205	- SINK	0.200		÷	
C204	-	0.183			(HS) PURPLE
0206	-	0.181			
0206	- SINK,	0.179			Newish Carpet (292)
C206A		0.197			
ELEVATOR	- NO ACCESS				1. S
	-				
	-				
	-				
pmments				-	
	B88 00	BESY			
	B38 B86	B88R			
	crawl	Buse	ment not to see	le	
	cnawl (poly)	Buse	ment not to see	le	

Begs of

Page 2 of 3

Page	2	of	3
	_	•	-

Sample Room/Area	Sample Location	Sample ID	Instrument Reading	Units	Volatile Ingredients in Consumer Products Identified Near Sample
2105	- SINK		0.204		CHEANING SUPPLY, MS
2105	- NORTH		0.191		
188 PLAN	-		0.224		LHS) simple green, puple
2106	- NORTH		0.208		
06	- MAIN		0.194		
106	- SINK		0.192		
967	- CORRIDOR_		0.198		(HS)
UDTORIUMCAG	-		0.192		(45)
stage	-		0 1/92		
C 96E	- WORTH		0.187		
C96E	- SOUTH		0+181		
CabD	- Room		0.184		
C96 D	- SINK		0.196		
C96D	- CLOSET		0.185		
CAGA	-	· · · · · · ·	0.250		
11 er	-		0.247		CLOVOX WIPES
90	- RR	·	0.187	i	
290	- FLOOR vent		0.151	1	
CAUR	- closet		0.265	- 1	CIGANNO, DESCALER, BASE BOAR
91 (science)	-		0,223		New CELLING, FLOUR, CASELURE
89	-		0.260		
21	- SINK		0.263		:
91	- SINK		0.254		
41	- Freshair intake		0,274		
72	-		0,205		
12	- FLOOR DRAIN		0.212		(HS)
(4		l)	0.170		Hydraulic oil
13	-		0.213		land sanitizer
5	-	0	11144		
SRB	-	(0.166		
SLA	-		3-166		

Indoor Air Source Screen Form

Sample Room/Area	Sample Location	Sample ID	Instrument Reading	Units	Volatile Ingredients in Consumer Products Identified Near Sample
DAO	-		0.280		(HS)
D7Ø	- SINK		0.350		Tempura Paint
D70B	-		0.222		Hand soap
D7ØA	-		0.209		
DHF	-		0.350		(MS) Defergent, Gasston
DHIF	-SINK		0.297		
DAIF	- WASHINGIMBCHIN	E	0.241		
DAID	-		0.254		
DAIE	- Restroom		0.258		Soap, COSMETICS Hairspran
DAIC	-		0.275		(HS)
Hallwarg	- North		0.229		
DAIB	-		0-2877		Seap, (HS)
DAIA			0.286		1100
DITIA	- FLOOR DRAIN		0.360		
DM3	-		0-344		
D73	- SINK		0.298		
DMI	-		0.293		
DM4	-		0.2579	1	
D72	-		1.222		
DA2	- Sink		0-124		
D72B	- Gras Water heater		0.181		
	-	1	:		
	-				
	-				
	-				
	-				
	-				
	-				
	-				
	-				

iomments: Exterior D - 11:20 Am 0.162 ppm

Person Conducting Survey	Input
Name:	Eric Fraske
Company:	NV5
Phone Number:	562-544-3910
Email:	eric.fraske@nv5.com
Building Contact Information	Input
Name:	Matt Smith
Contact Title:	Manager
Phone Number:	424-581-5428
Email:	msmith@smmusd.org
Building Occupant Interviewed?	Yes
Building Information	Input
Date of Building Survey (dd/mm/yy):	07/06/2013
*Building Name:	McKinley Building A - Cafeteria
*Building Address (Street, City):	2401 Santa Monica Blvd, Santa Monica, CA
Coordinates for Center of Building (Latitude, Longitude; decimal degrees to 0.00000):	34.03194; 118.477325
*Building Location Onsite/Offsite with respect to Site/Facility:	Onsite
*Year Built (yyyy; approximate if unsure):	1951
*Building Occupants:	ensitive Use (e.g., Child Care or Medical Facilit
Building Dimensions	Input
*Building Footprint Area (within enclosed	4600
space; square feet [ft ²]): Building Dimensions (at grade; feet by feet):	65 x 70
*Ceiling Height of Ground Floor (feet, [ft]):	14
*Number of Floors (excluding the basement):	1
Building Design	Input
*Building Design Type:	School
Has the design been modified?	No
*Foundation Type:	Slab-on-Grade
*Building Vapor Intrusion Mitigation System:	None
*Heating, Ventilation, & Air Conditioning (HVAC) System:	Heating & Cooling

Yes
Electricity
Other
0
9
5
0
2
No
Input
6
None
Unknown
No
Unknown
Input
21
Some Sealed
5
Minimal Open Windows or Doors
Minimal Open Windows or Doors Input
Input
Input NA
Input NA NA
Input NA NA NA
Input NA NA NA NA
Input NA NA NA NA N/A Input
Input NA NA NA NA Input NA
Input NA NA NA NA N/A Input NA NA
Input NA
Input NA Input NA NA NA NA NA NA NA

Factors Potentially Influencing Indoor Air Quality	Input
Is there an attached garage?	No
Is there smoking in the building?	No
Is there new carpet or furniture?	No
Have clothes or drapes been recently dry cleaned?	No
Has painting or staining been done with the last six months?	No
Has the building been recently remodeled?	No
Has the building ever had a fire?	Unknown
Is there a hobby or craft area in the building?	No
Are scented products (e.g. air fresheners, scented candles) regularly used inside?	No
Is there a chemical storage area at the building (e.g., solvent cleaners?	Yes
Is there a fuel oil tank on the property?	No
Is there a septic tank on the property?	No
Has the building been fumigated or sprayed for pests recently?	Unknown
Historically the building was primarily used for?	Other
Do current building occupants use solvents at another location (e.g., work, hobby)?	None
Meteorological Conditions	Input
Weather:	Clear
Outdoor Temperature - High (°F):	68
Outdoor Temperature - Low (°F):	64
Indoor Temperature (°F):	68
Barometric Pressure Reading (mmHg):	1.16
Wind Direction:	SW
Average Wind Speed (mph):	3
HVAC Setting for Current Season:	Cooling
Other Comments	

Building A - Cafeteria

Person Conducting Survey	Input
Name:	Eric Fraske
Company:	NV5
Phone Number:	562-544-3910
Email:	eric.fraske@nv5.com
Building Contact Information	Input
Name:	Matt Smith
Contact Title:	Manager
Phone Number:	424-581-5428
Email:	msmith@smmusd.org
Building Occupant Interviewed?	Yes
Building Information	Input
Date of Building Survey (dd/mm/yy):	07/06/2013
*Building Name:	McKinley Building B
*Building Address (Street, City):	2401 Santa Monica Blvd, Santa Monica, CA
Coordinates for Center of Building (Latitude, Longitude; decimal degrees to 0.00000):	34.032133; 118.477275
*Building Location Onsite/Offsite with respect to Site/Facility:	Onsite
*Year Built (yyyy; approximate if unsure):	1925
*Building Occupants:	ensitive Use (e.g., Child Care or Medical Facilit
Building Dimensions	Input
*Building Footprint Area (within enclosed space; square feet [ft ²]):	14000
Building Dimensions (at grade; feet by feet):	180 x 36
*Ceiling Height of Ground Floor (feet, [ft]):	14
*Number of Floors (excluding the basement):	2
Building Design	Input
*Building Design Type:	School
Has the design been modified?	No
*Foundation Type:	Partial Basement
*Building Vapor Intrusion Mitigation System:	None
*Heating, Ventilation, & Air Conditioning (HVAC) System:	Heating & Cooling

HVAC System has an Air Intake?	Yes
•	
Type of Energy Used in Building?	Electricity
Energy Primarily Used For?	Other
Number of Units for Multi-Unit Buildings:	0
Number of Rooms (average per unit for multi- unit buildings):	10
Number of Exterior Doors:	14
Number of Elevators:	0
Number of Active Exhaust Fans (e.g., kitchen/bathroom):	0
Chimney or Other Vertical Draft Source?	No
Building Slab	Input
Slab Thickness (inches; approximate if unsure):	6
Largest Slab Penetration > 1 Foot Diameter:	None
Soil Type (USCS) 0 to 3 Feet Below Building:	Unknown
Evidence of Moisture Intrusion from Below Slab?	No
Diferential Pressure Measurement Points?	Unknown
Building Windows and Doors	Input
Number of Windows and Exterior Doors:	88
Weather Sealed Windows and Exterior Doors?	Some Sealed
Average Area of Window Open to Outside Air (ft ²):	2
Ventilation (e.g., windows, doors, garage doors) Under Typical Use Conditions	Minimal Open Windows or Doors
Building Crawl Space	Input
Crawl Space Height (ft):	3
Number Crawl Space Vents:	14
Average Area per Crawl Space Vent (Feet2):	3
Evidence of moisture intrusion into Crawl Space from Soil?	No
Building Basement	Input
Basement Height (Feet):	8
Basement Footprint Area (ft ²):	1500
Basement Wall Area Below Ground Surface (ft ²):	1200
Exposed Basement above grade?	Yes
Vents or Windows above-grade in exposed basement?	Yes
Unfinished Basement?	No
Evidence of moisture intrusion into Basement from Soil?	No

Factors Potentially Influencing Indoor Air Quality	Input
Is there an attached garage?	No
Is there smoking in the building?	No
Is there new carpet or furniture?	No
Have clothes or drapes been recently dry cleaned?	No
Has painting or staining been done with the last six months?	No
Has the building been recently remodeled?	No
Has the building ever had a fire?	Unknown
Is there a hobby or craft area in the building?	Yes
Are scented products (e.g. air fresheners, scented candles) regularly used inside?	No
Is there a chemical storage area at the building (e.g., solvent cleaners?	Yes
Is there a fuel oil tank on the property?	No
Is there a septic tank on the property?	No
Has the building been fumigated or sprayed for pests recently?	Unknown
Historically the building was primarily used for?	Other
Do current building occupants use solvents at another location (e.g., work, hobby)?	Painting/Finishing
Meteorological Conditions	Input
Weather:	Clear
Outdoor Temperature - High (°F):	68
Outdoor Temperature - Low (°F):	64
Indoor Temperature (°F):	68
Barometric Pressure Reading (mmHg):	1.16
Wind Direction:	SW
Average Wind Speed (mph):	3
HVAC Setting for Current Season:	Cooling
Other Comments	

Building B - Classrooms

Person Conducting Survey	Input
Name:	Eric Fraske
Company:	NV5
Phone Number:	562-544-3910
Email:	eric.fraske@nv5.com
Building Contact Information	Input
Name:	Matt Smith
Contact Title:	Manager
Phone Number:	424-581-5428
Email:	msmith@smmusd.org
Building Occupant Interviewed?	Yes
Building Information	Input
Date of Building Survey (dd/mm/yy):	07/06/2013
*Building Name:	McKinley Building C
*Building Address (Street, City):	2401 Santa Monica Blvd, Santa Monica, CA
Coordinates for Center of Building (Latitude, Longitude; decimal degrees to 0.00000):	34.032133; 118.477275
*Building Location Onsite/Offsite with respect to Site/Facility:	Onsite
*Year Built (yyyy; approximate if unsure):	1925
*Building Occupants:	ensitive Use (e.g., Child Care or Medical Facilit
Building Dimensions	Input
*Building Footprint Area (within enclosed space; square feet [ft ²]):	25000
Building Dimensions (at grade; feet by feet):	340 x 40
*Ceiling Height of Ground Floor (feet, [ft]):	14
*Number of Floors (excluding the basement):	2
Building Design	Input
*Building Design Type:	School
Has the design been modified?	No
*Foundation Type:	Partial Basement
*Building Vapor Intrusion Mitigation System:	None
*Heating, Ventilation, & Air Conditioning (HVAC) System:	Heating & Cooling

HVAC System has an Air Intake?	Yes
•	
Type of Energy Used in Building?	Electricity
Energy Primarily Used For?	Other
Number of Units for Multi-Unit Buildings:	0
Number of Rooms (average per unit for multi- unit buildings):	42
Number of Exterior Doors:	47
Number of Elevators:	1
Number of Active Exhaust Fans (e.g., kitchen/bathroom):	0
Chimney or Other Vertical Draft Source?	Yes
Building Slab	Input
Slab Thickness (inches; approximate if unsure):	6
Largest Slab Penetration > 1 Foot Diameter:	None
Soil Type (USCS) 0 to 3 Feet Below Building:	Unknown
Evidence of Moisture Intrusion from Below Slab?	No
Diferential Pressure Measurement Points?	Unknown
Building Windows and Doors	Input
Number of Windows and Exterior Doors:	152
Weather Sealed Windows and Exterior Doors?	Some Sealed
Average Area of Window Open to Outside Air (ft ²):	2
Ventilation (e.g., windows, doors, garage doors) Under Typical Use Conditions	Minimal Open Windows or Doors
Building Crawl Space	Input
Crawl Space Height (ft):	3
Number Crawl Space Vents:	22
Average Area per Crawl Space Vent (Feet2):	3
Evidence of moisture intrusion into Crawl Space from Soil?	No
Building Basement	Input
Basement Height (Feet):	8
Basement Footprint Area (ft ²):	1500
Basement Wall Area Below Ground Surface (ft ²):	1200
Exposed Basement above grade?	Yes
Vents or Windows above-grade in exposed basement?	Yes
Unfinished Basement?	Yes
Evidence of moisture intrusion into Basement from Soil?	No

Factors Potentially Influencing Indoor Air Quality	Input
Is there an attached garage?	No
Is there smoking in the building?	No
Is there new carpet or furniture?	Yes
Have clothes or drapes been recently dry cleaned?	No
Has painting or staining been done with the last six months?	Yes
Has the building been recently remodeled?	Yes
Has the building ever had a fire?	Unknown
Is there a hobby or craft area in the building?	Yes
Are scented products (e.g. air fresheners, scented candles) regularly used inside?	No
Is there a chemical storage area at the building (e.g., solvent cleaners?	Yes
Is there a fuel oil tank on the property?	No
Is there a septic tank on the property?	No
Has the building been fumigated or sprayed for pests recently?	Unknown
Historically the building was primarily used for?	Other
Do current building occupants use solvents at another location (e.g., work, hobby)?	Painting/Finishing
Meteorological Conditions	Input
Weather:	Clear
Outdoor Temperature - High (°F):	68
Outdoor Temperature - Low (°F):	64
Indoor Temperature (°F):	68
Barometric Pressure Reading (mmHg):	1.16
Wind Direction:	SW
Average Wind Speed (mph):	3
HVAC Setting for Current Season:	Cooling
Other Comments	

Building C - Classrooms, Offices, Auditorium, and Library

Person Conducting Survey	Input
Name:	Eric Fraske
Company:	NV5
Phone Number:	562-544-3910
Email:	eric.fraske@nv5.com
Building Contact Information	Input
Name:	Matt Smith
Contact Title:	Manager
Phone Number:	424-581-5428
Email:	msmith@smmusd.org
Building Occupant Interviewed?	Yes
Building Information	Input
Date of Building Survey (dd/mm/yy):	07/06/2013
*Building Name:	McKinley Building D - Pre-School
*Building Address (Street, City):	2401 Santa Monica Blvd, Santa Monica, CA
Coordinates for Center of Building (Latitude, Longitude; decimal degrees to 0.00000):	34.032161; 118.476419
*Building Location Onsite/Offsite with respect to Site/Facility:	Onsite
*Year Built (yyyy; approximate if unsure):	1977
*Building Occupants:	ensitive Use (e.g., Child Care or Medical Facilit
Building Dimensions	Input
*Building Footprint Area (within enclosed space; square feet [ft ²]):	5000
Building Dimensions (at grade; feet by feet):	70 x 75
*Ceiling Height of Ground Floor (feet, [ft]):	13
*Number of Floors (excluding the basement):	1
Building Design	Input
*Building Design Type:	School
Has the design been modified?	No
*Foundation Type:	Slab-on-Grade
*Building Vapor Intrusion Mitigation System:	None
*Heating, Ventilation, & Air Conditioning (HVAC) System:	Heating & Cooling

Vaa
Yes
Electricity
Other
0
10
8
0
2
No
Input
6
None
Unknown
No
Unknown
Input
Input
Input 21
Input 21 Some Sealed
Input 21 Some Sealed 0
Input 21 Some Sealed 0 All Windows and Doors Closed
Input 21 Some Sealed 0 All Windows and Doors Closed Input
Input 21 Some Sealed 0 All Windows and Doors Closed Input NA
Input 21 Some Sealed 0 All Windows and Doors Closed Input NA NA
Input 21 Some Sealed 0 All Windows and Doors Closed Input NA NA NA
Input 21 Some Sealed 0 All Windows and Doors Closed Input NA NA NA NA
Input 21 Some Sealed 0 All Windows and Doors Closed Input NA NA NA NA NA
Input 21 Some Sealed 0 All Windows and Doors Closed Input NA NA NA NA NA NA
Input 21 Some Sealed 0 All Windows and Doors Closed Input NA
Input 21 Some Sealed 0 All Windows and Doors Closed Input NA
Input 21 Some Sealed 0 All Windows and Doors Closed Input NA NA </td

Factors Potentially Influencing Indoor Air Quality	Input				
Is there an attached garage?	No				
Is there smoking in the building?	No				
Is there new carpet or furniture?	No				
Have clothes or drapes been recently dry cleaned?	No				
Has painting or staining been done with the last six months?	No				
Has the building been recently remodeled?	No				
Has the building ever had a fire?	Unknown				
Is there a hobby or craft area in the building?	Yes				
Are scented products (e.g. air fresheners, scented candles) regularly used inside?	No				
Is there a chemical storage area at the building (e.g., solvent cleaners?	Yes				
Is there a fuel oil tank on the property?	No				
Is there a septic tank on the property?	No				
Has the building been fumigated or sprayed for pests recently?	Unknown				
Historically the building was primarily used for?	Other				
Do current building occupants use solvents at another location (e.g., work, hobby)?	Painting/Finishing				
Meteorological Conditions	Input				
Weather:	Clear				
Outdoor Temperature - High (°F):	68				
Outdoor Temperature - Low (°F):	64				
Indoor Temperature (°F):	68				
	1.16				
Barometric Pressure Reading (mmHg):					
Barometric Pressure Reading (mmHg): Wind Direction:	SW				
	SW 3				
Wind Direction:					

Building D - Preschool

Person Conducting Survey	Input				
Name:	Eric Fraske				
Company:	NV5				
Phone Number:	562-544-3910				
Email:	eric.fraske@nv5.com				
Building Contact Information	Input				
Name:	Matt Smith				
Contact Title:	Manager				
Phone Number:	424-581-5428				
Email:	msmith@smmusd.org				
Building Occupant Interviewed?	Yes				
Building Information	Input				
Date of Building Survey (dd/mm/yy):	07/06/2013				
*Building Name:	Portable Classroom Building B7				
*Building Address (Street, City):	2401 Santa Monica Blvd, Santa Monica, CA				
Coordinates for Center of Building (Latitude, Longitude; decimal degrees to 0.00000):	34.031872; 118.477914				
*Building Location Onsite/Offsite with respect to Site/Facility:	Onsite				
*Year Built (yyyy; approximate if unsure):	2005				
*Building Occupants:	ensitive Use (e.g., Child Care or Medical Facilit				
Building Dimensions	Input				
*Building Footprint Area (within enclosed space; square feet [ft ²]):	1000				
Building Dimensions (at grade; feet by feet):	44 x 22				
*Ceiling Height of Ground Floor (feet, [ft]):	9				
*Number of Floors (excluding the basement):	1				
Building Design	Input				
*Building Design Type:	School				
Has the design been modified?	No				
*Foundation Type:	Crawl Space				
*Building Vapor Intrusion Mitigation System:	None				
*Heating, Ventilation, & Air Conditioning (HVAC) System:	Heating & Cooling				

HVAC System has an Air Intake?	Yes					
Type of Energy Used in Building?	Electricity					
Energy Primarily Used For?	Other					
Number of Units for Multi-Unit Buildings:	0					
Number of Rooms (average per unit for multi- unit buildings):	1					
Number of Exterior Doors:	1					
Number of Elevators:	0					
Number of Active Exhaust Fans (e.g., kitchen/bathroom):	1					
Chimney or Other Vertical Draft Source?	No					
Building Slab	Input					
Slab Thickness (inches; approximate if unsure):	6					
Largest Slab Penetration > 1 Foot Diameter:	None					
Soil Type (USCS) 0 to 3 Feet Below Building:	Unknown					
Evidence of Moisture Intrusion from Below Slab?	No					
Diferential Pressure Measurement Points?	Unknown					
Building Windows and Doors	Input					
Number of Windows and Exterior Doors:	5					
Weather Sealed Windows and Exterior Doors?	Some Sealed					
Average Area of Window Open to Outside Air (ft ²):	8					
Ventilation (e.g., windows, doors, garage doors) Under Typical Use Conditions	Minimal Open Windows or Doors					
Building Crawl Space	Input					
Crawl Space Height (ft):	1					
Number Crawl Space Vents:	18					
Average Area per Crawl Space Vent (Feet2):	0.5					
Evidence of moisture intrusion into Crawl Space from Soil?	N/A					
Building Basement	Input					
Basement Height (Feet):	NA					
Basement Footprint Area (ft ²):	NA					
Basement Wall Area Below Ground Surface (ft ²):	NA					
Exposed Basement above grade?	N/A					
Vents or Windows above-grade in exposed basement?	N/A					
Unfinished Basement?	N/A					
Evidence of moisture intrusion into Basement from Soil?	No					

Factors Potentially Influencing Indoor Air Quality	Input					
Is there an attached garage?	No					
Is there smoking in the building?	No					
Is there new carpet or furniture?	No					
Have clothes or drapes been recently dry cleaned?	No					
Has painting or staining been done with the last six months?	No					
Has the building been recently remodeled?	No					
Has the building ever had a fire?	Unknown					
Is there a hobby or craft area in the building?	Yes					
Are scented products (e.g. air fresheners, scented candles) regularly used inside?	No					
Is there a chemical storage area at the building (e.g., solvent cleaners?	Yes					
Is there a fuel oil tank on the property?	No					
Is there a septic tank on the property?	No					
Has the building been fumigated or sprayed for pests recently?	Unknown					
Historically the building was primarily used for?	Other					
Do current building occupants use solvents at another location (e.g., work, hobby)?	Painting/Finishing					
Meteorological Conditions	Input					
Weather:	Clear					
Outdoor Temperature - High (°F):	68					
Outdoor Temperature - Low (°F):	64					
Indoor Temperature (°F):	68					
Barometric Pressure Reading (mmHg):	1.16					
Wind Direction:	SW					
Average Wind Speed (mph):	3					
HVAC Setting for Current Season:	Cooling					
Other Comments						

Portable Classroom Building B7 - Portable Classroom on Raised Foundation

Person Conducting Survey	Input				
Name:	Eric Fraske				
Company:	NV5				
Phone Number:	562-544-3910				
Email:	eric.fraske@nv5.com				
Building Contact Information	Input				
Name:	Matt Smith				
Contact Title:	Manager				
Phone Number:	424-581-5428				
Email:	msmith@smmusd.org				
Building Occupant Interviewed?	Yes				
Building Information	Input				
Date of Building Survey (dd/mm/yy):	07/06/2013				
*Building Name:	Modular Building B10				
*Building Address (Street, City):	2401 Santa Monica Blvd, Santa Monica, CA				
Coordinates for Center of Building (Latitude, Longitude; decimal degrees to 0.00000):	34.032375; 118.477233				
*Building Location Onsite/Offsite with respect to Site/Facility:	Onsite				
*Year Built (yyyy; approximate if unsure):	2002				
*Building Occupants:	ensitive Use (e.g., Child Care or Medical Facilit				
Building Dimensions	Input				
*Building Footprint Area (within enclosed space; square feet [ft ²]):	2500				
Building Dimensions (at grade; feet by feet):	50 x 50				
*Ceiling Height of Ground Floor (feet, [ft]):	9				
*Number of Floors (excluding the basement):	1				
Building Design	Input				
*Building Design Type:	School				
Has the design been modified?	No				
*Foundation Type:	Slab-on-Grade				
*Building Vapor Intrusion Mitigation System:	None				
*Heating, Ventilation, & Air Conditioning (HVAC) System:	Heating & Cooling				

Yes					
Electricity					
Other					
0					
2					
2					
0					
2					
No					
Input					
6					
None					
Unknown					
No					
Unknown					
Input					
6					
Some Sealed					
8					
Most Windows and/or Doors Open					
Input					
1					
1					
4					
No					
Input					
NA					
NA					
NA					
N/A					
N/A					

Factors Potentially Influencing Indoor Air Quality	Input					
Is there an attached garage?	No					
Is there smoking in the building?	No					
Is there new carpet or furniture?	No					
Have clothes or drapes been recently dry cleaned?	No					
Has painting or staining been done with the last six months?	No					
Has the building been recently remodeled?	No					
Has the building ever had a fire?	Unknown					
Is there a hobby or craft area in the building?	Yes					
Are scented products (e.g. air fresheners, scented candles) regularly used inside?	No					
Is there a chemical storage area at the building (e.g., solvent cleaners?	Yes					
Is there a fuel oil tank on the property?	No					
Is there a septic tank on the property?	No					
Has the building been fumigated or sprayed for pests recently?	Unknown					
Historically the building was primarily used for?	Other					
Do current building occupants use solvents at another location (e.g., work, hobby)?	Painting/Finishing					
Meteorological Conditions	Input					
Weather:	Clear					
Outdoor Temperature - High (°F):	68					
Outdoor Temperature - Low (°F):	64					
Indoor Temperature (°F):	68					
Barometric Pressure Reading (mmHg):	1.16					
Wind Direction:	SW					
Average Wind Speed (mph):	3					
HVAC Setting for Current Season:	Cooling					
Other Comments						

Modular Building - Classroom B10

APPENDIX B

Air Sampling Field Logs and Photographs



Summa Canister Sam	npling Log	Date: <u>7/13/23</u>	Page:1 of5				
Summa Canister Size: 6 Liter		Project Name: McKinley ES Indoor Air Sampling					
NV5 Employees: EF, NS, RB		Project Number: SMSD-23-11646					
Laboratory: Air Technology Laboratories		Client: Santa Monica Malibu Unified School District					
Total Samples Submitted:	25	Site Address: 2401 Santa Monica Blvd, Santa Monica, CA					
Total Duplicates:	1						

Sam	ole ID	Canis	ter ID	Flow Co	ontrol ID	Initial V	/acuum	Initial Time		Sample Location														
0/	A1	N47	788	2017		-30"Hg		-30"Hg		-30"Hg		-30"Hg		-30"Hg		-30"Hg		-30"Hg		-30"Hg		7:	36	Faculty Parking Lot
Time:	9:38	11:45	1:31	3:15						Notes														
Vacuum:	-24	-17	-12	-7																				

Sam	ole ID	Canister ID		Flow Control ID		Initial V	Initial Vacuum		Time	Sample Location																						
0/	A2	24	18	2007		-28"Hg		-28"Hg		-28"Hg		-28"Hg		-28"Hg		-28"Hg		-28"Hg		-28"Hg		-28"Hg		-28"Hg		-28"Hg		-28"Hg		7:	43	North Playground
Time:	9:43	11:47	1:34	3:20						Notes																						
Vacuum:	-22	-15	-10	-4																												

Sample ID		Canister ID		Canister ID		Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location										
0/	43	N4791		2138		-30"Hg		-30"Hg		-30"Hg		-30"Hg		-30"Hg		-30"Hg		-30"Hg		7:	50	Southwest Lawn
Time:	9:54	11:51	1:39	3:24						Notes												
Vacuum:	-23	-16	-10	-4																		

Sample ID		Canis	ter ID	Flow Co	Flow Control ID		Initial Vacuum		Time	Sample Location										
0/	۹4	31	3101		2102		-30"Hg		-30"Hg		-30"Hg		-30"Hg		-30"Hg		-30"Hg		55	Southeast Playground
Time:	9:57	11:53	1:40	3:27						Notes										
Vacuum:	-25	-20	-16	-11																

Sam	Sample ID Canister		ter ID	Flow Control ID		Initial V	/acuum	Initial	Time	Sample Location
IA	A1	N4′	134	20	77	-30	"Hg	8:04		Building D Room 71D
Time:	10:04	11:55	1:43	3:51						Notes
Vacuum:	-24	-17	-14	-5						



Summa Canister Sampling Lo	Date: <u>7/13/23</u> Page:2_ of5	5
Summa Canister Size: 6 Liter	Project Name: McKinley ES Indoor Air Sampling	
NV5 Employees: EF, NS, RB	Project Number: SMSD-23-11646	
Laboratory: Air Technology Laboratories	Client: Santa Monica Malibu Unified School District	
Total Samples Submitted: 25	Site Address: 2401 Santa Monica Blvd, Santa Monica, CA	
Total Duplicates: 1		

Sam	ole ID	Canister ID		Flow Co	ontrol ID	Initial V	/acuum	Initia	Time	Sample Location
LA IA	2	14	60	20	11	-30	"Hg	8:04		Building D Room 70
Time:	10:02	11:54	1:42	3:47						Notes
Vacuum:	-25	-18	-13	-6						

Sam	ple ID	Canis	ter ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location
I.A	43	31	00	20	56	-30	"Hg	8:05		Building D Room 71
Time:	9:58	11:54	1:41	3:11						Notes
Vacuum:	-22	-15	-9	-5						

Samp	ole ID	Canis	ter ID	Flow Co	ontrol ID	Initial V	/acuum	Initia	Time	Sample Location
IA3	DUP	N47	755	20	49	-29	"Hg	8:05		Building D Room 71
Time:	9:58	11:54	1:41	3:11						Notes
Vacuum:	-23	-18	-12	-8						

Sam	ole ID	Canis	ter ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location
I.A	\4	13	40	21	31	-30	"Hg	8:15		Modular Building B10
Time:	9:40	1:46	1:32	3:34						Notes
Vacuum:	-25	-17	-12	-5						

Sam	Sample ID Canister ID		ter ID	Flow Control ID		Initial V	/acuum	Initial	Time	Sample Location
IA	\ 5	N47	752	20	86	-30	"Hg	8:17		Portable Classroom B7
Time:	9:44	1:47	1:34	3:37						Notes
Vacuum:	-26	-19	-13	-6						



Summa Caniste	er Sampling Log	Date: <u>7/13/23</u> Page: <u>3</u> 0						
Summa Canister Size: 6 Liter		Project Name: McKinley ES Indoor Air Samplir	ng					
NV5 Employees: EF, NS, RB		Project Number: SMSD-23-11646						
Laboratory: Air Technology Labora	tories	Client: Santa Monica Malibu Unified School Distric	t					
Total Samples Submitted:	25	Site Address: 2401 Santa Monica Blvd, Santa Monica, C	A					
Total Duplicates:	1							

Sam	Sample ID Canister ID		ter ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location
I.A	46	N47	754	21	22	-30	"Hg	8:21		Portable Classroom B2
Time:	9:50	11:50	1:37	3:42						Notes
Vacuum:	-25	-19	-13	-6						

Sam	ple ID	Canis	ter ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location
I.A	47	54	78	21	08	-30	"Hg	8:20		Cafeteria
Time:	9:46	11:50	1:35	3:41						Notes
Vacuum:	-25	-18	-12	-6						

Sam	ole ID	Canis	ter ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location
I.A	48	31	43	21	29	-30	"Hg	8:28		Building B Basement
Time:	10:22	12:02	1:48	3:53						Notes
Vacuum:	-25	-18	-8	-5						

Sam	ole ID	Canis	ter ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location
I.A	\ 9	14	72	20	33	-30	"Hg	8:30		Building B Room 109
Time:	10:23	12:03	1:49	3:54						Notes
Vacuum:	-25	-20	-15	-10						

Sam	Sample ID Canister ID		ter ID	Flow Control ID		Initial V	/acuum	Initial	Time	Sample Location	
IA	.10	54	13	21	16	-30"Hg		8:31		Building B Room 107	
Time:	10:25	12:03	1:49	3:55						Notes	
Vacuum:	-24	-18	-12	-5							



	Summ	na Caniste	er Sampli	ng Log		Date: <u>7/1</u>	<u>3/23</u>		P	age:4 of5_		
Summa Ca	nister Size:	6 Liter				Project Nan	ne:	McKinley E	S Indoor	Air Sampling		
NV5 Emplo	yees:	EF, NS, RB				Project Number: SMSD-23-11646						
Laboratory	: Air Techno	logy Labora	tories			Client: Santa Monica Malibu Unified School District						
Total Samp	les Submitte	ed:	25			Site Addres	s: 2401 San	ta Monica Bl	vd, Santa	a Monica, CA		
Total Dupli	cates:		1									
Sam	ple ID	Canis	ster ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location		
IA	IA11		30	21	109	-30	"Hg	8:	33	Building B Room 20		
Time:	10:27	12:05	1:51	3:57						Notes		
Vacuum:	-25	-20	-15	-8								
Sample ID Canister ID		ster ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location			
IA12		1444		21	2115		"Hg	8:	38	Administration Office		
Time:	9:36	11:33	1:28	4:07						Notes		
Vacuum:	-28	-21	-14	-6								
Sam	ple ID	Canis	ster ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location		
	13	54	72	21	135	-30"Hg		8:42		Library		
Time:	10:05	12:06	1:44	4:02						Notes		
Vacuum:	-25	-15	-13	-5								
Sam	ple ID	Canis	ster ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location		
IA	14	36	641	20	040	-18	"Hg	8:4	43	Building C Room 10		
Time:	10:06	11:20	11:55	12:09	12:29	12:50				Notes		
Vacuum:	-13	-9	-8	-7	-6	-5						
Sam	ple ID	Canis	ster ID	Flow Co	ontrol ID	Initial V	/acuum	Initial	Time	Sample Location		
1.4	15	27	40	24	106	20	"Ца	0.	16	Building C Doom 10		

Sam	ole ID	Canis	Canister ID Flow Control ID Initial Vacuum		/acuum	Initial Time		Sample Location		
IA	IA15		3740		2126		-29"Hg		45	Building C Room 105
Time:	10:08	11:56	1:45	2:33						Notes
Vacuum:	-23	-15	-8	-5						



Summa Caniste	er Sampling Log	Date: <u>7/13/23</u>	Page:5 of5					
Summa Canister Size: 6 Liter		Project Name: McKinley ES Indoor Air Sampling						
NV5 Employees: EF, NS, RB		Project Number: SMSD-23	-11646					
Laboratory: Air Technology Labora	tories	Client: Santa Monica	Malibu Unified School District					
Total Samples Submitted:	25	Site Address: 2401 Santa I	Monica Blvd, Santa Monica, CA					
Total Duplicates:	1							

Sam	ole ID	Canis	ter ID	er ID Flow Control ID Initial Vacuum Initial Time		Time	Sample Location			
IA16		5432		2036		-30"Hg		8:47		Auditorium
Time:	10:10	11:58	1:45	4:03						Notes
Vacuum:	-27	-19	-15	-8						

Sample ID		Canister ID		Flow Control ID		Initial Vacuum		Initial Time		Sample Location
IA	17	35	47	20	35	-29	"Hg	8:48		STEM Lab
Time:	10:12	11:59	1:46	4:05						Notes
Vacuum:	-25	-20	-15	-9						

Sample ID		Canister ID		Flow Control ID		Initial Vacuum		Initial Time		Sample Location
IA18		N4132		1940		-30"Hg		8:52		Building C Basement
Time:	10:15	12:00	1:55	4:12						Notes
Vacuum:	-25	-19	-12	-5						

Sam	ole ID	Canis	ter ID	Flow Co	ontrol ID	Initial V	/acuum	Initial Time		Sample Location
IA	19	36	81	21	03	-29"Hg		8:54		Building C Room 202
Time:	10:16	12:09	1:56	4:14						Notes
Vacuum:	-26	-20	-15	-7						

Sam	ample ID Canister ID		Flow Control ID		Initial V	/acuum	Initia	Time	Sample Location	
IA	20	36	21	20	58	-30"Hg		9:01		Boys Restroom
Time:	10:19	12:01	1:54	4:09						Notes
Vacuum:	-28	-22	-15	-8						Building C NE Wing



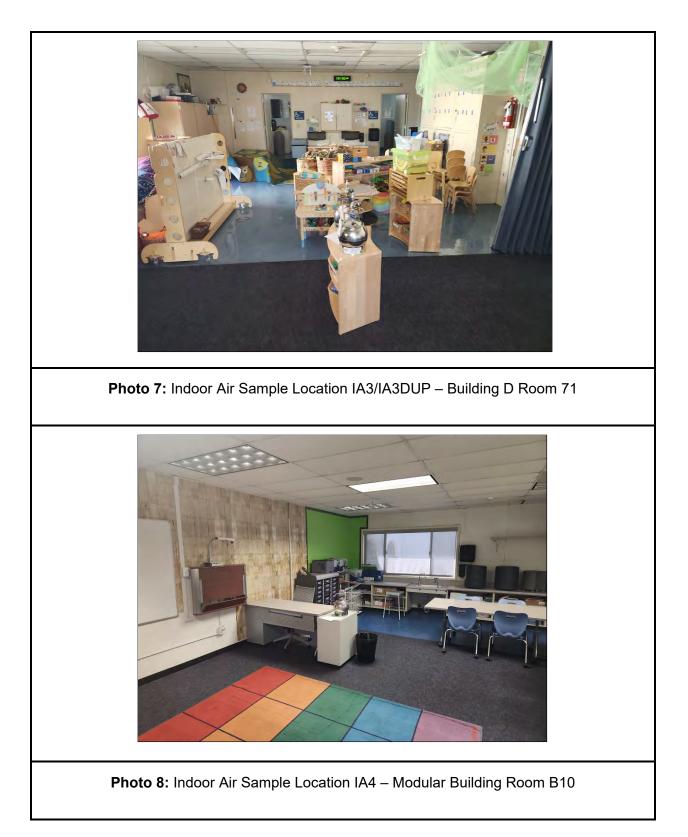








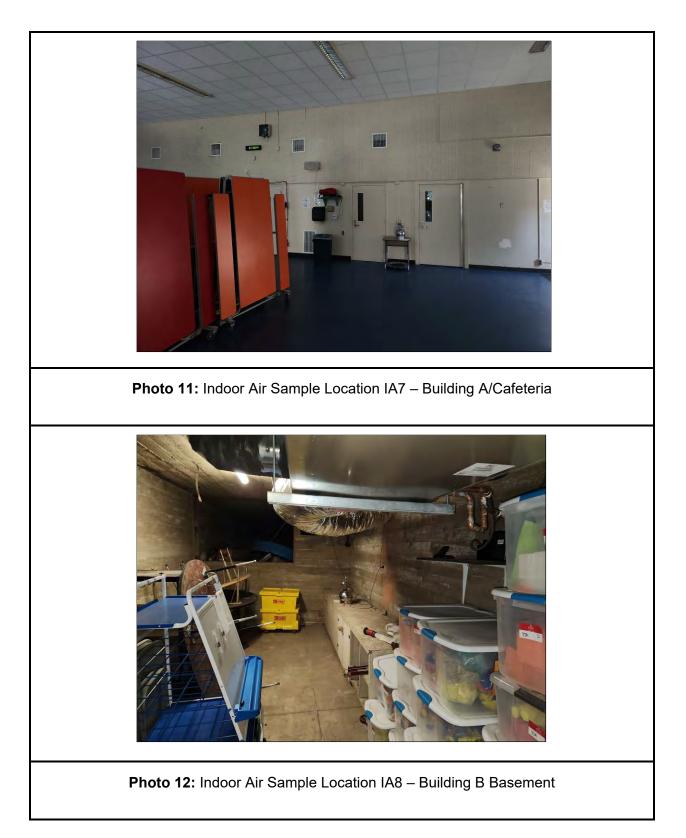




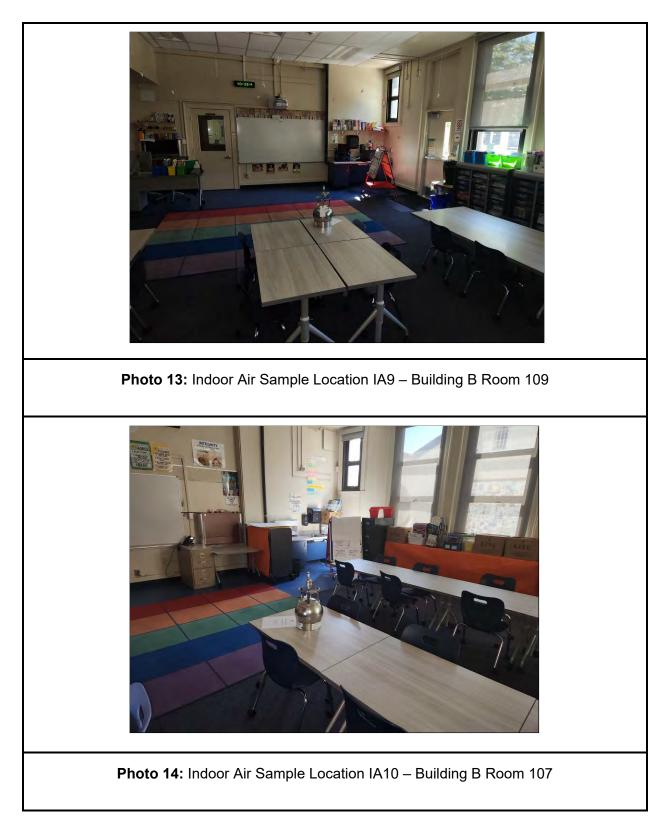




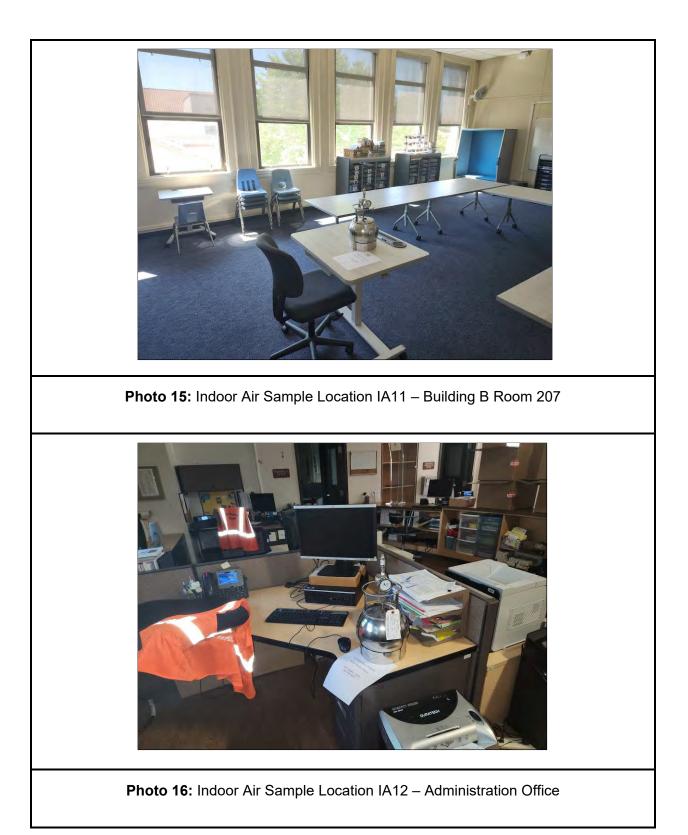








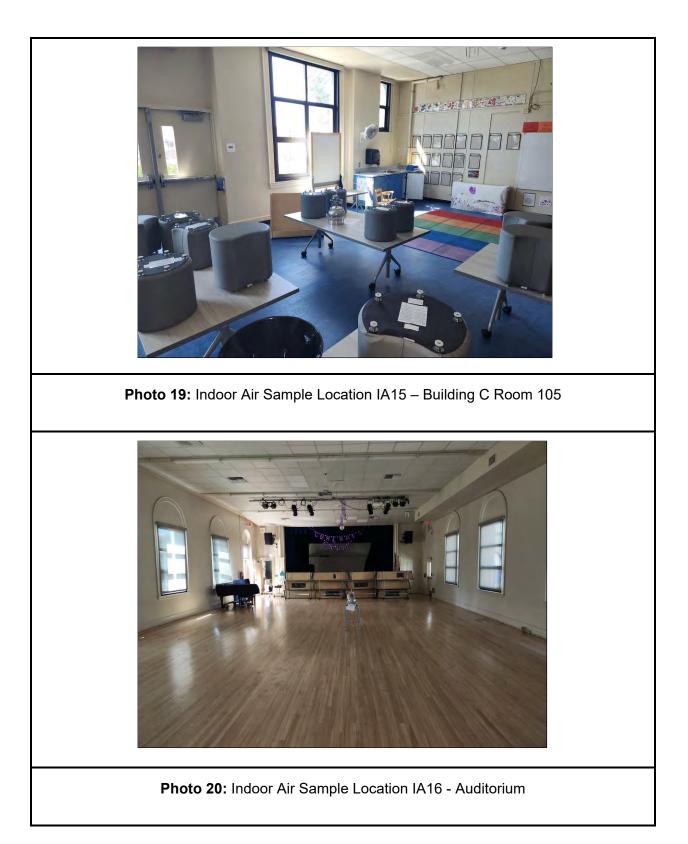




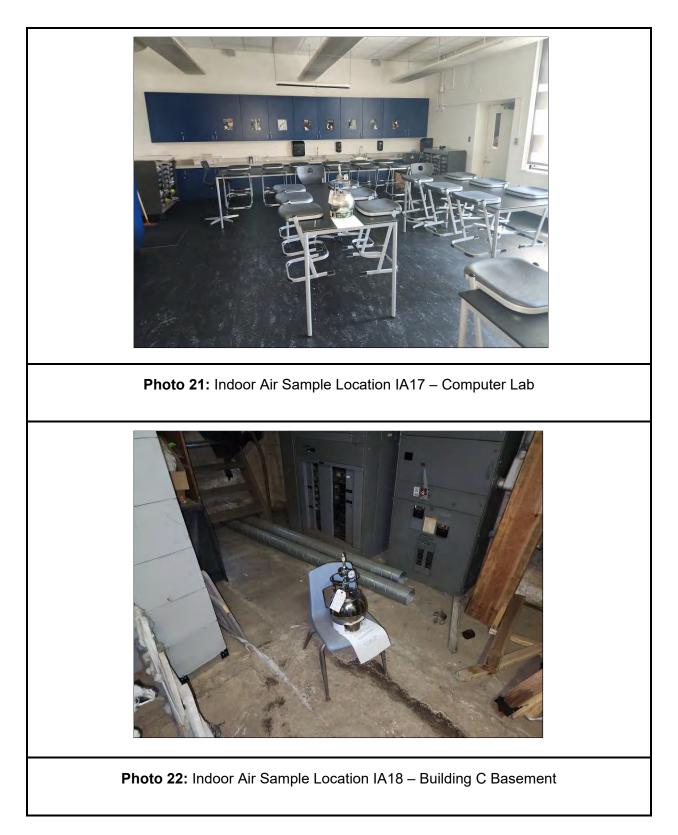


















APPENDIX C

Laboratory Analytical Results



July 20, 2023



LA Cert #04140 EPA Methods TO3, TO14A, TO15, 25C/3C, ASTM D1946, RSK-175

> TX Cert T104704450-14-6 EPA Methods T014A, T015

UT Cert CA0133332015-3 EPA Methods TO3, TO14A, TO15, RSK-175

NV5 ATTN: Eric Fraske 3777 Long Beach Blvd., Annex Building Long Beach, CA 90807

LABORATORY TEST RESULTS

Project Reference:	McKinley Elementary School
Project Number:	SMSD-23-11646
Lab Number:	P071401-01/25

Enclosed are results for sample(s) received 7/14/23 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Modifications to EPA Method TO15 SIM Naphthalene required quadratic regression calibration.
- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Eric Fraske on 7/19/23.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson Operations Manager MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

	1000	and the second	10501 E. Oala Aug. Duite 120			CH	IAIN	OF C	USTO	DY R	ECORD			
IAIT	FECH	NOLOGY	18501 E. Gale Ave., Suite 130 City of Industry, CA 91748	TUF	RNAROU				LIVERA		PAGE:	1	OF	3
1	Labora	tories, Inc.	Ph: 626-964-4032	Standard		48 hours		1	EDD		Condition u	pon receip	pt:	
			Fx: 626-964-5832	Same Day		72 hours			EDF			Sealed	Yes	No 🗖
Project No.:	SMSD-23	-11646		24 hours		96 hours		-			-	Intact	Yes	No 🗖
Project Name:	McKinley	Elementary School		Other:					Level 4			Chilled	_	deg C
Report To:	Eric Frask	e			BIL	LING				A	NALYSIS F	REQUES	зт	
Company:	NV5			P.O. No.:	SMSD-	23-1164	6							
Street:	3777 Long	g Beach Blvd, Annex Build	ding	Bill to:	NV5			1						
City/State/Zip:	Long Bea	ch, CA 90807		3777 Lor	ng Beac	h Blvd,	Anne	x	5					
Phone& Fax:	562-544-3			Long Bea	ach, CA	90807		_	SIM					
e-mail:	eric.frask	e@nv5.com		-				_	015 ene					
15		1	3 8 4 4 5 3 T 1	ш.,,	ш	ER Se	×	-A-	oy T thate					
LAB USE	ONLY	SAMPLE I	DENTIFICATION	SAMPLE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA- TION	VOCs by TO15 + Napthalene					
				ŝ	PM	89	~	PRE	>+					
Po7/40	1-81	OA1		7/13/2023	3:15	1 Can	Air	None	X	(1
I	-02	OAZ		7/13/2023	3:20	1 Can	Air	None	X			1		
	-03	OA3		7/13/2023	3:24	1 Can	Air	None	х	1.11				
	-04	OAY		7/13/2023	\$227	1 Can	Air	None	X				÷	
	-05	TA1		7/13/2023	3:51	1 Can	Air	None	x					
	-06	IAZ		7/13/2023	3:47	1 Can	Air	None	x					
	-07	IA3		1	3:11		1.1		X			-+		
	-08	IAJDUP		7/13/2023	3:11	1 Can	Air	None				\rightarrow	-	
	-09			7/13/2023		1 Can	1	None	X			\rightarrow	-	
		TAY		7/13/2023	3:34	1 Can	Air	None	X					
V	-10	TA5		7/13/2023	3:34	1 Can	Air	None	Х					
AUTHORIZATION TO PE	RFORM WORK	PAG COMPANY	5	DATE/TIME 7/13/2	3	COMME	NTS							
SAMPLED BY		TA BANDZIULIS,	NUIAH STEAME TH	DATE/TIME										
RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME	-									
RELINQUISHED BY		15:45 01/13/23 DATE/TIME	RECEIVED BY	DATE/TIME	5:45									
RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME										
METHOD OF TR	ANSPORT (c	ircle one): Walk-In Fed	Ex UPS Courier ATLI O	ther	_									

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCI N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09

		in a second second				CH	AIN	OF C	USTO	DY R	ECORD			
AIT	FECH	INOLOGY	18501 E. Gale Ave., Suite 130 City of Industry, CA 91748	TUF	RNAROU			-	LIVERA		PAGE:	2	OF	3
1	Labora	tories, Inc.	Ph: 626-964-4032	Standard		48 hours			EDD		Condition u	pon recei	pt	
			Fx: 626-964-5832	Same Day		72 hours			EDF			Sealed	Yes	No 🗖
Project No.:	SMSD-23	-11646		24 hours		96 hours			Level 3			Intact	Yes	No 🗖
Project Name:	McKinley	Elementary School		Other:					Level 4			Chilled		deg C
Report To:	Eric Frask	ke			BIL	LING				A	NALYSIS F	REQUES	ST	
Company:	NV5			P.O. No.:	SMSD-	23-1164	46	_		1				
Street:	3777 Long	g Beach Blvd, Annex Build	ding	Bill to:	NV5		_							
City/State/Zip:	Long Bea	ch, CA 90807		3777 Lor	ng Beac	h Blvd,	Anne	ex	-					
Phone& Fax:	562-544-3	3910		Long Bea	ach, CA	90807			SIM					
e-mail:	eric.frask	e@nv5.com						1.1	015 ne	1				
				щ.,,	ш	ER S	×	-A-	oy T thale				i d	
LAB USE	ONLY	SAMPLE I	DENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA. TION	VOCs by TO15 + Napthalene					
P071401	-11	TA6		7/13/2023	3:42	1 Can	Air	a. None	≥ + X			\rightarrow		
1	-12	TA7		7/13/2023	3:41	1 Can	Air	None	x					
2	-13	TA8		7/13/2023	3:53	1 Can	Air	None	x			-		
	-14	IA9		7/13/2023	3:54	1 Can	Air	None	x					
	-15	IA10		7/13/2023	3:55	1 Can	Air	None	X					
	0	TA11		7/13/2023	3:57	1 Can	Air	None	х	(TTP)				1
	-17	IA12		7/13/2023	4:07	1 Can	Air	None	х				-	
	-19	TA13		7/13/2023	4:02	1 Can	Air	None	x					
	-19	TAIY		7/13/2023	12:50	1 Can	Air	None	х					
P	-20	IA15		7/13/2023	2:33	1 Can	Air	None	x					
AUTHORIZATION TO PE ERIC F SAMPLED BY RELINQUISHED BY NOGH Storman RELINQUISHED BY	ELASIKE	COMPANY COMPANY BANDZIVUG NO DATETIME 18:45 071/3/23 DATETIME	RECEIVED BY	DATE/TIME 7 //3 / 2.3 DATE/TIME / 12 / 2.3 DATE/TIME 3 / 2.3 DATE/TIME	4:19ps 18:47	СОММЕ	NTS							
RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME										
METHOD OF TR	ANSPORT (c	ircle one): Walk-In Fed	Ex UPS Courier ATLI Of	her	-									

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCI N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09

		Luce a Concess	10501 E. Oala Ave. Ovita 100			CH	AIN	OF C	USTO	DY R	ECORD			
AIL	IECH	INOLOGY	18501 E. Gale Ave., Suite 130 City of Industry, CA 91748	TUR	NAROU	ND TIME		1	LIVERA		PAGE:	3	OF	3
AAAA	Labora	ntories, Inc.	Ph: 626-964-4032	Standard		48 hours			EDD		Condition u	pon receip	pt:	1.1
JERGICIC			Fx: 626-964-5832	Same Day		72 hours						Sealed	Yes	No 🗖
Project No.:	SMSD-23	-11646		24 hours		96 hours						Intact	Yes	No 🗖
Project Name:	McKinley	Elementary School		Other:			_		Level 4			Chilled		deg C
Report To:	Eric Frask	ke			BIL	LING				A	NALYSIS F	REQUES	т	
Company:	NV5			P.O. No.:	SMSD-	23-1164	6	1						
Street:	3777 Long	g Beach Blvd, Annex Build	ding	Bill to:	NV5									
City/State/Zip:	Long Bea	ch, CA 90807		3777 Lor	g Beac	h Blvd,	Anne	x	-					
Phone& Fax:	562-544-3	3910		Long Bea	ach, CA	90807			SIM					
e-mail:	eric.frask	e@nv5.com							015 ene					
				щ.,,	ш	ER.	×	-A-	VOCs by TO15 + Napthalene					
LAB USE	ONLY	SAMPLE I	DENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA- TION	Cs I Vapt					
				°,	PM	89 8	2	PRE	> -	1				·
107 40	1-21	TAIL		7/13/2023	4:03	1 Can	Air	None	X					
	-22	IA17		7/13/2023	4:05	1 Can	Air	None	x	1.1				
	-23	IA18		7/13/2023	4:12	1 Can	Air	None	x	1				
	-24	FA19		7/13/2023	4:14	1 Can	Air	None	x					
V	-25	TAZO		7/13/2023	4:09	1 Can	Air	None	x			-		
P		41100		1110/2020		i Gali		None	^			\rightarrow		
						-	177.8	-				-		
				-		-	-	-	-			\rightarrow		
						-	1	_	-	1				-
					_	_						_		
							1	-						
	FRASIC	EER COMPANY	15	DATE/TIME 7/13/22	2	COMME	NTS							-
SAMPLED BY		COMPANY	115	DATE/TIME										
RELINQUISHED BY	0,10	18:4507(13/23	RECEIVED BY	13/23 C	-									
Noah Stevens RELINQUISHED BY		18:4307113/23 DATE/TIME	RECEIVED BY	DATE/TIME	r.4)									
RELINQUISHED BY			2			-								
KELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME										
METHOD OF TR	ANSPORT (c	circle one): Walk-In Fed	Ex UPS Courier ATLI Of	ther	_									

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCI N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09

IF.

		EP	A Method	1015 \$	IM						
P	071401-0	1	PO	71401-02	2	PO	71401-03	3	PO	71401-04	4
	OA1		11	OA2			OA3			OA4	
7/1	3/23 15:1	15	7/1	3/23 15:2	20	7/1	3/23 15:2	24	7/1	3/23 15:2	27
7/1	7/23 13:2	27	7/1	7/23 14:0	08	7/1	7/23 14:4	18			
230	717MS2.	A1	230	717MS2	A1	230	717MS2.	A1	7/13/23 15:27 7/17/23 16:40 230717MS2A1 VM 1.0 Result ug/m3 ug/m3 ug/m3 ug/m3 0.049 0 1.1 0.021 0.0072 J 0.013 0 0.088 0.026 1.0 0.056 0.031 J 0.0031 J 0.0033 0.035 0.0038 J 0.0031 J 0.0040 0 0.0031 J 0.040 0 0.0038 J 0.040 0 0.0038 J 0.040 0 0.010 0.049 0.0055 0 0.010 0.040 0.027 0 0.033 0.16 0.051 0.040 0.051 0.040 0.057 0 0.066 0.075 0.066 0.075 0.066 0.0		
	VM	1.00		VM			VM		-	VM	
	1.0		0	1.0			1.0			1.0	
Result	RL	MDL	Result	RL	MDL	Result	RL	MDL	Contraction and a second se	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	MDL
					-						ug/m3
											0.00070
	1-1-1-1-1							1			0.0055
								0.0060			0.0060
				1							0.0080
-				1							0.0013
	1										0.0023
											0.0025
1											0.0059
											0.0029
1											0.0076
		1.									0.0033
											0.0024
		1.0.0									0.0064
											0.0018
											0.016
											0.0033
						1.					0.0030
											0.0098
1											0.0071
1											0.0014
											0.0039
0.017 J	0.068										0.0022
ND	0.077	0.0017	ND								0.0030
0.12											0.0017
0.40	0,17	0.020			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Lange Arts 1	1000			0.013
0.16	0.087	0.021		0.087					-		0.020
0.048 J	0.085	0.021	0.054 J								0.021
ND	0.069	0.0061	ND	0.069	0.0061	ND					0.0061
0.14	0.052	0.010		0.052	0.010		0.052	0.010	1.1		0.0001
	7/1 7/1 7/1 230 Result ug/m3 2.0 1.0 ND 0.035 1.0 0.44 0.0030 0.29 0.0039 ND 0.11 0.0065 0.45 0.26 0.050 0.070 0.016 ND 0.52 ND 0.12 0.40 0.16 0.048	OA1 7/13/23 15:: 7/17/23 13:: 230717MS2 VM 1.0 Result ug/m3 RL ug/m3 2.0 0.049 1.0 0.021 ND 0.013 0.035 0.026 1.0 0.056 0.44 0.077 0.0030 J 0.020 0.29 0.035 0.0039 J 0.040 ND 0.040 ND 0.040 0.11 0.040 0.11 0.040 0.11 0.040 0.11 0.040 0.11 0.040 0.11 0.040 0.11 0.040 0.11 0.040 0.11 0.040 0.11 0.040 0.11 0.045 0.050 0.040 0.070 0.027 0.016 J 0.046 ND 0.067 0.55	P071401-01 OA1 7/13/23 15:15 7/17/23 13:27 230717MS2A1 VM UMD ug/m3 ug/m3 ug/m3 ug/m3 UMD 0.0049 0.0070 1.0 0.0035 0.0070 0.026 0.0030 0.035 0.0026 0.035 0.0023 0.035 0.0023 0.035 0.0025 0.035 0.0023 0.035 0.0023 0.035 0.0023 0.035 0.0023 0.035 0.0026 ND 0.040 0.0024 0.040 0.0035 0.0024 0.046 0.04	P071401-01 P0 OA1 7/13/23 15:15 7/1 7/17/23 13:27 7/1 230717MS2A1 230 VM 230 1.0 0 Result RL MDL ug/m3 ug/m3 ug/m3 2.0 0.049 0.00070 1.0 0.021 0.0055 0.89 ND 0.013 0.0060 ND 0.035 0.026 0.0080 0.052 1.0 0.056 0.0013 0.78 0.44 0.077 0.0023 0.36 0.030 J 0.020 0.0029 ND 0.29 0.035 0.0059 0.31 0.0039 J 0.040 0.0029 ND ND 0.040 0.0024 0.10 0.0055 0.0064 0.0074 J 0.45 0.063 0.016 0.32 0.050 0.040 0.0033 0.049	P071401-01 P071401-01 OA1 OA2 7/13/23 15:15 7/13/23 15:3 7/17/23 13:27 7/17/23 14:0 230717MS2A1 230717MS2 230717MS2A1 230717MS2 VM VM 1.0 1.0 Result RL MDL Result ug/m3 ug/m3 ug/m3 ug/m3 2.0 0.049 0.00070 1.6 0.049 1.0 0.021 0.055 0.89 0.021 ND 0.013 0.0060 ND 0.013 0.035 0.026 0.0080 0.052 0.026 1.0 0.056 0.0013 0.78 0.056 0.44 0.077 0.0023 ND 0.040 0.035 0.0059 0.31 0.035 0.0039 0.040 0.0076 ND 0.040 ND 0.040 0.0024 0.10 0.040 0.055 0.064 0.0074 0.	P071401-01 P071401-02 OA1 OA2 7/13/23 15:15 7/13/23 15:20 7/17/23 13:27 7/17/23 14:08 230717MS2A1 230717MS2A1 VM VM Ugm3 ug/m3 ug/m3 ug/m3 ug/m3 ug/m3 2.0 0.049 0.00070 1.6 0.049 0.00070 1.0 0.013 0.00070 1.6 0.049 0.00070 1.0 0.021 0.0055 0.89 0.021 0.0055 ND 0.013 0.0060 ND 0.013 0.0060 0.035 0.026 0.0080 0.052 0.026 0.0080 0.044 0.077 0.0023 0.36 0.077 0.0023 0.030 J 0.020 0.0025 ND 0.040 0.0029 ND 0.040 0.0029 ND 0.040 0.0020 0.035 0.0055 0.040 0.0024 0.040 0.0024 0.03	OA1 OA2 7/13/23 15:15 7/13/23 15:20 7/1 7/17/23 13:27 7/17/23 14:08 7/1 230717MS2A1 2300 7/1 230717MS2A1 230 7/1 10 VM 7/1 10 1.0 1.0 1.0 Result RL MDL Result RL MDL Result RL ug/m3 u	P071401-01 P071401-02 P071401-02 OAI OA2 OA3 7/13/23 15:15 7/13/23 15:20 7/13/23 15:15 7/17/23 13:27 7/17/23 14:08 7/17/23 14:2 230717MS2A1 230717MS2A1 230717MS2 230717MS2 VM VM VM VM 0.0 1.0 1.0 1.0 Result RL MDL Result RL 230717MS2 0.021 0.0049 0.00070 1.6 0.010 1.0 1.0 0.021 0.0055 0.89 0.021 0.0055 1.1 0.021 ND 0.013 0.0060 ND 0.013 0.0060 ND 0.013 0.026 0.035 0.026 0.0080 0.055 0.1 0.021 0.025 0.1 0.021 0.035 0.026 0.0013 0.13 0.035 0.026 0.0013 0.16 0.035 0.020 0.0025 ND 0.023 0.026	P071401-01 P071401-02 P071401-03 OA1 OA2 OA3 7/13/23 15:15 7/13/23 15:20 7/13/23 15:24 7/17/23 13:27 7/17/23 14:08 7/17/23 14:48 230717MS2A1 230717MS2A1 230717MS2A1 VM VM VM ug/m3 ug/	P071401-01 P071401-02 P071401-03 P0 OA1 OA2 OA3 OA3 7/13/23 15:15 7/13/23 15:20 7/13/23 15:24 7/1 7/17/23 13:27 7/17/23 14:08 7/17/23 14:48 7/1 230717/MS2A1 230717/MS2A1	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL

Reviewed/Approved By: mull our M **Operations Manager**

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc. -

P071401 SIM

Date 07-19-23

ſг

			EP.	A Method	TO15 S	IM	_					
Lab No.:	PO	71401-05	5	PO	71401-00	j	PO	71401-07		PO	71401-08	3
Client Sample I.D.:	· · · · · ·	IA1			1A2	_		IA3	. 1	L	A3 DUP	
Date/Time Sampled:	7/1	3/23 15:5	51	7/1	3/23 15:4	7	7/1	3/23 15:1	1	7/1	3/23 15:1	1
Date/Time Analyzed:	7/1	7/23 17:2	1	7/1	7/23 18:0	00	7/1	7/23 18:4	0	7/1	7/23 19:2	20
QC Batch No.:	230	717MS2/	41	230	717MS2	41	230	717MS2	A1	230	717MS2	41
Analyst Initials:		VM			VM			VM			VM	
Dilution Factor:		1.0		1	1.0		1	1.0			1.0	
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3									
Dichlorodifluoromethane (12)	2.1	0.049	0.00070	2.1	0.049	0.00070	2.1	0.049	0.00070	2.1	0.049	0.00070
Chloromethane	1.1	0.021	0.0055	1.3	0.021	0.0055	1.2	0.021	0.0055	1.1	0.021	0.0055
Vinyl Chloride	0.0075 J	0.013	0.0060	ND	0.013	0.0060	ND	0.013	0.0060	ND	0.013	0.0060
Chloroethane	0.11	0.026	0.0080	0.13	0.026	0.0080	0.11	0.026	0.0080	0.099	0.026	0.0080
Trichlorofluoromethane (11)	1.0	0.056	0.0013	1.1	0.056	0.0013	1.1	0.056	0.0013	1.0	0.056	0.0013
1,1,2-Cl 1,2,2-F ethane (113)	0.43	0.077	0.0023	0.45	0.077	0.0023	0.45	0.077	0.0023	0.44	0.077	0.0023
1,1-Dichloroethene	ND	0.020	0.0025									
Methylene Chloride	0.32	0.035	0.0059	0.31	0.035	0.0059	0.31	0.035	0.0059	0.31	0.035	0.0059
t-1,2-Dichloroethene	0.0038 J	0.040	0.0029	ND	0.040	0.0029	0.0041 J	0.040	0.0029	ND	0.040	0.0029
1,1-Dichloroethane	ND	0.040	0.0076									
c-1,2-Dichloroethene	ND	0.040	0.0033									
Chloroform	0.12	0.049	0.0024	0.10	0.049	0.0024	0.11	0.049	0.0024	0.12	0.049	0.0024
1,1,1-Trichloroethane	0.0085 J	0.055	0.0064	0.0089 J	0.055	0.0064	0.0079 J	0.055	0.0064	0.0072 J	0.055	0.0064
Carbon Tetrachloride	0.45	0.063	0.0018	0.47	0.063	0.0018	0.46	0.063	0.0018	0.46	0.063	0.0018
Benzene	0.29	0.16	0.016	0.30	0.16	0.016	0.32	0.16	0.016	0.31	0.16	0.016
1,2-Dichloroethane	0.097	0.040	0.0033	0.067	0.040	0.0033	0.073	0.040	0.0033	0.073	0.040	0.0033
Trichloroethene	0.067	0.027	0.0030	0.066	0.027	0.0030	0.090	0.027	0.0030	0.087	0.027	0.0030
1,2-Dichloropropane	0.021 J	0.046	0.0098	0.011 J	0.046	0.0098	0.013 J	0.046	0.0098	0.017 J	0.046	0.0098
Bromodichloromethane	0.012 J	0.067	0.0071	0.011 J	0.067	0.0071	ND	0.067	0.0071	0.0093 J	0.067	0.0071
Toluene	1.0	0.075	0.014	0.99	0.075	0.014	1.0	0.075	0.014	0.99	0.075	0.014
t-1,3-Dichloropropene	ND	0.045	0.0059									
1,1,2-Trichloroethane	ND	0.055	0.0022									
Tetrachloroethene	0.12	0.068	0.0036	0.100	0.068	0.0036	0.15	0.068	0.0036	0.15	0.068	0.0036
1,2-Dibromoethane	0.0030 J	0.077	0.0017	0.0045 J	0.077	0.0017	ND	0.077	0.0017	ND	0.077	0.0017
Ethylbenzene	0.20	0.087	0.013	0.19	0.087	0.013	0.19	0.087	0.013	0.20	0.087	0.013
p,&m-Xylene	0.63	0.17	0.020	0.62	0.17	0.020	0.65	0.17	0.020	0.64	0.17	0.020
o-Xylene	0.30	0.087	0.021	0.28	0.087	0.021	0.30	0.087	0.021	0.30	0.087	0.021
Styrene	0.18	0.085	0.021	0.18	0.085	0.021	0.24	0.085	0.021	0.16	0.085	0.021
1,1,2,2-Tetrachloroethane	ND	0.069	0.0061									
Naphthalene	0.33	0.052	0.010	0.36	0.052	0.010	0.36	0.052	0.010	0.35	0.052	0.010

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL

Reviewed/Approved By: MmmMu Oulo Operations Manager

The cover letter is an integral part of this analytical report

AITTECHNOLOGY Laboratories, Inc. .

P071401 SIM

Date 07-19-23

Page 6 of 14

P071401

			EP.	A Method	TO15 S	IM						
Lab No.:	PO	71401-09)	PO	71401-10)	PO	71401-11		P0	71401-12	2
Client Sample I.D.:		1A4			IA5			IA6	21		IA7	
Date/Time Sampled:	7/1	3/23 15:3	34	7/1	3/23 15:3	37	7/1	3/23 15:4	12	7/1	3/23 15:4	41
Date/Time Analyzed:	7/1	7/23 20:0	00	7/1	7/23 20:4	40	7/1	7/23 21:1	9	7/1	7/23 22:0	02
QC Batch No.:	230	717MS2	A1	230	717MS2	A1	230	717MS2	41	230	717MS2.	A1
Analyst Initials:		VM			VM			VM			VM	
Dilution Factor:		1.0			1.0			1.0			1.0	-
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3									
Dichlorodifluoromethane (12)	2.0	0.049	0.00070	1.9	0.049	0.00070	1.9	0.049	0.00070	2.0	0.049	0.00070
Chloromethane	1.2	0.021	0.0055	1.1	0.021	0.0055	1.1	0.021	0.0055	1.1	0.021	0.0055
Vinyl Chloride	ND	0.013	0.0060									
Chloroethane	0.050	0.026	0.0080	0.048	0.026	0.0080	0.088	0.026	0.0080	0.065	0.026	0.0080
Trichlorofluoromethane (11)	0.99	0.056	0.0013	0.96	0.056	0.0013	0.96	0.056	0.0013	0.98	0.056	0.0013
1,1,2-Cl 1,2,2-F ethane (113)	0.44	0.077	0.0023	0.43	0.077	0.0023	0.43	0.077	0.0023	0.43	0.077	0.0023
1,1-Dichloroethene	ND	0.020	0.0025	0.0025 J	0.020	0.0025	0.0029 J	0.020	0.0025	ND	0.020	0.0025
Methylene Chloride	0.42	0.035	0.0059	0.30	0.035	0.0059	0.29	0.035	0.0059	0.29	0.035	0.0059
t-1,2-Dichloroethene	0.0039 J	0.040	0.0029	0.0029 J	0.040	0.0029	0.0081 J	0.040	0.0029	ND	0.040	0.0029
1,1-Dichloroethane	ND	0.040	0.0076									
c-1,2-Dichloroethene	ND	0.040	0.0033	ND	0.040	0.0033	0.0039 J	0.040	0.0033	ND	0.040	0.0033
Chloroform	0.10	0.049	0.0024	0.18	0.049	0.0024	0.12	0.049	0.0024	0.11	0.049	0.0024
1,1,1-Trichloroethane	0.0069 J	0.055	0.0064	0.0070 J	0.055	0.0064	0.0093 J	0.055	0.0064	0.0074 J	0.055	0.0064
Carbon Tetrachloride	0.45	0.063	0.0018	0.44	0.063	0.0018	0.44	0.063	0.0018	0.44	0.063	0.0018
Benzene	0.23	0.16	0.016	0.28	0.16	0.016	0.56	0.16	0.016	0.29	0.16	0.016
1,2-Dichloroethane	0.048	0.040	0.0033	0.055	0.040	0.0033	0.29	0.040	0.0033	0.049	0.040	0.0033
Trichloroethene	0.030	0.027	0.0030	0.085	0.027	0.0030	0.041	0.027	0.0030	0.084	0.027	0.0030
1,2-Dichloropropane	0.014 J	0.046	0.0098	0.014 J	0.046	0.0098	0.062	0.046	0.0098	0.011 J	0.046	0.0098
Bromodichloromethane	0.0094 J	0.067	0.0071	0.10	0.067	0.0071	0.013 J	0.067	0.0071	0.014 J	0.067	0.0071
Toluene	0.69	0.075	0.014	0.74	0.075	0.014	1.6	0.075	0.014	0.59	0.075	0.014
t-1,3-Dichloropropene	ND	0.045	0.0059	ND	0.045	0.0059	0.019 J	0.045	0.0059	0.0059 J	0.045	0.0059
1,1,2-Trichloroethane	ND	0.055	0.0022									
Tetrachloroethene	0.018 J	0.068	0.0036	0.024 J	0.068	0.0036	0.031 J	0.068	0.0036	0.018 J	0.068	0.0036
1,2-Dibromoethane	0.0048 J	0.077	0.0017	0.0023 J	0.077	0.0017	0.016 J	0.077	0.0017	ND	0.077	0.0017
Ethylbenzene	0.23	0.087	0.013	0.30	0.087	0.013	0.25	0.087	0.013	0.17	0.087	0.013
p,&m-Xylene	0.76	0.17	0.020	0.60	0.17	0.020	0.60	0.17	0.020	0.57	0.17	0.020
o-Xylene	0.28	0.087	0.021	0.22	0.087	0.021	0.25	0.087	0.021	0.21	0.087	0.021
Styrene	0.17	0.085	0.021	0.38	0.085	0.021	0.48	0.085	0.021	0.066 J	0.085	0.021
1,1,2,2-Tetrachloroethane	ND	0.069	0.0061									
Naphthalene	0.15	0.052	0.010	0.23	0.052	0.010	0.39	0.052	0.010	0.27	0.052	0.010

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

 $\mathbf{J}=\mathbf{T}\mathbf{r}\mathbf{a}\mathbf{c}\mathbf{e}$ amount. Analyte concentration between RL and MDL

Reviewed/Approved By: M **Operations** Manager

The cover leaver is an integral part of this analytical report

Date 07-19-23

AirTECHNOLOGY Laboratories, Inc. 18501 E. Gale Avenue, Suite 130 City of Industry, CA 91748 Ph: (626) 964-4032 Fx: (626) 964-5832 P071401 SIM

F

			EP	A Method	TO15 S	IM				-	_	-
Lab No.:	PO	071401-13	3	PO	71401-14	4	PO	71401-15	5	PO	71401-10	5
Client Sample I.D.:	-	1A8		1	1A9			IA10		1.1	IA11	
Date/Time Sampled:	7/1	3/23 15:5	53	7/1	3/23 15:5	54	7/1	3/23 15:5	55	7/1	3/23 15:5	57
Date/Time Analyzed:	7/1	7/23 22:4	13	7/1	7/23 23:2	24	7/1	8/23 0:0	3	7/1	8/23 0:4	6
QC Batch No.:	230	717MS2	A1	230	717MS2	A1	230	717MS2	41	230	717MS2	A1
Analyst Initials:	-	VM			VM		1000	VM			VM	
Dilution Factor:	1-	1.0	_		1.0			1.0			1.0	
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3									
Dichlorodifluoromethane (12)	2.0	0.049	0.00070	2.0	0.049	0.00070	2.0	0.049	0.00070	2.0	0.049	0.00070
Chloromethane	1.00	0.021	0.0055	1.2	0.021	0.0055	1.1	0.021	0.0055	1.1	0.021	0.0055
Vinyl Chloride	ND	0.013	0.0060									
Chloroethane	0.041	0.026	0.0080	0.052	0.026	0.0080	0.042	0.026	0.0080	0.043	0.026	0.0080
Trichlorofluoromethane (11)	1.0	0.056	0.0013	0.98	0.056	0.0013	1.00	0.056	0.0013	0.99	0.056	0.0013
1,1,2-Cl 1,2,2-F ethane (113)	0.44	0.077	0.0023	0.44	0.077	0.0023	0.45	0.077	0.0023	0.44	0.077	0.0023
1,1-Dichloroethene	ND	0.020	0.0025	ND	0.020	0.0025	0.0046 J	0.020	0.0025	0.0032 J	0.020	0.0025
Methylene Chloride	0.28	0.035	0.0059	0.34	0.035	0.0059	0.36	0.035	0.0059	0.35	0.035	0.0059
t-1,2-Dichloroethene	0.0037 J	0.040	0.0029	ND	0.040	0.0029	0.0045 J	0.040	0.0029	0.0031 J	0.040	0.0029
1,1-Dichloroethane	ND	0.040	0.0076									
c-1,2-Dichloroethene	ND	0.040	0.0033									
Chloroform	0.11	0.049	0.0024	0.18	0.049	0.0024	0.17	0.049	0.0024	0.11	0.049	0.0024
1,1,1-Trichloroethane	0.0085 J	0.055	0.0064	0.076	0.055	0.0064	0.48	0.055	0.0064	0.21	0.055	0.0064
Carbon Tetrachloride	0.46	0.063	0.0018	0.45	0.063	0.0018	0.45	0.063	0.0018	0.45	0.063	0.0018
Benzene	0.27	0.16	0.016	0.27	0.16	0.016	0.29	0.16	0.016	0.32	0.16	0.016
1,2-Dichloroethane	0.076	0.040	0.0033	0.066	0.040	0.0033	0.054	0.040	0.0033	0.050	0.040	0.0033
Trichloroethene	0.075	0.027	0.0030	0.023 J	0.027	0.0030	0.043	0.027	0.0030	0.17	0.027	0.0030
1,2-Dichloropropane	0.014 J	0.046	0.0098	0.020 J	0.046	0.0098	0.019 J	0.046	0.0098	0.014 J	0.046	0.0098
Bromodichloromethane	0.0073 J	0.067	0.0071	0.0080 J	0.067	0.0071	ND	0.067	0.0071	0.0081 J	0.067	0.0071
Toluene	0.60	0.075	0.014	2.1	0.075	0.014	1.8	0.075	0.014	0.94	0.075	0.014
t-1,3-Dichloropropene	ND	0.045	0.0059									
1,1,2-Trichloroethane	ND	0.055	0.0022									
Tetrachloroethene	0.019 J	0.068	0.0036	0.022 J	0.068	0.0036	0.020 J	0.068	0.0036	0.023 J	0.068	0.0036
1,2-Dibromoethane	ND	0.077	0.0017	ND	0.077	0.0017	0.0050 J	0.077	0.0017	ND	0.077	0.0017
Ethylbenzene	0.16	0.087	0.013	0.26	0.087	0.013	0.32	0.087	0.013	0.19	0.087	0.013
p,&m-Xylene	0.53	0.17	0.020	0.78	0.17	0.020	1.0	0.17	0.020	0.62	0.17	0.020
o-Xylene	0.23	0.087	0.021	0.31	0.087	0.021	0.38	0.087	0.021	0.22	0.087	0.021
Styrene	0.23	0.085	0.021	0.37	0.085	0.021	0.30	0.085	0.021	0.16	0.085	0.021
1,1,2,2-Tetrachloroethane	ND	0,069	0.0061	ND	0.069	0.0061	ND	0.069	0.0061	ND	0.069	0.0061
Naphthalene	0.19	0.052	0.010	0.53	0.052	0.010	0.37	0.052	0.010	0.24	0.052	0.010

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL

Reviewed/Approved By: Munula Theo sur **Operations Manager**

The cover leaser is an integral part of this analytical report

AITTECHNOLOGY Laboratories, Inc. -

Date 07-19-23

P071401 SIM

Page 8 of 14 P071401

			EP	A Method	TO15 S	SIM						
Lab No.:	PO)71401-1'	7	PO	71401-1	8	PO	71401-19)	PO	071401-2	0
Client Sample I.D.:		IA12			IA13			IA14			IA15	1
Date/Time Sampled:	7/1	3/23 16:0)7	7/1	3/23 16:0	02	7/1	3/23 12:5	50	7/1	3/23 14:3	33
Date/Time Analyzed:	7/	18/23 1:2	6	7/1	8/23 2:0	8	-	18/23 2:5			18/23 3:2	
QC Batch No.:	230	717MS2	A1	230	717MS2	A1		717MS2			717MS2	
Analyst Initials:		VM		1100	VM			VM			VM	
Dilution Factor:		1.0	-	· · · · · · · · · · · · · · · · · · ·	1.0		1	1.0			1.0	
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3
Dichlorodifluoromethane (12)	2.0	0.049	0.00070	1.9	0.049	0.00070	2.0	0.049	0.00070	2.0	0.049	0.00070
Chloromethane	1.1	0.021	0.0055	1.0	0.021	0.0055	1.0	0.021	0.0055	1.1	0.021	0.0055
Vinyl Chloride	ND	0.013	0.0060	ND	0.013	0.0060	ND	0.013	0.0060	ND	0.013	0.0060
Chloroethane	0.10	0.026	0.0080	0.067	0.026	0.0080	0.052	0.026	0.0080	0.074	0.026	0.0080
Trichlorofluoromethane (11)	0.99	0.056	0.0013	0.97	0.056	0.0013	0.99	0.056	0.0013	1.0	0.056	0.0013
1,1,2-Cl 1,2,2-F ethane (113)	0.44	0.077	0.0023	0.43	0.077	0.0023	0.43	0.077	0.0023	0.44	0.077	0.0023
1,1-Dichloroethene	0.0029 J	0.020	0.0025	ND	0.020	0.0025	ND	0.020	0.0025	ND	0.020	0.0025
Methylene Chloride	0.32	0.035	0.0059	0.28	0.035	0.0059	0.33	0.035	0.0059	0.31	0.035	0.0059
t-1,2-Dichloroethene	ND	0.040	0.0029	0.0036 J	0.040	0.0029	0.0056 J	0.040	0.0029	0.0041 J	0.040	0.0029
1,1-Dichloroethane	ND	0.040	0.0076	ND	0.040	0.0076	ND	0.040	0.0076	ND	0.040	0.0076
c-1,2-Dichloroethene	ND	0.040	0.0033	ND	0.040	0.0033	ND	0.040	0.0033	ND	0.040	0.0033
Chloroform	0.12	0.049	0.0024	0.11	0.049	0.0024	0.15	0.049	0.0024	0.14	0.049	0.0024
1,1,1-Trichloroethane	0.025 J	0.055	0.0064	0.0075 J	0.055	0.0064	0.064	0.055	0.0064	0.067	0.055	0.0064
Carbon Tetrachloride	0.45	0.063	0.0018	0.44	0.063	0.0018	0.44	0.063	0.0018	0.45	0.063	0.0018
Benzene	0.29	0.16	0.016	0.30	0.16	0.016	1.2	0.16	0.016	0.33	0.16	0.016
1,2-Dichloroethane	0.078	0,040	0.0033	0.047	0.040	0.0033	0.067	0.040	0.0033	0.064	0.040	0.0033
Trichloroethene	0.078	0.027	0.0030	0.059	0.027	0.0030	0.071	0.027	0.0030	0.090	0.027	0.0030
1,2-Dichloropropane	0.016 J	0.046	0.0098	ND	0.046	0.0098	0.018 J	0.046	0.0098	0.038 J	0.046	0.0098
Bromodichloromethane	ND	0.067	0.0071	0.0094 J	0.067	0.0071	0.015 J	0.067	0.0071	ND	0.067	0.0071
Toluene	0.86	0.075	0.014	0.70	0.075	0.014	3.0	0.075	0.014	0.91	0.075	0.014
t-1,3-Dichloropropene	ND	0.045	0.0059	ND	0.045	0.0059	ND	0.045	0.0059	ND	0.045	0.0059
1,1,2-Trichloroethane	ND	0.055	0.0022	ND	0.055	0.0022	ND	0.055	0.0022	ND	0.055	0.0022
Tetrachloroethene	0.028 J	0.068	0.0036	0.055 J	0.068	0.0036	0.035 J	0.068	0.0036	0.034 J	0.068	0.0036
1,2-Dibromoethane	0.0046 J	0.077	0.0017	ND	0.077	0.0017	ND	0.077	0.0017	ND	0.077	0.0017
Ethylbenzene	0.21	0.087	0.013	0.14	0.087	0.013	0.35	0.087	0.013	0.33	0.087	0.013
p,&m-Xylene	0.55	0.17	0.020	0.44	0.17	0.020	1.1	0.17	0.020	1.0	0.17	0.020
o-Xylene	0.21	0.087	0.021	0.16	0.087	0.021	0.38	0.087	0.021	0.37	0.087	0.021
Styrene	0.16	0.085	0.021	0.20	0.085	0.021	0.26	0.085	0.021	0.16	0.085	0.021
1,1,2,2-Tetrachloroethane	ND	0.069	0.0061	ND	0.069	0.0061	ND	0.069	0.0061	ND	0.069	0.0061
Naphthalene	0.17	0.052	0.010	0.24	0.052	0.010	0.28	0.052	0.010	0.21	0.052	0.010

EDA Mathed TOIL CIN

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL

Reviewed/Approved By: Na **Operations Manager**

The cover lever is an integral part of this analytical report

AITTECHNOLOGY Laboratories, Inc. -

P071401 SIM

Date 07-19-23

Page 9 of 14 P071401

			EP.	A Method	1015 5	IM		_	_	_		
Lab No.:	PO	71401-2	1	PO	71401-22	2	PO	71401-23	3	PO	71401-24	
Client Sample I.D.:		IA16	1		IA17			IA18			IA19	
Date/Time Sampled:	7/1	3/23 16:0	03	7/1	3/23 16:0)5	7/1	3/23 16:1	12	7/1	3/23 16:1	4
Date/Time Analyzed:	7/1	8/23 16:1	17	7/1	8/23 16:5	58	7/1	8/23 17:5	50		8/23 18:3	
QC Batch No.:	230	718MS2	A1	230	718MS2	A1	230	718MS2	A1	230	718MS2.	A1
Analyst Initials:	1	VM			VM			VM			VM	
Dilution Factor:		1.0			1.0			1.0	-		1.0	
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3									
Dichlorodifluoromethane (12)	2.0	0.049	0.00070	2.0	0.049	0.00070	2.0	0.049	0.00070	2.0	0.049	0.00070
Chloromethane	1.1	0.021	0.0055	1.1	0.021	0.0055	1.0	0.021	0.0055	1.2	0.021	0.0055
Vinyl Chloride	ND	0.013	0.0060									
Chloroethane	0.063	0.026	0.0080	0.068	0.026	0.0080	0.059	0.026	0.0080	0.078	0.026	0.0080
Trichlorofluoromethane (11)	1.00	0.056	0.0013	1.0	0.056	0.0013	1.0	0.056	0.0013	0.98	0.056	0.0013
1,1,2-Cl 1,2,2-F ethane (113)	0.44	0.077	0.0023	0.44	0.077	0.0023	0.44	0.077	0.0023	0.43	0.077	0.0023
1,1-Dichloroethene	ND	0.020	0.0025									
Methylene Chloride	0.28	0.035	0.0059	0.30	0.035	0.0059	0.29	0.035	0.0059	0.31	0.035	0.0059
t-1,2-Dichloroethene	0.0047 J	0.040	0.0029	ND	0.040	0.0029	ND	0.040	0.0029	0.0029 J	0.040	0.0029
1,1-Dichloroethane	ND	0.040	0.0076									
c-1,2-Dichloroethene	ND	0.040	0.0033									
Chloroform	0.10	0.049	0.0024	0.21	0.049	0.0024	0.12	0.049	0.0024	0.11	0.049	0.0024
1,1,1-Trichloroethane	0.022 J	0.055	0.0064	0.015 J	0.055	0.0064	0.0075 J	0.055	0.0064	0.057	0.055	0.0064
Carbon Tetrachloride	0.45	0.063	0.0018	0.44	0.063	0.0018	0.45	0.063	0.0018	0.45	0.063	0.0018
Benzene	0.29	0.16	0.016	0.29	0.16	0.016	0.28	0.16	0.016	0.31	0.16	0.016
1,2-Dichloroethane	0.046	0.040	0.0033	0.063	0.040	0.0033	0.065	0.040	0.0033	0.055	0.040	0.0033
Trichloroethene	0.069	0.027	0.0030	0.059	0.027	0.0030	0.048	0.027	0.0030	0.095	0.027	0.0030
1,2-Dichloropropane	0.015 J	0.046	0.0098	0.021 J	0.046	0.0098	0.013 J	0.046	0.0098	0.012 J	0.046	0.0098
Bromodichloromethane	0.011 J	0.067	0.0071	ND	0.067	0.0071	0.011 J	0.067	0.0071	0.023 J	0.067	0.0071
Toluene	0.60	0.075	0.014	0.87	0.075	0.014	1.5	0.075	0.014	0.79	0.075	0.014
t-1,3-Dichloropropene	ND	0.045	0.0059	ND	0.045	0.0059	ND	0.045	0.0059	0.077	0.045	0.0059
1,1,2-Trichloroethane	ND	0.055	0.0022									
Tetrachloroethene	0.017 J	0.068	0.0036	0.019 J	0.068	0.0036	0.018 J	0.068	0.0036	0.021 J	0.068	0.0036
1,2-Dibromoethane	ND	0.077	0.0017	ND	0.077	0.0017	0.0020 J	0.077	0.0017	ND	0.077	0.0017
Ethylbenzene	0.14	0.087	0.013	2.0	0.087	0.013	0.24	0.087	0.013	0.21	0.087	0.013
p,&m-Xylene	0.44	0.17	0.020	7.7	0.17	0.020	0.83	0.17	0.020	0.58	0.17	0.020
o-Xylene	0.16	0.087	0.021	1.9	0.087	0.021	0.26	0.087	0.021	0.25	0.087	0.021
Styrene	0.098	0.085	0.021	0.44	0.085	0.021	0.21	0.085	0.021	0.31	0.085	0.021
1,1,2,2-Tetrachloroethane	ND	0.069	0.0061	ND	.0.069	0.0061	ND	0.069	0.0061	ND	0.069	0.0061
Naphthalene	0.24	0.052	0.010	0.20	0.052	0.010	0.16	0.052	0.010	0.22	0.052	0.010

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL

Reviewed/Approved By: Mumba oulor **Operations Manager**

The cover le r is an integral part of this analytical report

Date 07-19-23

AITTECHNOLOGY Laboratories, Inc. -

			EP.	Method TO15 S	SIM					
Lab No.:	PO	71401-25	5							
Client Sample I.D.:		1A20								
Date/Time Sampled:	7/1	3/23 16:0)9							
Date/Time Analyzed:	7/1	8/23 19:1	11							
QC Batch No.:	230	718MS2	A1							
Analyst Initials:		VM						-		
Dilution Factor:		1.0				-				
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3							
Dichlorodifluoromethane (12)	2.0	0.049	0.00070		1					
Chloromethane	1.1	0.021	0.0055							
Vinyl Chloride	ND	0.013	0.0060							
Chloroethane	ND	0.026	0.0080							
Trichlorofluoromethane (11)	1.0	0.056	0.0013				1			
1,1,2-Cl 1,2,2-F ethane (113)	0.44	0.077	0.0023							
1,1-Dichloroethene	ND	0.020	0.0025	fth	1 - 2					
Methylene Chloride	0.28	0.035	0.0059				1			
t-1,2-Dichloroethene	ND	0.040	0.0029	100 54 122						1000
1,1-Dichloroethane	ND	0.040	0.0076							
c-1,2-Dichloroethene	ND	0.040	0.0033	A			1.1			1.1
Chloroform	0.095	0.049	0.0024							· · · · ·
1,1,1-Trichloroethane	0.0066 J	0.055	0.0064	1.						
Carbon Tetrachloride	0.45	0.063	0.0018				1	-		
Benzene	0.26	0.16	0.016							
1,2-Dichloroethane	0.044	0.040	0.0033							
Trichloroethene	0.047	0.027	0.0030							
1,2-Dichloropropane	ND	0.046	0.0098							
Bromodichloromethane	0.0099 J	0.067	0.0071	1	1					
Toluene	0.50	0.075	0.014				1.2.2			-
t-1,3-Dichloropropene	ND	0.045	0.0059							
1,1,2-Trichloroethane	ND	0.055	0.0022							
Tetrachloroethene	0.028 J	0.068	0.0036							
1,2-Dibromoethane	ND	0.077	0.0017							
Ethylbenzene	0.12	0.087	0.013				1.20		111	
p,&m-Xylene	0.39	0.17	0.020							
o-Xylene	0.16	0.087	0.021				1			
Styrene	0.054 J	0.085	0.021							
1,1,2,2-Tetrachloroethane	ND	0.069	0.0061							
Naphthalene	0.12	0.052	0.010							

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL

Reviewed/Approved By: Munka yu **Operations Manager**

The cover lever is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc. -

Date 07-19-23

			EP.	A Method	TO15 S	IM			
Lab No.:	METH	IOD BL.	ANK	METH	HOD BL	ANK			
Client Sample I.D.:					÷				
Date/Time Sampled:		-		1					
Date/Time Analyzed:	7/1	7/23 12:4	15	7/1	8/23 11:3	39			
QC Batch No.:	230	717MS2	A1	230	718MS2.	A1			
Analyst Initials:	1	VM			VM	-			
Dilution Factor:	1	1.0			1.0	19			
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	Result ug/m3	RL ug/m3	MDL ug/m3	2112		11.7
Dichlorodifluoromethane (12)	0.0079 J	0.049	0.00070	0.0077 J	0.049	0.00070			1 2 1
Chloromethane	0.016 J	0.021	0.0055	0.017 J	0.021	0.0055			
Vinyl Chloride	ND	0.013	0.0060	ND	0.013	0.0060			
Chloroethane	ND	0.026	0.0080	ND	0.026	0.0080		1 2 2	1/20
Trichlorofluoromethane (11)	0.0047 J	0.056	0.0013	0.0045 J	0.056	0.0013			
1,1,2-Cl 1,2,2-F ethane (113)	ND	0.077	0.0023	ND	0.077	0.0023			1111
1,1-Dichloroethene	ND	0.020	0.0025	ND	0.020	0.0025		1	1
Methylene Chloride	0.018 J	0.035	0.0059	0.016 J	0.035	0.0059			-
t-1,2-Dichloroethene	ND	0.040	0.0029	ND	0.040	0.0029			1.1
1,1-Dichloroethane	ND	0.040	0.0076	ND	0.040	0.0076		1.000	11.120
c-1,2-Dichloroethene	ND	0.040	0.0033	ND	0.040	0.0033		1200	
Chloroform	ND	0.049	0.0024	ND	0.049	0.0024			
1,1,1-Trichloroethane	ND	0.055	0.0064	ND	0.055	0.0064			
Carbon Tetrachloride	ND	0.063	0.0018	ND	0.063	0.0018			
Benzene	0.028 J	0.16	0.016	0.029 J	0.16	0.016			
1,2-Dichloroethane	ND	0.040	0.0033	ND	0.040	0.0033		1 1	1.0
Trichloroethene	ND	0.027	0.0030	ND	0.027	0.0030			 A 17 19
1,2-Dichloropropane	ND	0.046	0.0098	ND	0.046	0.0098			-
Bromodichloromethane	ND	0.067	0.0071	ND	0.067	0.0071			
Toluene	0.014 J	0.075	0.014	0.014 J	0.075	0.014	1 - C -		
t-1,3-Dichloropropene	ND	0.045	0.0059	ND	0.045	0.0059			12.1.1.1
1,1,2-Trichloroethane	ND	0.055	0.0022	ND	0.055	0.0022		1	12.2.7
Tetrachloroethene	ND	0.068	0.0036	ND	0.068	0.0036			
1,2-Dibromoethane	ND	0.077	0.0017	ND	0.077	0.0017		1	 4
Ethylbenzene	ND	0.087	0.013	ND	0.087	0.013			
p,&m-Xylene	ND	0.17	0.020	ND	0.17	0.020			
o-Xylene	ND	0.087	0.021	ND	0.087	0.021			
Styrene	ND	0.085	0.021	ND	0.085	0.021		1	
1,1,2,2-Tetrachloroethane	ND	0.069	0.0061	ND	0.069	0.0061		1	
Naphthalene	0.011 J	0.052	0.010	0.012 J	0.052	0.010		1.	

MDL = Method Detection Limit

ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL

Reviewed/Approved By: Ann **Operations Manager**

The cover le er is an integral part of this analytical report

AITTECHNOLOGY Laboratories, Inc. -

18501 E. Gale Avenue, Suite 130 • City of Industry, CA 91748 • Ph: (626) 964-4032 • Fx: (626) 964-5832

Date 07-19-23

		LABO			od TO15 S ROL SAM	SIM PLE SUM	MARY					
Lab No.:	MET	HOD BL	ANK	2	L	CS	L	CSD	T	T		
Date/Time Analyzed:	7/1	7/23 12:4	5		7/17/2	3 10:51	7/17/	23 11:28	1	-		
Analyst Initials:		VM			1	'M		VM				
Dilution Factor:		1.0				.0	1.000	1.0				
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	SPIKE AMT. ug/m3	Result ug/m3	% Rec.	Result ug/m3	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Vinyl Chloride	ND	0.013	0.0021	1.28	1.39	109	1.41	110	1.2	70	130	30
1,1-Dichloroethene	ND	0.020	0.0024	1.98	1.92	97	1.91	96	0.7	70	130	30
1,1,1-Trichloroethane	ND	0.055	0.0053	2.73	3.07	112	3.05	112	0.6	70	130	30
Benzene	0.028 J	0.16	0.0083	1.60	1.44	90	1.44	90	0.3	70	130	30
Trichloroethene	ND	0.054	0.0026	2.69	2.59	97	2.54	94	2.3	70	130	30
Tetrachloroethene	ND	0.068	0.013	3,39	3.01	89	3.03	89	0.8	70	130	30

MDL = Method Detection Limit ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL

Reviewed/Approved By:

Date:

The cover letter is an integral part of this analytical report

		LABO			nod TO15 S ROL SAM	SIM IPLE SUMI	MARY					
Lab No.:	MET	IOD BL	ANK		L	CS	L	CSD	T	T		
Date/Time Analyzed:	7/1	8/23 11:3	9		7/18/	23 5:15	7/18	23 5:51				
Analyst Initials:		VM			1	'M		VM				
Dilution Factor:		1.0	-		1	.0	12 22 10	1.0		1		
ANALYTE	Result ug/m3	RL ug/m3	MDL ug/m3	SPIKE AMT, ug/m3	Result ug/m3	% Rec.	Result ug/m3	% Rec.	RPD	Low %Rec	High %Rec	Max. RPD
Vinyl Chloride	ND	0.013	0.0021	1.28	1.34	105	1.34	105	0.3	70	130	30
1,1-Dichloroethene	ND	0.020	0.0024	1.98	1.89	95	1.91	96	1.3	70	130	30
1,1,1-Trichloroethane	ND	0.055	0.0053	2.73	2.88	106	2.92	107	1.3	70	130	30
Benzene	0.029 J	0.16	0.0083	1.60	1.43	90	1.45	91	1.1	70	130	30
Trichloroethene	ND	0.054	0.0026	2.69	2.56	95	2.56	95	0.2	70	130	30
Tetrachloroethene	ND	0.068	0.013	3.39	3.07	90	3.10	91	1.0	70	130	30

MDL = Method Detection Limit ND= Not Detected (below MDL)

RL = Reporting Limit

J = Trace amount. Analyte concentration between RL and MDL

Reviewed/Approved By:

Date:

The cover letter is an integral part of this analytical report

APPENDIX D

Indoor Air Quality Assessment

Technical Memorandum



Date: August 3, 2023

To: Mr. Eric Fraske Senior Engineer III NV5 3777 Long Beach Boulevard, Annex Building Long Beach, California 90807

Subject: Indoor Air Quality Assessment McKinley Elementary School Santa Monica, California

At the request of NV5, Enviro-Tox Services Inc. (Enviro-Tox) conducted an Indoor Air Quality Assessment for the McKinley Elementary School located at 2401 Santa Monica Boulevard in Santa Monica, California (the Site).

Background

An environmental investigation conducted at the Site by NV5 (2023) revealed the presence of volatile organic compounds (VOCs) in soil gas under the school site. The most likely source of the VOCs identified in soil gas appears to be an unknown off-site source located to the northeast of the Site. The soil gas analytical data collected by NV5 (2023) are summarized in Table 1.

Following the discovery of VOCs in soil gas, Enviro-Tox (2023) conducted a Vapor Intrusion Risk Evaluation (VIRE) for the Site. Vapor intrusion occurs when VOCs from contaminated soil gas migrate upwards toward the ground surface and into overlying buildings through gaps and cracks in foundation slabs. The objective of the VIRE was to assess whether the presence of VOCs detected in soil gas under the Site could pose a potential health risk or hazard to onsite receptors. Screening-level emission estimation methods were used to predict potential indoor and outdoor air chemical concentrations that may result from the flux of chemical vapors potentially released from soil gas sources detected under the Site. The estimated flux and indoor or outdoor air concentrations were then used to evaluate potential health risks that may result from exposures that could occur at the Site. Results of the VIRE indicated that the concentrations of benzene, ethylbenzene, naphthalene, tetrachloroethene (PCE), and trichloroethene (TCE) exceeded screening risk levels considered acceptable by federal and/or state regulatory agencies and therefore could pose a health risk to onsite receptors if, in fact, vapor intrusion is occurring at the Site.

In an effort to assess whether VOCs could be impacting indoor air, the Santa Monica Unified School District (SMUSD) requested the collection and analysis of indoor and outdoor air samples. In response to SMUSD's request, NV5 collected indoor and outdoor air samples at the Site on July 13, 2023. Indoor and outdoor air quality analytical results are presented in Table 2.

It is not surprising to find VOCs in indoor and outdoor air in urban environments (Cal-EPA, 2023). Indoor air contamination resulting from consumer products, chemical usage, building materials, and outdoor sources are commonly referred to as "background" when assessing the potential for intrusion

Technical Memorandum Indoor Air Quality Assessment August 3, 2023

of subsurface contaminant vapors into the indoor air of overlying buildings. Any indoor air sample collected for site-specific assessment of subsurface vapor intrusion is likely to detect chemicals from these other sources. In many cases, the compounds detected in indoor air may be the same as those present in soil gas that may enter the building through subsurface vapor intrusion. The presence of indoor and outdoor sources of VOCs can often make it challenging to assess the contribution of vapor intrusion to indoor air concentrations because it is often difficult to distinguish background from subsurface contaminant contributions.

The primary objective of this indoor air quality assessment is to determine whether subsurface VOCs are entering the indoor environment. According to the new Cal-EPA (2023) vapor intrusion guidance, indoor air sampling results should be interpreted considering multiple Lines of Evidence (LOEs). At a minimum, the vapor intrusion investigation should consider the following four LOEs related to soil gas and indoor air analytical results:

- 1. Selection of Chemicals of Potential Concern
- 2. Comparison of Constituent Ratios
- 3. Attenuation Factor Comparison
- 4. Comparison of Indoor and Outdoor Air Quality Results

The sections below describe the process followed to evaluate whether vapor intrusion is occurring at the Site, by assessing VOCs that could be attributed to indoor sources (such as vapor intrusion) from those attributed to "background" sources.

Vapor Intrusion Evaluation Using Multiple Lines of Evidence

Selection of Chemicals of Potential Concern

The Cal-EPA (2023) guidance specifically states that only the VOCs detected in soil gas should be considered to be chemicals of potential concern (COPCs) when evaluating vapor intrusion. The "risk drivers" identified in soil gas at the Site include benzene, ethylbenzene, naphthalene, PCE and TCE (Enviro-Tox, 2023). Following Cal-EPA (2023) guidance, only the five "risk drivers" are used as indicator chemicals to assess the potential vapor intrusion into onsite buildings.

Comparison of Constituent Ratios

Evaluating the ratio between concentrations of different chemicals in soil gas and indoor air may help to confirm that indoor air impacts are due to vapor intrusion. The relative ratios of VOC concentrations for many indoor and outdoor sources will be distinct from subsurface-derived VOC ratios. If the ratios of constituents in the indoor air are similar to the ratios observed in soil gas, it can be concluded that the two are linked and that confounding sources are not likely present (Cal-EPA, 2023).

The soil gas concentrations for the five "risk drivers" detected in soil gas are summarized in Table 3. The indoor air concentrations for the chlorinated "risk drivers" are presented in Table 4. The indoor air concentrations for the petroleum-derived "risk drivers" are presented in Table 5. For the chlorinated "risk drivers," PCE made up 100% of the chlorinated VOCs detected in soil gas (Table 3). However, in indoor air, PCE is only 35% of the PCE and TCE combination (Table 4). For petroleum-

Technical Memorandum Indoor Air Quality Assessment August 3, 2023

derived "risk drivers," on average, the relative composition in soil gas was 62% ethylbenzene, 22% benzene, and 16% naphthalene (Table 3). However, in indoor air, the relative composition of the three VOCs was essentially distributed evenly, with 30% for each (Table 5). Since the data indicate that the chemical ratios observed in soil gas and indoor air are different, it can be concluded that there is likely no link between VOCs in soil gas and those found in indoor air.

Attenuation Factor Comparison

Vapor intrusion typically is driven by advection (Cal-EPA, 2023). Therefore, VOCs move at approximately the same rate from beneath the building into indoor air. Under these conditions, chemical-specific attenuation factors derived from indoor air and subsurface sampling data should be similar among the soil gas VOCs. If a chemical has a much larger attenuation factor than the other VOCs, it may indicate the presence of "background" sources of contamination.

Attenuation factors are estimated using the following equation:

$$AF = \frac{C_{indoor}}{C_{soil\,gas}}$$

Where:

The chemical-specific attenuation factors estimated for the Site are presented in Table 6. The estimated AFs range from 0.25 for ethylbenzene to 0.000098 for TCE (Table 6). Since the data indicate that the chemical-specific AFs are not similar for the "risk drivers," it can be concluded that there is likely no link between VOCs in soil gas and those found in indoor air.

Comparison of Indoor and Outdoor Air Quality Results

Outdoor air sampling results are used to evaluate whether detections in indoor air samples could be the result of VOCs present in ambient air. In general, vapor intrusion is not identified as the likely source of a chemical in indoor air unless indoor air VOC concentrations are greater than those found in outdoor ambient air samples (Cal-EPA, 2023).

The comparison of Indoor and Outdoor Air Quality Results was conducted using the Wilcoxon-Mann-Whitney statistical test (WMW; Singh and Maichele, 2015). The WMW test is a nonparametric test used for determining whether a difference exists between the Site and the background population distributions. The WMW test is used to assess whether or not measurements from one population consistently tend to be larger (or smaller) than those from the other population based upon the assumption that the dispersion of the two distributions are roughly the same. This test determines which distribution is higher by comparing the relative ranks of the two data sets when the data from both sources are sorted into a single list. It is assumed that any difference between the background and Site concentration distributions is due to a shift in location (mean, median) of the Site concentrations to higher values (due to the presence of contamination in addition to the background).

The WMW test was conducted using the ProUCL 5.00.02 software (Singh and Maichele, 2015). The methodologies employed follow United States Environmental Protection Agency (USEPA) and Cal-EPA risk assessment guidance.

The null (H0) and alternate hypothesis (HA) test results were presented as follows:

- H0: the mean chemical concentration for the Site is less than or equal to the mean concentration in the background population.
- HA: the mean chemical concentration for the Site is greater than the mean concentration in the background population.

Copies of ProUCL printouts for all chemicals tested are included in Attachment A.

Based on the results of the WMW test, a chemical having an indoor air concentration statistically higher (p < 0.05) than its outdoor concentration was considered to be due to a chemical release into the building's interior. All VOCs detected in indoor air were found to be at concentrations equal to or lower (i.e., not statistically significantly different) than the concentration of the same chemical reported for outdoor air (Attachment A).

Results and Conclusions

The chemicals detected in soil gas, indoor air, and outdoor air at the Site are known to be widely used as fuel components and solvents in many consumer and domestic products. Thus, it is possible that these chemicals were released to indoor air from the use of consumer products, fuels, lubricants, sealers, solvents and cleaning articles, and/or construction materials.

The objective of the indoor air sampling was to determine if vapor intrusion is occurring at the school site. According to Cal-EPA (2023) guidance, if vapor intrusion is occurring, we would expect that (1) the relative ratios of VOC concentrations in soil gas and indoor air would be similar, indicating a link between soil gas and indoor air; (2) chemical-specific attenuation factors derived from indoor air and subsurface sampling data would be similar, and (3) subsurface-derived VOCs would be found in indoor air at concentrations higher than outdoor air concentrations.

Comparison of the ratios of VOC concentrations in soil gas to indoor air shows that the relative ratios of "risk driver" chemicals in soil gas are different from those of indoor air. Therefore, there is no evidence of a link between VOCs in soil gas and those found in indoor air.

The chemical-specific attenuation factors estimated for "risk driver" chemicals at the Site range from 0.25 for ethylbenzene to 0.000098 for TCE (Table 6). Since the data indicate that the chemical-specific AFs are not similar, there is no evidence of a link between VOCs in soil gas and those found in indoor air.

In an effort to determine if there is a significant difference in the indoor and outdoor VOC concentrations, Enviro-Tox conducted a statistical comparison of indoor and outdoor VOC concentrations. According to the statistical analyses, there is no significant difference between the indoor and outdoor air quality data for the five "risk drivers." These results indicate that vapor

Technical Memorandum Indoor Air Quality Assessment August 3, 2023

intrusion is either not occurring at the school site or, if occurring, it is occurring at a very slow rate and at a rate that does not affect the indoor air quality.

Based on this evaluation it can be concluded that VOCs detected in indoor air at the school site likely originated from "background" sources such as consumer products, construction materials and outdoor air. It can also be concluded that, while some VOCs detected in soil gas may also contribute to VOCs detected in indoor air, the contribution from soil gas is likely minimal and insignificant when compared to the contribution made by "background" sources.

Limitations

The conclusions and recommendations presented in this report are professional opinions based solely upon the data described in this report. They are intended exclusively for the purpose outlined herein and the property's location and project indicated. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of users other than NV5. Any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

Given that the scope of services for this investigation was limited, and that conditions may vary between the points explored, it is possible that currently unrecognized subsurface contamination might be present at the subject property. Should site use or conditions change, the information and conclusions in this report may no longer apply. Opinions relating to environmental and public health conditions are based on limited data and actual conditions may vary from those encountered at the times and locations where data were obtained. No express or implied representation or warranty is included or intended in this report except that the work was performed within the limits prescribed by the Client with the customary thoroughness and competence of professionals working in the same area on similar projects.

References

- California Environmental Protection Agency (Cal-EPA), Department of Toxic Substances Control (DTSC). 2023. Supplemental Guidance: Screening and Evaluating Vapor Intrusion. Final Draft. February.
- Enviro-Tox Services, Inc. 2023. Vapor Intrusion Risk Evaluation, McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, California. July 10.
- NV5. 2023. Soil Vapor Investigation Report McKinley Elementary School, 2401 Santa Monica Boulevard, Santa Monica, CA 90404.
- Singh, A. and R. Maichle. 2015. "ProUCL Version 5.1, User Guide. Statistical Software for Environmental Applications for Data Sets with and without Nondetect Observations" Prepared for U.S. Environmental Protection Agency, Office of Research and Development. EPA/600/R-07/041.

Technical Memorandum Indoor Air Quality Assessment August 3, 2023

Attachments

Table 1.	Soil Vapor Sample Laboratory Analysis Summary
Table 2.	Indoor Air and Outdoor Air Sampling Laboratory Analysis Summary
Table 3.	Chemical Composition Ratios for "Risk Drivers" Detected in Soil Gas
Table 4.	Chemical Composition Ratios for Chlorinated "Risk Drivers" Detected in Indoor Air
Table 5.	Chemical Composition Ratios for Petroleum-Derived "Risk Drivers" Detected in Indoor Air
Table 6.	Chemical-Specific Attenuation Factors for "Risk Drivers"

Attachment A – ProUCL Printout

This memorandum was prepared by:

Enviro-Tox Services, Inc.

t. P. Rem 4

Heriberto Robles, Ph. D., D.A.B.T. Principal Toxicologist

TABLES

Table 1Soil Vapor Sample Laboratory Analysis SummaryMcKinley Elementary School2401 Santa Monica Boulevard, Santa Monica, California

											VOCS EPA N Results									
Sample ID	Ground Surface)	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Benzene	Ethylbenzene	Freon 12	lsopropyl benzene	m,p-Xylene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	Tetrachloroethene	Toluene	Trichloroethene
SV4-5V	5	6/10/2023	226	96	232	25	111	ND (<12)	27	461	ND (<8)	ND (<5)	ND (<4)	66	103	ND (<4)	ND (<6)	489	290	ND (<8)
SV4-15V	15	6/10/2023	ND (<6)	ND (<6)	ND (<5)	ND (<3)	ND (<6)	ND (<12)	ND (<7)	ND (<11)	ND (<8)	ND (<5)	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	701	ND (<5)	ND (<8)
SV5-5V	5	6/10/2023 6/10/2023	24 ND (<6)	22 ND (<6)	397	13 ND (<3)	38 7J	16J 16	ND (<7)	78 ND (<11)	ND (<8)	8J ND (<5)	ND (<4) ND (<4)	ND (<5)	38 7J	9J ND (<4)	ND (<6)	84 291	102 ND (<5)	ND (<8)
SV5-15V SV6-5V	5	6/10/2023	12	10 (<6)	ND (<5) 231	ND (<3) ND (<3)	16	16	ND (<7) ND (<7)	32	ND (<8) ND (<8)	ND (<5) ND (<5)	ND (<4) 8J	ND (<5) ND (<5)	16	ND (<4) 7J	ND (<6) ND (<6)	167	24	ND (<8) ND (<8)
SV6-5V SV6-15V	15	6/10/2023	ND (<6)	ND (<6)	ND (<5)	ND (<3)	16 7J	ND (<21)	ND (<7) ND (<7)	52 ND (<11)	ND (<8)	ND (<5) ND (<5)	ND (<4)	ND (<5) ND (<5)	16 7J	ND (<4)	ND (<6)	394	ND (<5)	ND (<8)
SV7-5V	5	6/10/2023	12	9	63	ND (<3)	12	16	ND (<7)	24	ND (<8)	ND (<5)	ND (<4)	ND (<5)	12	6J	ND (<6)	1,100	13	ND (<8)
SV7-5V REP	5	6/10/2023	12	10	69	ND (<3)	13	10	ND (<7)	24	ND (<8)	ND (<5)	ND (<4)	ND (<5)	13	7J	ND (<6)	1,530	15	ND (<8)
SV7-5V KEP	15	6/10/2023	ND (<6)	ND (<6)	8	ND (<3)	7J	17	ND (<7)	ND (<11)	ND (<8)	ND (<5)	ND (<4)	ND (<5)	7J	ND (<4)	ND (<6)	2,360	ND (<5)	ND (<8)
SV8-5V	5	6/10/2023	ND (<6)	ND (<6)	2,480	13	9	ND (<12)	ND (<7)	35	ND (<8)	ND (<5)	ND (<4)	ND (<5)	10	ND (<4)	8J	467	261	ND (<8)
SV8-15V	15	6/10/2023	ND (<6)	ND (<6)	29	ND (<3)	ND (<6)	ND (<12)	ND (<7)	ND (<11)	ND (<8)	ND (<5)	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	2,470	ND (<5)	ND (<8)
SV8-15V REP	15	6/11/2023	ND (<6)	ND (<6)	17	ND (<3)	ND (<6)	ND (<12)	ND (<7)	ND (<11)	ND (<8)	ND (<5)	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	2,180	ND (<5)	ND (<8)
SV9-5V	5	6/10/2023	ND (<6)	ND (<6)	239	5J	14	17	ND (<7)	30	ND (<8)	ND (<5)	ND (<4)	ND (<5)	14	7J	ND (<6)	55	66	ND (<8)
SV9-15V	15	6/10/2023	8J	ND (<6)	21	ND (<3)	8J	16J	ND (<7)	14J	ND (<8)	7J	7J	ND (<5)	8J	7J	ND (<6)	254	24	ND (<8)
SV10-5V	5	6/10/2023	ND (<6)	ND (<6)	395	5J	ND (<6)	ND (<12)	ND (<7)	ND (<11)	ND (<8)	ND (<5)	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	68	198	ND (<8)
SV10-15V	15	6/10/2023	ND (<6)	ND (<6)	88	ND (<3)	ND (<6)	ND (<12)	ND (<7)	ND (<11)	ND (<8)	ND (<5)	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	646	16	ND (<8)
SV11-5V	5	6/10/2023	ND (<6)	ND (<6)	366	6J	ND (<6)	ND (<12)	ND (<7)	ND (<11)	ND (<8)	ND (<5)	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	54	231	ND (<8)
SV11-15V	15	6/10/2023	ND (<6)	ND (<6)	ND (<5)	ND (<3)	ND (<6)	ND (<12)	ND (<7)	ND (<11)	ND (<8)	14J	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	926	11	31
SV12-5V	5	6/10/2023	ND (<6)	ND (<6)	15	ND (<3)	ND (<6)	ND (<12)	ND (<7)	16J	12J	14J	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	ND (<8)	93	ND (<8)
SV12-15V	15	6/10/2023	ND (<6)	ND (<6)	29	ND (<3)	ND (<6)	ND (<12)	ND (<7)	ND (<11)	ND (<8)	ND (<5)	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	82	14	98
SV13-5V	5	6/10/2023	15	ND (<6)	301	14	49	ND (<12)	ND (<7)	201	ND (<8)	ND (<5)	ND (<4)	ND (<5)	69	ND (<4)	ND (<6)	222	153	ND (<8)
SV13-15V	15	6/10/2023	ND (<6)	ND (<6)	ND (<5)	ND (<3)	ND (<6)	ND (<12)	ND (<7)	ND (<11)	ND (<8)	ND (<5)	ND (<4)	ND (<5)	ND (<5)	ND (<4)	ND (<6)	2,600	10	ND (<8)

NOTES:

 μ g/m³ = micrograms per cubic meter

ND (<MDL) = Not detected at or above the listed laboratory method detection limit (MDL)

REP = Replicate Sample

J = Concentration is below laboratory reporting limit (RL) but above MDL

Table 2 Indoor Air and Outdoor Air Sampling Laboratory Analysis Summary McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California

		OA1	OA2	OA3	OA4	IA1	IA2	IA3	IA3 DUP	IA4	IA5	IA6	IA7	IA8	IA9	IA10
Analyte	CAS Number	Chelsea Parking Lot	Main Playground	Southwestern Lawn	Southeastern Playground	Building D Room 71D	Building D Room 70	Building D Room 71	Building D Room 71	Modular Building Room B10	Portable Classroom Building B7	Portable Classroom Building B2	Building A Cafeteria	Building B Basement	Building B Room 109	Building B Room 107
Dichlorodifluoromethane (12)	75-71-8	2	1.6	2.1	2	2.1	2.1	2.1	2.1	2	1.9	1.9	2	2	2	2
Chloromethane	74-87-3	1	0.89	1.1	1.1	1.1	1.3	1.2	1.1	1.2	1.1	1.1	1.1	1	1.2	1.1
Vinyl Chloride	75-01-4	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	0.0072J	0.0075J	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)
Chloroethane	75-00-3	0.035	0.052	0.085	0.088	0.11	0.13	0.11	0.099	0.05	0.048	0.088	0.065	0.041	0.052	0.042
Trichlorofluoromethane (11)	75-69-4	1	0.78	1.1	1	1	1.1	1.1	1	0.99	0.96	0.96	0.98	1	0.98	1
1,1,2-Cl 1,2,2-F ethane (113)	76-13-1	0.44	0.36	0.45	0.43	0.43	0.45	0.45	0.44	0.44	0.43	0.43	0.43	0.44	0.44	0.45
1,1-Dichloroethene	75-35-4	0.0030J	ND (<0.0025)	ND (<0.0025)	0.0031J	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	0.0025J	0.0029J	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	0.0046J
Methylene Chloride	75-09-2	0.29	0.31	0.32	0.3	0.32	0.31	0.31	0.31	0.42	0.3	0.29	0.29	0.28	0.34	0.36
t-1,2-Dichloroethene	156-60-5	0.0039J	ND (<0.0029)	0.0040J	0.0038J	0.0038J	ND (<0.0029)	0.0041J	ND (<0.0029)	0.0039J	0.0029J	0.0081J	ND (<0.0029)	0.0037J	ND (<0.0029)	0.0045J
1,1-Dichloroethane	75-34-3	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)
c-1,2-Dichloroethene	156-59-2	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	0.0039J	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)
Chloroform	67-66-3	0.11	0.1	0.11	0.1	0.12	0.1	0.11	0.12	0.1	0.18	0.12	0.11	0.11	0.18	0.17
1,1,1-Trichloroethane	71-55-6	0.0065J	0.0074J	0.0076J	0.0088J	0.0085J	0.0089J	0.0079J	0.0072J	0.0069J	0.0070J	0.0093J	0.0074J	0.0085J	0.076	0.48
Carbon Tetrachloride	56-23-5	0.45	0.44	0.46	0.45	0.45	0.47	0.46	0.46	0.45	0.44	0.44	0.44	0.46	0.45	0.45
Benzene	71-43-2	0.26	0.32	0.34	0.33	0.29	0.3	0.32	0.31	0.23	0.28	0.56	0.29	0.27	0.27	0.29
1,2-Dichloroethane	107-06-2	0.05	0.049	0.049	0.051	0.097	0.067	0.073	0.073	0.048	0.055	0.29	0.049	0.076	0.066	0.054
Trichloroethene	79-01-6	0.07	0.091	0.098	0.079	0.067	0.066	0.09	0.087	0.03	0.085	0.041	0.084	0.075	0.023J	0.043
1,2-Dichloropropane	78-87-5	0.016J	0.010J	0.013J	0.011J	0.021J	0.011J	0.013J	0.017J	0.014J	0.014J	0.062	0.011J	0.014J	0.020J	0.019J
Bromodichloromethane	75-27-4	ND (<0.0071)	ND (<0.0071)	ND (<0.0071)	ND (<0.0071)	0.012J	0.011J	ND (<0.0071)	0.0093J	0.0094J	0.1	0.013J	0.014J	0.0073J	0.0080J	ND (<0.0071)
Toluene	108-88-3	0.52	0.28	0.68	0.66	1	0.99	1	0.99	0.69	0.74	1.6	0.59	0.6	2.1	1.8
t-1,3-Dichloropropene	10061-02-6	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	0.0077J	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	0.019J	0.0059J	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)
1,1,2-Trichloroethane	79-00-5	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)
Tetrachloroethene	127-18-4	0.017J	0.016J	0.016J	0.019J	0.12	0.1	0.15	0.15	0.018J	0.024J	0.031J	0.018J	0.019J	0.022J	0.020J
1,2-Dibromoethane	106-93-4	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	0.0030J	0.0045J	ND (<0.0017)	ND (<0.0017)	0.0048J	0.0023J	0.016J	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	0.0050J
Ethylbenzene	100-41-4	0.12	0.19	0.15	0.14	0.2	0.19	0.19	0.2	0.23	0.3	0.25	0.17	0.16	0.26	0.32
p,&m-Xylene		0.4	0.71	0.49	0.46	0.63	0.62	0.65	0.64	0.76	0.6	0.6	0.57	0.53	0.78	1
o-Xylene	95-47-6	0.16	0.24	0.18	0.18	0.3	0.28	0.3	0.3	0.28	0.22	0.25	0.21	0.23	0.31	0.38
Styrene	100-42-5	0.048J	0.054J	0.041J	0.16	0.18	0.18	0.24	0.16	0.17	0.38	0.48	0.066J	0.23	0.37	0.3
1,1,2,2-Tetrachloroethane	79-34-5	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)				ND (<0.0061)
Naphthalene	91-20-3	0.14	0.09	0.14	1.1	0.33	0.36	0.36	0.35	0.15	0.23	0.39	0.27	0.19	0.53	0.37

Notes:

All concentrations are reported in micrograms per cubic meter ($\mu g/m^3$)

ND: Not detected above reported laboratory method detection limit (ND < MDL)

J: Reported concentration is below laboratory reporting limit but above the laboratory method detection limit

Table 2Indoor Air and Outdoor Air Sampling Laboratory Analysis SummaryMcKinley Elementary School2401 Santa Monica Boulevard, Santa Monica, California

		IA11	IA12	IA13	IA14	IA15	IA16	IA17	IA18	IA19	IA20
Analyte	CAS Number	Building B Room 207	Building C Admin Office	Building C Library	Building C Room 102	Building C Room 105	Building C Auditorium	Building C STEM Lab	Building C Basement	Building C Room 202	Building C Boys Bathroom
Dichlorodifluoromethane (12)	75-71-8	2	2	1.9	2	2	2	2	2	2	2
Chloromethane	74-87-3	1.1	1.1	1	1	1.1	1.1	1.1	1	1.2	1.1
Vinyl Chloride	75-01-4	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)	ND (<0.0060)
Chloroethane	75-00-3	0.043	0.1	0.067	0.052	0.074	0.063	0.068	0.059	0.078	ND (<0.0080)
Trichlorofluoromethane (11)	75-69-4	0.99	0.99	0.97	0.99	1	1	1	1	0.98	1
1,1,2-Cl 1,2,2-F ethane (113)	76-13-1	0.44	0.44	0.43	0.43	0.44	0.44	0.44	0.44	0.43	0.44
1,1-Dichloroethene	75-35-4	0.0032J	0.0029J	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)	ND (<0.0025)
Methylene Chloride	75-09-2	0.35	0.32	0.28	0.33	0.31	0.28	0.3	0.29	0.31	0.28
t-1,2-Dichloroethene	156-60-5	0.0031J	ND (<0.0029)	0.0036J	0.0056J	0.0041J	0.0047J	ND (<0.0029)	ND (<0.0029)	0.0029J	ND (<0.0029)
1,1-Dichloroethane	75-34-3	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)	ND (<0.0076)
c-1,2-Dichloroethene	156-59-2	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)	ND (<0.0033)
Chloroform	67-66-3	0.11	0.12	0.11	0.15	0.14	0.1	0.21	0.12	0.11	0.095
1,1,1-Trichloroethane	71-55-6	0.21	0.025J	0.0075J	0.064	0.067	0.022J	0.015J	0.0075J	0.057	0.0066J
Carbon Tetrachloride	56-23-5	0.45	0.45	0.44	0.44	0.45	0.45	0.44	0.45	0.45	0.45
Benzene	71-43-2	0.32	0.29	0.3	1.2	0.33	0.29	0.29	0.28	0.31	0.26
1,2-Dichloroethane	107-06-2	0.05	0.078	0.047	0.067	0.064	0.046	0.063	0.065	0.055	0.044
Trichloroethene	79-01-6	0.17	0.078	0.059	0.071	0.09	0.069	0.059	0.048	0.095	0.047
1,2-Dichloropropane	78-87-5	0.014J	0.016J	ND (<0.0098)	0.018J	0.038J	0.015J	0.021J	0.013J	0.012J	ND (<0.0098)
Bromodichloromethane	75-27-4	0.0081J	ND (<0.0071)	0.0094J	0.015J	ND (<0.0071)	0.011J	ND (<0.0071)	0.011J	0.023J	0.0099J
Toluene	108-88-3	0.94	0.86	0.7	3	0.91	0.6	0.87	1.5	0.79	0.5
t-1,3-Dichloropropene	10061-02-6	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	ND (<0.0059)	0.077	ND (<0.0059)
1,1,2-Trichloroethane	79-00-5	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)	ND (<0.0022)
Tetrachloroethene	127-18-4	0.023J	0.028J	0.055J	0.035J	0.034J	0.017J	0.019J	0.018J	0.021J	0.028J
1,2-Dibromoethane	106-93-4	ND (<0.0017)	0.0046J	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	ND (<0.0017)	0.0020J	ND (<0.0017)	ND (<0.0017)
Ethylbenzene	100-41-4	0.19	0.21	0.14	0.35	0.33	0.14	2	0.24	0.21	0.12
p,&m-Xylene		0.62	0.55	0.44	1.1	1	0.44	7.7	0.83	0.58	0.39
o-Xylene	95-47-6	0.22	0.21	0.16	0.38	0.37	0.16	1.9	0.26	0.25	0.16
Styrene	100-42-5	0.16	0.16	0.2	0.26	0.16	0.098	0.44	0.21	0.31	0.054J
1,1,2,2-Tetrachloroethane	79-34-5	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)	ND (<0.0061)
Naphthalene	91-20-3	0.24	0.17	0.24	0.28	0.21	0.24	0.2	0.16	0.22	0.12

Notes:

All concentrations are reported in micrograms per cubic meter ($\mu g/m^3$)

ND: Not detected above reported laboratory method detection limit (ND < MDL)

J: Reported concentration is below laboratory reporting limit but above the laboratory method detection limit

Table 3Chemical Composition Ratios for "Risk Drivers" Detected in Soil GasMcKinley Elementary School2401 Santa Monica Boulevard, Santa Monica, California

		Chlorinated '	'Risk Drivers"	Petroleu	ım-Derived "Risk	Drivers"
Sample ID	Sample Depth (Feet Below Ground Surface)	Tetrachloroethene	Trichloroethene	Benzene	Ethylbenzene	Naphthalene
SV4-5V	5	489	ND (<8)	25	111	0
SV5-5V	5	84	ND (<8)	13	38	8
SV6-5V	5	167	ND (<8)	0.0	16	0
SV7-5V	5	1,100	ND (<8)	0.0	12	0
SV7-5V REP	5	1,530	ND (<8)	0.0	13	0
SV8-5V	5	467	ND (<8)	13	9	0
SV9-5V	5	55	ND (<8)	5.0	14	0
SV10-5V	5	68	ND (<8)	5.0	0.0	0
SV11-5V	5	54	ND (<8)	6.0	0.0	0
SV12-5V	5	ND (<8)	ND (<8)	0	0	14
SV13-5V	5	222	ND (<8)	14	49	0
SV4-15V	15	701	ND (<8)	0.0	0.0	0
SV5-15V	15	291	ND (<8)	0.0	7.0	0
SV6-15V	15	394	ND (<8)	0.0	7.0	0
SV7-15V	15	2,360	ND (<8)	0.0	7.0	0
SV8-15V	15	2,470	ND (<8)	0.0	0.0	0
SV8-15V REP	15	2,180	ND (<8)	0.0	0.0	0
SV9-15V	15	254	ND (<8)	0.0	8.0	7
SV10-15V	15	646	ND (<8)	0.0	0.0	0
SV11-15V	15	926	31	0	0	14
SV12-15V	15	82	98	0	0	0
SV13-15V	15	2,600	ND (<8)	0	0	0

Notes:

All concentrations are reported in micrograms per cubic meter ($\mu g/m^3$)

ND (<MDL) = Not detected at or above the listed laboratory method detection limit (MDL)

REP = Replicate Sample

Table 4Chemical Composition Ratios for Chlorinated "Risk Drivers" Detected in Indoor AirMcKinley Elementary School2401 Santa Monica Boulevard, Santa Monica, California

	IA1	IA2	IA3	IA3 DUP	IA4	IA5	IA6	IA7	IA8	IA9	IA10	IA11	IA12	IA13	IA14	IA15	IA16
Analyte	Building D Room 71D	Building D Room 70	Building D Room 71	Building D Room 71	Modular Building Room B10	Portable Classroom Building B7	Portable Classroom Building B2	Building A Cafeteria	Building B Basement	Building B Room 109	Building B Room 107	Building B Room 207	Building C Admin Office	Building C Library	Building C Room 102	Building C Room 105	Building C Auditorium
Chlorinated VOCs																	
Trichloroethene	0.067	0.066	0.09	0.087	0.03	0.085	0.041	0.084	0.075	0.023	0.043	0.17	0.078	0.059	0.071	0.09	0.069
Tetrachloroethene	0.12	0.1	0.15	0.15	0.018	0.024	0.031	0.018	0.019	0.022	0.02	0.023	0.028	0.055	0.035	0.034	0.017
Total	0.187	0.166	0.24	0.237	0.048	0.109	0.072	0.102	0.094	0.045	0.063	0.193	0.106	0.114	0.106	0.124	0.086
Ratios (% of total)				-			-					-					-
Trichloroethene	35.83	39.76	37.50	36.71	62.50	77.98	56.94	82.35	79.79	51.11	68.25	88.08	73.58	51.75	66.98	72.58	80.23
Tetrachloroethene	64.17	60.24	62.50	63.29	37.50	22.02	43.06	17.65	20.21	48.89	31.75	11.92	26.42	48.25	33.02	27.42	19.77
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Notes:

All concentrations are reported in

micrograms per cubic meter (μ g/m³)

Table 4

Chemical Composition Ratios for Chlorinated "Risk Drivers" Detected in Indoor Air McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California

	IA17	IA18	IA19	IA20
Analyte	Building C STEM Lab	Building C Basement	Building C Room 202	Building C Boys Bathroom
Chlorinated VOCs				
Trichloroethene	0.059	0.048	0.095	0.047
Tetrachloroethene	0.019	0.018	0.021	0.028
Total	0.078	0.066	0.116	0.075
Ratios (% of total)				
Trichloroethene	75.64	72.73	81.90	62.67
Tetrachloroethene	24.36	27.27	18.10	37.33
Total	100.00	100.00	100.00	100.00

Notes:

All concentrations are reported in micrograms per cubic meter (µg/m³)

Table 5Chemical Composition Ratios for Petroleum-Derived "Risk Drivers" Detected in Indoor AirMcKinley Elementary School2401 Santa Monica Boulevard, Santa Monica, California

	IA1	IA2	IA3	IA3 DUP	IA4	IA5	IA6	IA7	IA8	IA9	IA10	IA11	IA12	IA13	IA14	IA15
Analyte	Building D Room 71D	Building D Room 70	Building D Room 71	Building D Room 71	Modular Building Room B10	Portable Classroom Building B7	Portable Classroom Building B2	Building A Cafeteria	Building B Basement	Building B Room 109	Building B Room 107	Building B Room 207	Building C Admin Office	Building C Library	Building C Room 102	Building C Room 105
Petroleum-Derived VOCs																
Benzene	0.29	0.3	0.32	0.31	0.23	0.28	0.56	0.29	0.27	0.27	0.29	0.32	0.29	0.3	1.2	0.33
Ethylbenzene	0.2	0.19	0.19	0.2	0.23	0.3	0.25	0.17	0.16	0.26	0.32	0.19	0.21	0.14	0.35	0.33
Naphthalene	0.33	0.36	0.36	0.35	0.15	0.23	0.39	0.27	0.19	0.53	0.37	0.24	0.17	0.24	0.28	0.21
Total	0.82	0.85	0.87	0.86	0.61	0.81	1.2	0.73	0.62	1.06	0.98	0.75	0.67	0.68	1.83	0.87
Ratios (% of Total)																
Benzene	35.37	35.29	36.78	36.05	37.70	34.57	46.67	39.73	43.55	25.47	29.59	42.67	43.28	44.12	65.57	37.93
Ethylbenzene	24.39	22.35	21.84	23.26	37.70	37.04	20.83	23.29	25.81	24.53	32.65	25.33	31.34	20.59	19.13	37.93
Naphthalene	40.24	42.35	41.38	40.70	24.59	28.40	32.50	36.99	30.65	50.00	37.76	32.00	25.37	35.29	15.30	24.14
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Notes:

All concentrations are reported in

micrograms per cubic meter (µg/m³)



Table 5

Chemical Composition Ratios for Petroleum-Derived "Risk Drivers" Detected in Indoor Air McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California

	IA16	IA17	IA18	IA19	IA20
Analyte	Building C Auditorium	Building C STEM Lab	Building C Basement	Building C Room 202	Building C Boys Bathroom
Petroleum-Derived VOCs					
Benzene	0.29	0.29	0.28	0.31	0.26
Ethylbenzene	0.14	2	0.24	0.21	0.12
Naphthalene	0.24	0.2	0.16	0.22	0.12
Total	0.67	2.49	0.68	0.74	0.5
Ratios (% of Total)					
Benzene	43.28	11.65	41.18	41.89	52.00
Ethylbenzene	20.90	80.32	35.29	28.38	24.00
Naphthalene	35.82	8.03	23.53	29.73	24.00
Total	100.00	100.00	100.00	100.00	100.00

Notes:

All concentrations are reported in

micrograms per cubic meter (µg/m³)



Table 6

Chemical-Specific Attenuation Factors for "Risk Drivers" McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California

"Risk Driver" Volatile Organic Compounds	Maximum Soil Gas Concentration Detected at a Depth of 5 Feet Below Ground Surface (ug/m ³)	Maximum Soil Gas Concentration Detected at a Depth of 15 Feet Below Ground Surface (ug/m ³)	Maximum Detected Indoor Air Concentration (ug/m³)	for VOCs Detected at a Depth of 5	Attenuation factor for VOCs Detected at a Depth of 15 Feet Below Ground Surface (Unitless)
Benzene	25	0	1.2	4.8E-02	NC
Ethylbenzene	111	8	2	1.8E-02	2.5E-01
Naphthalene	14	14	0.53	3.8E-02	3.8E-02
Tetrachloroethene	1530	2600	0.15	9.8E-05	5.8E-05
Trichloroethene	0	98	0.17	NC	1.7E-03

Notes:

ug/m³ = Micrograms per cubic meter NC = Not calculated

ATTACHMENT A

ProUCL Printout

Building A, Modular and Portable Air Sampling Results McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California

		OA1	OA2	OA3	OA4	IA4	IA5	IA6	IA7
		Chelsea Parking Lot	Main Playground	Southwestern Lawn	Southeastern Playground	Modular Building Room B10	Portable Classroom Building B7	Portable Classroom Building B2	Building A Cafeteria
Analyte	CAS Number								
Chlorinated VOCs									
Tetrachloroethene	127-18-4	1.7E-02	1.6E-02	1.6E-02	1.9E-02	1.8E-02	2.4E-02	3.1E-02	1.8E-02
Trichloroethene	79-01-6	7.0E-02	9.1E-02	9.8E-02	7.9E-02	3.0E-02	8.5E-02	4.1E-02	8.4E-02
Petroleum-Derived VOCs									
Benzene	71-43-2	2.6E-01	3.2E-01	3.4E-01	3.3E-01	2.3E-01	2.8E-01	5.6E-01	2.9E-01
Ethylbenzene	100-41-4	1.2E-01	1.9E-01	1.5E-01	1.4E-01	2.3E-01	3.0E-01	2.5E-01	1.7E-01
Naphthalene	91-20-3	1.4E-01	9.0E-02	1.4E-01	1.1E+00	1.5E-01	2.3E-01	3.9E-01	2.7E-01

	<u> </u>		1				- In the second second	1	1	
	Wilcoxon-Mann-Whi	tney Sam	ole 1 vs Sar	nple 2 Con	nparison	Test for Und	ensor Full	Data Sets	without NDs	enternom Aussenieren normen ernanne ine
2	Lear Salastad Onting	Analogical and the state	ور باروند و باروند و الم	no – "Co. "miljardo a knymu – malja Ogo	Constant and the second	and the second	1990 - 1 - 1 - 1 - 1 - Average	1000-000	- Sector Sector (101) Sectors	·····
3	User Selected Options	D	0 7/0 / /0 0 5		•		Sector Martine	and the second	an and a second s	
	and and the second s	ProUCL 5.2 7/24/2023 2:33:04 PM								
5	and a second	McKinley I-O Risk Driver Stats.xls								
		OFF								
7	and a second state of the	95%								
3	and the second	0.000								
	and a second	Sample 1 Mean/Median <= Sample 2 Mean/Median (Form 1)								
0	Alternative Hypothesis	Sample 1 N	Mean/Media	n > Sample	2 Mean/N	ledian				
1				and an		And shared a Conception of Manager, 1942-971-97			namma aranta Alabaparana - C	
2										n an
1	ample 1 Data: OA-PCE	and the second se		an a				• (•	States of the second states	Contradiction of the second
	ample 2 Data: Bld. C-PCE		and a first state of the state	(haarii aa ahaanaa	Anno 2000 - Constantino de Constantino de Constantino de Constantino de Constantino de Constantino de Constanti		and the second second second	and the second sec		•*************************************
5		an a	999	(ac	an an ta					999
3	Ra	aw Statistic	25	1.15 and a second a second provide the second	n fundarum i metaryan i vega				11 Statement () is month, 200 s	-
7			Sample 1	Sample 2	1) (*) (*) (*) (*) (*) (*) (*) (*) (*) (*				er en er forsjoner i ser en en en en son for i de en	
3	Number of Valid Observations		4	4					ann (ar) Iomraidhe (- ar ann	
Ð	Number of Distinct Observations		3	3				********************************	and (++++)	and the second sec
)	Minimum		0.016	0.1						1
1	Maximum		0.019	0.15	in the second se					
2	Mean		0.017	0.13						
3	Median		0.0165	0.135	in compared as					+
1	SD		0.00141	0.0245			and the second sec			
5	SEc	of Mean	7.0711E-4	0.0122			-			
;			and a second		li To					
7	Wilcoxon-Man	n-Whitney	(WMW) Te	st	The construction of the second second					
3			-	an - Senare Sociedand - Senar		10 ⁻¹				
	0: Mean/Median of Sample 1 <= M	/lean/Medi	an of Samp	le 2	ana ang ang ang ang ang ang ang ang ang		anne a status a status a status da		ne en e	Alie = = = = = = = = = = = = = = = = = = =
)	anne e maine a sub a construction de la construction de la construction de la construction de la construction d			n na hari kasara asabida kasarar.				····	······	
	Sample 1 Rank Su	um W-Stat	10	144 aut (1647 autor) - 12 - 147 autor - 147 a	and one of the part of the part of the				and a set of a second	
2	WMW U-Stat		0		-			and the set of the set		
5	nannan an	Mean (U)	8				-			1
	SD(U) - Adj ties		3.443				-	-		
5	WMW U-Stat Critical Va		14				-			
	Standardized WM		-2.483						·····	
	Approximate		0.993			• • • • • • • • • • • • • • • • • • • •			and the second	
	, whi avoing			and the second					and the second sec	
	onclusion with Alpha = 0.05			an a	and a specific sector of the sector se					
	Do Not Reject H0, Conclude Sam	nle 1 <= 9	amnle 2		and a second	-				
			ampic z	n manager () out an		n			(r)	-
						Annual C				

	- jamain - I		1	1/						
1	Wilcoxon-Mann-Whi	tney Sam	nple 1 vs Sa	ample 2 Co	nparison	Test for U	ncensor F	ull Data Se	ts without N	IDs
2								and the second second	And the second sec	the second second building of the second second
3	User Selected Options		and games for the second s				and the second	n Malandan in San San Sana	······ ··· ····	and a second and a second and a
4				3 2:34:38 PM			1999-1925 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1			nia at e Marian - Mitta -
5		orme data to the second second	I-O Risk Dri	ver Stats.xls		an (Inclusion), and an angle of the		an a	·····	an far an first an
5		OFF	ananan kan bar ta sa kan kan kan ya sa	and a second distance of the	are a start of the		n - miningen i mensensen	and the second	and the second stranger and	
7		95%			and the second	And the second			a pille sons and	
3	and the second se	0.000	an a	n dan metala separata per dalam semi menjeban seri dan se	na Marine anna Anna Anna Anna Anna Anna Anna An	addan ar an ann an				
Э	Selected Null Hypothesis S	Sample 1	Mean/Media	an <= Sampl	e 2 Mean	/Median (F	orm 1)		and a standard standard and and an an and a standard standard standard standard standard standard standard stand	
0	Alternative Hypothesis S	Sample 1	Mean/Media	n > Sample	2 Mean/I	Vedian				and a second a second a second
1		- and the second se		and the formation of the second s		en an	and the second second second		a artes de laterary attance a	and the second second second second
2		- Institute and a second state of a	and a set of a discontinuous discount of the particular	ninte andre tracks - ingrings - ingri	an in the second se	1			1.141.1444 (1.11.141)	
3	Sample 1 Data: OA-TCE	and the statistic same stars whereas	1)		an to an orally and a second		2 (1999)		and a survey of the second second	
4	Sample 2 Data: Bld. C-TCE	·····	······	and the second second states of the second	and the second					
5		Palatini (ana provinsi palatini palatini palatini palatini palatini palatini palatini palatini palatini palatin	and the second	a a second a	and the second sec					
6	Ra	w Statisti	cs	and a second define the product of the second s	Construction of the second second					
7		an a	Sample 1	Sample 2	· · · · · · · · · · · · · · · · · · ·			à		·····
8	Number of Valid Observ	vations	4	4	anna a taon anna 1500 anna	Transfer of the second s				
9	Number of Distinct Observ		4	4	404 ^{- 10} 14 - 1014 - 1014 - 1014	and the second sec		ļ	the first sector of the sector	
0		nimum	0.07	0.066	eren on energy of the					
1		ximum	0.098	0.00	an an ann an	1				
2		Mean	0.0845	0.0775	en familie and an	and the second sec				
3		/ledian	0.085	0.0773	an constraint and a second	and the second s				
4	a a construction and a construction of the con	SD	0.000	0.0128	A stable formation where the second					
5	SF of	Mean	0.00622	0.00638						
6			0.00022	0.00038	en and a sum over and as a		and the second s	ann an Starten Starten Starten -		
7	Wilcoxon-Mann	-Whitney		et					Tangan and the Constant of Constant	
8		. undey		31					Ì	
1.	H0: Mean/Median of Sample 1 <= Me	an/Media	an of Same	<u>_</u> 2						
5			an or oampi	₩ <u>4</u>						
1	Sample 1 Rank Sun	n W-Stat	22		erender and a set of the state of a					
2	and an and the second	W U-Stat	12				10.00		0004000 marca	
3		Aean (U)	8		110005			1		
	and with the second	Adj ties			111100 - da - mar - 111		11011000	And a second stream of the second	Contract of Contract of Contract	
;	WMW U-Stat Critical Valu		3.464 14			-			14175	
	Standardized WMV		1.01	and the second	- en-	-			The later in the later	
	Approximate			1999-1999-1999-1999-1999-1999-1999-199			1			
	thin out the	-value	0.156	1	() 1/10	a management of the second second second				
	Conclusion with Alpha = 0.05	· ·· ···		et al compare e parte a compare e compare de la compare de la compa	novice and the Property Income to a					
	Do Not Reject H0, Conclude Sampl		omale O			1	-			
-		ie i <= St	ample 2	and the second						

1	Wilcoxon-Mann-W	hitney Sa	mple 1 vs S	ample 2 Co	mparisor	Test for U	ncensor Et			1	
2		- Marine Bat	a de la companya de l		- Period			iii Data Se	ts without	NDs	
3	User Selected Options	5	and an one of the state of the			 and an extension of the state state of the s	- 1986 A		and the second second second		
4	and a second	1	5.2 7/24/202	3 2:35·20 P	M				an an ann an san an an an an		
5	From File	and the second s	/ I-O Risk Dr				and the second			transfer to and the	
5	Full Precision	OFF			•	We have a second s	or secure second				
7	Confidence Coefficient	95%	and the second second second second second second provide	ang na tao ng tao na tao ng					and the second second second	rank	
3	Substantial Difference	0.000	an (analogical particular) and a state of the state of th	na twisting and a second state of the second s	·	······································	na anna - maraon a saona				
Э	Selected Null Hypothesis	1	Mean/Media	an <= Samr	le 2 Mea	Modion (F		-m			
0	Alternative Hypothesis	Sample 1	Mean/Media	an > Sampl	2 Mean	Median	onn i)		and the second		
1						weulan		- The second second			
2		anna 1997 an Arlanda (Arlanda Arlanda Arlanda)					-factor & commenced of parts of				
3	Sample 1 Data: OA-Benzene	and the second	na a Aragan na Jakatan na magani sa kara (ak kara	10 - / may							
4	Sample 2 Data: Bld. C-Benzene	*6.)				in a martine state of the second				and an extension of the second se	
5	and a second	a and a construction of the second	and a completion (income the second second	non a sea a sea da ser a da da ser se							
6	R	aw Statist	ics	angelia - • Januar anti-ana	and a second second second second				1		
7			Sample 1	Sample 2							
8	Number of Valid Obse	ervations	4	4	ere pelsesant dat (1)	and the state of the					
9	Number of Distinct Obse	ervations	4	4		and the second s	1				
0		Minimum	0.26	0.29							
1	Ň	laximum	0.34	0.32	i 			(a)			(1) - (1) - (1) - (1)
2		Mean	0.313	0.305	1						
3		Median	0.325	0.305	and the second second						
4		SD	0.0359	0.0129							
5	SE	of Mean	0.018	0.00645							i
3									· · · · · · · · · · · · · · · · · · ·		
7	Wilcoxon-Man	n-Whitney	/ (WMW) Te	st			-1-)-				
3			1	111799-11179 - 1117 - 111797-11179		-					
)	H0: Mean/Median of Sample 1 <= N	/lean/Medi	ian of Samp	le 2	an a						
)		Constitution of the second			10						
	Sample 1 Rank Su	um W-Stat	21.5	an in the second s	and a standard standa	en e					
	WN	/W U-Stat							-		
	and the second	Mean (U)	8		and Angeler and I for marking		mantan in the second second				·
	SD(U)) - Adj ties	3.464		- and and a constant	and the second				···· · ···	
	WMW U-Stat Critical Va	lue (0.05)	14	tan analar managana ang					007-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0		atos os asura
	Standardized WN	1W U-Stat	0.871		-110 <i>7</i> m	The second	•••••				
	Approximate	e P-Value	0.192				- 1				11 a
		Name of Addition of the Property of the State of the State of Stat	an provident and the second		antantan di manganan pelatrana di anangan						
	Conclusion with Alpha = 0.05					Arrest Transformed to the manufacture of			and the first of the second		
	Do Not Reject H0, Conclude Sam	ple 1 <= S	ample 2			-					alla statione
1		ana (+ 20 may of the training) of the	and a second state of the	and a second	······				·····		

	Wilcoxon-Mann-Whit		n sentan en kenne seder er postende						-
	User Selected Options						and the second	and the second second second	
	Date/Time of Computation F	ProUCL 5.2	2 7/24/2023	2:35:57 PM	annan a star			an a	
-	and a second s			ver Stats.xls	an and a second s	n - Aline - Contractor - Contractor		······································	
		DFF		We follow a state of the second state of the s	and the second se	a hanna ann an ann an an an an an an an an	and the same of a second s		Service
	Confidence Coefficient 9	5%	ana ang kanalan ng kan			en an anna an an an an an an an an an	- X	and the second sec	any or commentation and a survey
3	Substantial Difference 0	.000	a Alange at Star sector of the		ethnol (Change) and Change (Change) and a star of a	an a particular a second successful a second success			
)	Selected Null Hypothesis S	Sample 1 N	lean/Media	n <= Sample 2 M	ean/Median (F	form 1)		and a second	- Mai
0				in > Sample 2 Me		5mm 17			
		taranan ang ang ang ang ang ang ang ang ang	n (16) - marina an a			terrariante a construction (Construction)	And Digitization and the second second	-1	
2			an a dharan a shekaran		······				
3	Sample 1 Data: OA-Ethylbenzene			A Constant for the Constant of Constant					
4	Sample 2 Data: Bld. C-Ethylbenzen	9	and and a second se	non on a state of the second					
5		and in particular data and a second system of a second second second second second second second second second	an an tang at tang at tang ang ang ang ang ang ang ang ang ang						
5	Ra	w Statistic	S	alle on - for a financia a literative (see a) constanting of		and the second s			
7			Sample 1	Sample 2				· · · · · · · · · · · · · · · · · · ·	
8	Number of Valid Obser	1	4	4	The second se				
9	Number of Distinct Observ		4	2	and the second sec				
)	and the second production and the second factor of a second factor of the second s	nimum	0.12	0.19					
1	Ma	ximum	0.19	0.2				and the second s	
		Mean	0.15	0.195		Stational Stationary States		*******	
2 3 4		Median	0.145	0.195		and the second sec			
1	anana fali	SD	0.0294	0.00577					
5	SE of	f Mean	0.0147	0.00289					
5					and the second second second second second				
7	Wilcoxon-Mann	-Whitney ((WMW) Te	st					
		1945 - 1919-1919 - 1919 - 1919		annan a'					
)	H0: Mean/Median of Sample 1 <= Me	ean/Media	n of Samp	le 2					
1	na nananan mananan mana	1 / 100		919999-00-00-00-00-00-00-00-00-00-00-00-00		or that part is a second second second			
-	Sample 1 Rank Sur	n W-Stat	11						~
	and the second	W U-Stat	1				an an () and a set of		
		Mean (U)	8						
	and the second	- Adj ties	3.443		$eq:static_stat$				·····
	WMW U-Stat Critical Value	ue (0.05)	14					andra (alter an analysis (alter) - at	
	Standardized WM	N U-Stat	-2.233						-
	Approximate	P-Value	0.987	An example a second secon					
		lin,		han an a					
	Conclusion with Alpha = 0.05	1	and a second state and a second state of the s	and a second	i i i				
	Do Not Reject H0, Conclude Samp	le 1 <= Sa	mple 2	needoo eennoondaalaan - Xaaa					
	an and a second s	A 1891	and a second	and the second many second					

1	Wilcoxon-Mann-W	hitney Sam					I	1	1
12		ninoy Galli	hie I A2 28	ample 2 Compari	son Test for U	ncensor Ful	I Data Sets	without ND:	5
-3	User Selected Options	1		named and the second	101				
1	Date/Time of Computation	1	ירחכי אכיד כ	3 2:36:33 PM	10		a transmission	·	
;	From File	Next taxe, transfer when the second second second			and a survey of the state of the	area and and a second second			
5	Full Precision	OFF	-O Risk Dri	ver Stats.xls	a substanting and a substanting of the substantion	101			
7	Confidence Coefficient	95%	and a second	ang mangang pagkagi sa					
3	Substantial Difference	0.000	and the second	and advantation of the set of the					
)	The second se		A			01 - 10 00 00 000 00 00			
0	A second se	Sample 1		an <= Sample 2 N	lean/Median (F	orm 1)			
1	and a long and the second and the se	Sample 11	viean/iviedia	an > Sample 2 Me	an/Median	The Orientia of the Area			
2			a y						an an an an an an an
3	Sample 1 Data: OA-Naphthalene			and and a second standard of the second second standard sectors of the second se					
4	Sample 2 Data: Bld. C-Naphthalen			adauta a su a parte da como parte da como de la como de	and the second sec				
5	Ballipio 2 Data: Did. C-Napitulaien	le	a di seconda di second						
5		ovu Chevi-vi	and a subscription of the	a false an equipe a state of the	All particular and a second				
7		aw Statistic							1
3	Number of Valid Obse	12.111/2-1.112-1.122-1.122-1.122-1.122-1.122-1.122-1.122-1.122-1.122-1.122-1.122-1.122-1.122-1.122-1.122-1.122	Sample 1	Sample 2	and the second se				· · · · · · · · · · · · · · · · · · ·
	and the state of the second seco		4	4					
)	Number of Distinct Obse	and the surger surgers and the second	3	3				1	
)		Ainimum	0.09	0.33					
1	M	laximum	1.1	0.36				and the second second	
2	(Mean	0.368	0.35					
}		Median	0.14	0.355			and and the second s	······································	
•		SD	0.489	0.0141			- And Construction of Annual Construction		
<u> </u>	SE	of Mean	0.244	0.00707					
1						nerset to the first second			
	Wilcoxon-Man	n-Whitney	(WMW) Te	st			1	and the second se	
í.					() () () () () () () () () () () () () (
	H0: Mean/Median of Sample 1 <= N	lean/Media	n of Sampl	le 2		analos e (
								and the second	ana ana amin'ny sora
	Sample 1 Rank Su			Street and St		(N)			
	WN	/W U-Stat	4				entered for a second	+	
iero	entering and a second	Mean (U)	8			and the second sec			- and a second sec
-	and the second se) - Adj ties	3.443						
- Commenter	WMW U-Stat Critical Va		14	And a second sec	1				
1	Standardized WN		-1.315		and a second sec				1
	Approximate	e P-Value	0.906			1	10		11 ()
		and the second	··· · · · · · · · · · · · · · · · · ·	areas states	and the second				1
-	Conclusion with Alpha = 0.05	andressa standardad		in the second		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			Ne (
	Do Not Reject H0, Conclude Sam	ple 1 <= Sa	imple 2		······································	-	and the second second second		Allow second and a second
-				and the second	and the second se	And a second sec	. v e - para a		

Building B Air Sampling Results McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California

		OA1	OA2	OA3	OA4	IA8	IA9	IA10	IA11
	CASNumber	Chelsea Parking Lot	Main Playground	Southwestern Lawn	Southeastern Playground	Building B Basement	Building B Room 109	Building B Room 107	Building B Room 207
Analyte	CAS Number								
Chlorinated VOCs									
Tetrachloroethene	127-18-4	1.7E-02	1.6E-02	1.6E-02	1.9E-02	1.9E-02	2.2E-02	2.0E-02	2.3E-02
Trichloroethene	79-01-6	7.0E-02	9.1E-02	9.8E-02	7.9E-02	7.5E-02	2.3E-02	4.3E-02	1.7E-01
Petroleum-Derived VOCs									
Benzene	71-43-2	2.6E-01	3.2E-01	3.4E-01	3.3E-01	2.7E-01	2.7E-01	2.9E-01	3.2E-01
Ethylbenzene	100-41-4	1.2E-01	1.9E-01	1.5E-01	1.4E-01	1.6E-01	2.6E-01	3.2E-01	1.9E-01
Naphthalene	91-20-3	1.4E-01	9.0E-02	1.4E-01	1.1E+00	1.9E-01	5.3E-01	3.7E-01	2.4E-01

Wilcoxon-Mann-W	Vhitney Sample	a 1 ve Sar		rison Test for U	i Full	l Data Sata wi	thout MDe	1
		5 1 13 04			incensor i un	Data Sets Wi	mout NDS	
User Selected Option	is!	and a second	manufactory and a second strain of the	n ann ann an	a and a second	$(\delta V^{(1)} \otimes \delta V^{(1)}) = (\delta V^{(1)} \otimes (\delta V^{(1)} \otimes (\delta V^{(1)} \otimes \delta V^{(1)})) = \delta V^{(1)} \otimes (\delta V^{(1)} \otimes (\delta V^{(1)} \otimes \delta V^{(1)}))$	an tea a martificana de la taquan, mara	
Date/Time of Computation	and the second second second	7/24/2023	2.42.37 PM		anto (1979)		and a second	
From File		and the second second second second second	ver Stats_b.xls			and a standard and and a second		
Full Precision	and some a second second second	TASK DITV		Completeness of Mindese strangents,			and the second	
Confidence Coefficient			and advances in the second				and the second	
Substantial Difference	an in the second se	er en	www.managata.comanaanaanaana.any amin'ny amin'ny amin'ny amin'ny amin'ny amin'ny amin'ny amin'ny amin'ny amin'					
Selected Null Hypothesis		an/Modia	n <= Sample 2	Mean/Median (F	form 1)		a na Stean (1995) and and	
			n > Sample 2 M	-	Unit i)			
) Alternative Hypothesis	Cample 1 Me	sani/ivieula	iii ∽ Gampie z w	lean/meulan	and the state of the			
	and an and a state of the state		an a	1 1 1				
Sample 1 Data: OA-PCE	na na hanna ann an ann an ann an an an an an an		na an a	 Hertification contract of the second s	and the second second second second			
the second se	$(\mathbf{r}_{1},\mathbf{r}_{2},\mathbf{r}_{3},$	an a	an a	and the second sec	-1+	·····	1996 - Angel and (1996 - 1996)	ng al yang bahar san tara mangan sa sa sa mana ta
Sample 2 Data: Bld. B-PCE				(and the second s				
	Raw Statistics	-,		na wa wa na sa ang ang ang ang ang ang ang ang ang an	ngal Managal di Pangan (1995) (1995)			
		Sample 1	Sample 2	and a statement of the			_	
Number of Valid Ob	and the second s	4	4					
Number of Valid Ob Number of Distinct Ob		3	4				ar	
the second s	Minimum	0.016	0.019					
	Maximum	0.010	0.019				T e officer: second contractions	-
	Mean	0.019	0.023				Pro	
	Median	0.017	0.021					And the second s
	SD	0.00165	0.021	ter - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	a a construction and a construction of the second sec			
S		1. 1	9.1287E-4					
	SE OI Meall 7	.0711E-4	9.12070-4				(a la particular de la comparticular de	1
Wilcoxon-M	Aann M/hitaau /		ant - and the state of the stat		i 	ne prime la section de la constance de la const	entral terms and terms of the second	1
	lann-Whitney (vvivivv) ie	/ 5l					
H0: Mean/Median of Sample 1 <	- Moon/Medic	a of Comm					t and for web to the product of product of the	n an
		n or samp	ne z	······································	100 - 40 - 100 - 40 - 40 - 40 - 100	und all an experimentation of the		2 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Sample 1 Dank	Cum M/ Stat	10 E		and the second state of th		and the second	(error) Same (and a state of a contraction of	
Sample 1 Rank	WMW U-Stat	10.5	le construction and and and		· · · · · · · · · · · · · · · · · · ·			ļ
		0.5				a Manandana (
	Mean (U) D(U) - Adj ties	8 3.443	e statistica and a subscription of the subscri	Marriel et an a - Jugar componenter		A second se		
		3.443 14	Plantan and an according to an					
WMW U-Stat Critical Standardized			4, 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -				And the forest and the second second	april
		-2.337		$(and (i \in \{i\})) = (and (i \in \{i\}) \in \{i\}) = (and (i \in \{i\})) = (and$				
and a second	mate P-Value	0.99		er Privariante constante des priva des privarias de la constante de	and the state of t			7
Conclusion with Alpha = 0.05	and a second			1 (14) * 15* (1*) (10) (10) (15) (1)	w			
	Complet - Co	male 2	an - and an all more than a straight second	1944 (1947) - 1944 - 1944 (1947) - 1944 (194			19-19-19-19-19-19-19-19-19-19-19-19-19-1	
and a second	painipie 1 <= Sa	mpie ∠					- 1	-
			and the second	ļ.	1	1		1

	hard the second se			1.20	l	le contraction de la contracti	<u> </u>			
1	Wilcoxon-Mann-Wh	nitney Samp	le 1 vs Sar	nple 2 Com	parison Tes	st for Uncer	isor Full D	oata Sets w	/ithout NDs	
3	User Selected Options		an a	and the standard standard stands and	and the second	Made (Marine Concession and Society)		antan at the second second second second	ayan yana mana da sa yang da dagama da kada yang kayang s	
	Date/Time of Computation	ProUCL 5.2	7/24/2023	2:43:20 PM						ele test kat at a second and
	From File	McKinley I-			s	enter contention provide to set of a supply	er er salar son en anne e-sana	ang tang sang sang sang sang sang sang sang s	en al mini a construir e sus transmissiones i sus	
viteret	Full Precision	OFF			10 11010000000000000000000000000000000	and a balance of the state of the state of the state		· · · · · · · · · · · · · · · · · · ·	Consequences and a conservation	Sector States and the sector of the
	Confidence Coefficient	95%	and a star of the second s			an a tha an	e e se i su se cama			
	Substantial Difference	0.000	nation in the days of the Southeast	a general de la companya de la comp	ali in fairi in tana may sea	terre program and the transmission of parameters and the			tan sa ta'an ang sang ang sa	
	Selected Null Hypothesis	Sample 1 M	lean/Media	n <= Sample	2 Mean/Me	edian (Form	1)			
5	Alternative Hypothesis	' Sample 1 M	weet that the training the standard service	-		•			a (anna 4 - anna - a	
1	na se dan na mana ang mang mang mang mang mang		a an			ed antique, cal		agaan had barr oo ah dharaan ah sagaag		and the second sec
2	a second a second s			ana ing kanang mang pang pang pang pang pang pang pang p						1
3	Sample 1 Data: OA-TCE	Non-o-Coloritor (1979) Come, and the	ana ang kanang kanan	Magan I Japan Maranja (se		1	s (= − ================================			
4	Sample 2 Data: Bld. B-TCE	and a second		ning and a second s	izanila dine ve e energia					and the second
5		d and a second	anna (1999-1990) anna (1999-1999) anna (1999-1999) anna (1999-1999) anna (1999-1999) anna (1999-1999) anna (19	an a	in the second					
6	а страница и на и на продокти и страните раз 1 и страните раз 1 и страните раз 1 и страните на продокти и стран При при при при при при при при при при п	Raw Statistic	S	un annaecta d'Alton can Anton Statistica Caracteria anna	and a state of the second s		17-11-11-11-11-11-11-11-11-11-11-11-11-1			
7			Sample 1	Sample 2			1	-	·····	
3	Number of Valid Obs	ervations	4	4			1	l		
9	Number of Distinct Obs	ervations	4	4					(144-6)	
)		Minimum	0.07	0.023						
1		Maximum	0.098	0.17		 	an an an a fair an	and levin anteresting and the	nation in the second seco	
2		Mean	0.0845	0.0778						Conference (10) of contraction (10)
3		Median	0.085	0.059						
4		SD	0.0124	0.0651			1 2. 1924 1937 1937 1937 1937 1937 1937 1937 1937			
5	SE	E of Mean	0.00622	0.0326						
3									and taking the country of the second second	
7	Wilcoxon-Ma	inn-Whitney	(WMW) Te	st						
8			containing of the second system in the	and the set of the layer of the constrained of the		n northeresistant and a second		and some time the second	whereas have been as a surger	
9	H0: Mean/Median of Sample 1 <=	Mean/Media	an of Samp	le 2						
)					and the second second second				e per e a commenciant d'a l'active	
	Sample 1 Rank S				a Constant and the second s		4 9	1		are a second
2		MW U-Stat	11	1.1		needed a survey of the state of	-			
3	00/	Mean (U)	8				-			- 1 - 1 ² - 1 - 1 - 1 - 1 - 1
1 5	SD(WMW U-Stat Critical \	U) - Adj ties	3.464 14							ļ
	Standardized W		0.722		·					
5 7	and a second	ate P-Value	0.722	el i secon e presente de la companya	and the second		1		(Second and a second	(1004) (105)
3			0.200		a an	anna i tri catanonia i tanan ana ana				
9 9	Conclusion with Alpha = 0.05	the Constant States of States and		an a	anan inin a ar an an an an	an a				
0	Do Not Reject H0, Conclude Sa	mple 1 <= S	ample 2	an a						
J 1				10 - martin and a state of the	· · · · · · · · · · · · · · · ·	·				

	Wilcoxon-Mann-Wh	i itnev Samn		nnle 2 Com	narison Te	ast for Lines	nsor Full I	Jata Soto I		
<u>1</u> <u>2</u>		nanoy oanip						Jaia Jeis I	MUIOUL NDS	e. Hanna in it anno 1911
<u>-</u> 3	User Selected Options		and the second second second					· · · · · · · · · · · · · · · · · · ·	and goathers with a follows -	
, t	Date/Time of Computation	ProUCL 5.2	2 7/24/2023	2:43:58 PM						
5	From File	McKinley I-	an and the second s			n freggeste en senar tregar dy gant 1 en		and a second state of the second	ی میں برے اور میں میں میں اور	
3	Full Precision	OFF					********		a and a sum of a sum of the	
7	Confidence Coefficient	95%						and the second		
3	Substantial Difference	0.000	and a state of the second state of the second s			No. Marina and Danasa a	and and a first set of the state of the set	- Andrews and the second statement of the		n martin an
)	Selected Null Hypothesis	Sample 1 M	lean/Media	n <= Sample	e 2 Mean/M	Aedian (Forr	n 1)		an a	
0	Alternative Hypothesis	Sample 1 N						and the state of t		
1		n Server de la construction de la const	a (ana	an menant mant has the manage		and the second sec	Arrow are an and a shake and			
2	and the second se								1	
3	Sample 1 Data: OA-Benzene		Terres (and an an an an a second second second			The second s	n	10	(1)	(
4	Sample 2 Data: Bld. B-Benzene	·	and a second	and an an an international state of the second s	*****	· · ·	****			
5	na na sana na s	electron (1) (2) and (an a	Control Arrow Control of Control	and a second					
6	Free contraction of the contract	Raw Statistic	S			Control (Annual Control of a Destination of the second secon				n na ann an a
7			Sample 1	Sample 2		· · · · · · · · · · · · · · · · · · ·				and and a grade to a second
8	Number of Valid Obs	ervations	4	4					n daar oo daaraa ya Cosada Cosaa Co	
9	Number of Distinct Obs		4	3		1	1		**************************************	not see the second s
)		Minimum	0.26	0.27		1				
1	Ν	Maximum	0.34	0.32						
2 3	 Ferrore and the second sec	Mean	0.313	0.288						
3		Median	0.325	0.28						1
4		SD	0.0359	0.0236			5			
5	SE	of Mean	0.018	0.0118	1					
5										
7	Wilcoxon-Ma	nn-Whitney	(WMW) Te	est			-	and and a second state of the second states		
8									1919	
9	H0: Mean/Median of Sample 1 <=	wean/Media	an or Samp	ne 2						
0	Openals 1 D. 10	Curro MI Ctari	01 5	1	an internet and the second second second	-				
1	Sample 1 Rank S	/MW U-Stat								
2	VV	Mean (U)	11.5 8					_		
3	ו/חפ	U) - Adj ties	8 3.443							A
4 5	WMW U-Stat Critical V		3.443 14			an an in the second second			······	
, ;	Standardized W	A last to an	0.877		Anna y ann agus a tha an Anna Anna an Anna an Anna	1994		· · · · · · · · · · · · · · · · · · ·		
, 7		ate P-Value	0.19							
B	entrary and a second)				and the second		
9 9	Conclusion with Alpha = 0.05	en e	an in the second se	n Light and a second state of the second state of the second state of the second state of the second state of t						
0	Do Not Reject H0, Conclude Sa	mple 1 <= S	ample 2	water with a montain	1999 International In		1997 - 19		• • • • • • • • • • • • • • • • • • •	
1	and and shows the subscription of the first second		and the second second			-	- Provide a second second			

William		1	1	8	1		G				
1	Wilcoxon-Mann-W	/hitney Sam	ple 1 vs Sa	imple 2 Coi	nparison	Test for Un	censor Ful	Data Se	ts without N	NDs	and tax
2		No	and Chargenburgences and and and any second	an fastor and a standard state						and and a local second second	10.0.00
3	User Selected Option	Production of the second second					and an and the state of the sta		-) minestrationalisms ()	Construction of Annual International Annual Sciences	
1	Date/Time of Computation	in the summary of the sum of the summer		3 2:45:02 PM		All second and a second se	1111 - Alger - Alge				
5	From File	McKinley I	-O Risk Dri	ver Stats_b.	xls		and the second second		and an (resonance) of the second s	- and an and all and a sec	-
3	Full Precision	OFF	and the formation of the second s	Province and an end of the second	ann faffar - nad fristan sei eine sein				900 (sariar() area) ar an "see"		
7	Confidence Coefficient	95%	and a second	and a first of the second s						and the second second	
3	Substantial Difference	0.000		an ang ang ang ang ang ang ang ang ang a		an a	elesan on antradaan oo				
Э	Selected Null Hypothesis	Sample 1 M	Mean/Media	an <= Samp	e 2 Mean/	Median (Fo	rm 1)			and the set of the second	
0	Alternative Hypothesis	Sample 1 M	Mean/Media	n > Sample	2 Mean/M	ledian			a a second a	and a second	
1		and an and a standard sector of the	a te anna ann	And the second and the second second second	e e norma de la construcción de la	n (n (n (n () -) gen () gen () (() () -) gen () () () () () () () () () (and a second	and the second sec	$((m_1),((m_2))) = ((((m_1),((m_2),((m_2),(((m_2),(((m_2),(((m_2),((((m_2),((((m_2),(((((m_2),(((((((((((((((((((((((((((((((((((($	e en la manage de la mérique de la de	
2	All all and a second			and a second second second second		1		· · · · · · · · ·		1983 (m. 11) - margaret (m. 11)	
3	Sample 1 Data: OA-Ethylbenzene	•	11 y 2000 (1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	and the second	i			(1999)			
4	Sample 2 Data: Bld. B-Ethylbenze	ene		nder van een een gewoord van die een van die ee		and the second sec				· · · · · · · · · · · · · · · · · · ·	
5		and the first of the second	nije (1993) (1993) – vračna pravna tek	and an original state of the property of the							
6		Raw Statistic	×	and the opposition of the constraints		and an an again		na di Unite ny manana ana ana		and the second	
7	and an		Sample 1	Sample 2	a constant					weight (participation)	
8	Number of Valid Obs	ervations	4	4	(a) (a)(a) (a)(a) (a) (a)(a)(a) (a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(a)(
9	Number of Distinct Obs	ervations	4	4		-	the standard second second second second				-
0	and a second	Minimum	0.12	0.16		1					
1	n —	Maximum	0.19	0.32							
2		Mean	0.15	0.233	} 		energy (and an international second		
3	antennen () – anno mantenne antenne () () () () () () () () () () () () ()	Median	0.145	0.225		- and the second s	the second second second second				
4	an a	SD	0.0294	0.0718		-				Destandaria e a marcadaria e com	
5	SE	E of Mean	0.0147	0.0359		-	-		- The second		
6	na na managana ang kanana na manana kanana kanana na mangkan kanana na mangkan na mangkan na mangkan kanana kan		5.5117	0.0003		-				1. 	
7	Wilcoxon-Ma	nn-Whitney		st			elet internet (Marian - annuar		$\frac{2}{t} = \frac{1}{t} + \frac{1}$	- Manufacture -	
8	ana fan in a fan an a		/	Ψ ι							
	10: Mean/Median of Sample 1 <=	Mean/Media	an of Sama	10.2					the target of the second second		
))		mounnedie	an or Samp		1-1)-200-1-1(21-1)-1-1-1-1						
1	Sample 1 Rank S	Sum W-Stot	11.5		Hannyo V. Jakara and Jakara	and the second s					
2	a second s	/MW U-Stat								1	
3	VV	Mean (U)	1.5 °	ara, e - 1 - 1 - 1							
1	ווחס	U) - Adj ties	8	with the second state of the second							
5	WMW U-Stat Critical V		3.464	and foreigned and a second second second							
	Standardized W		14		1940 m				1		
5	An and a second		-2.033	and the second					-		
/	Approxima	ate P-Value	0.979	a7000 (100 - 1)aan-1000aa	and a second						
3	Conclusion with Alaba - 0.05	and and the second s			They also a second of the	1					
	Conclusion with Alpha = 0.05	1		an - mail francis							
	Do Not Reject H0, Conclude Sa	mple 1 <= S	ample 2								
1		-							And Performance of Strength and Strength	1	

	- Conservation	1	1							
1	Wilcoxon-Mann-Wh	itney Sam	ple 1 vs Sa	ample 2 Co	nparison Te	est for Uncens	sor Full D	ata Sets v	vithout NDs	
2									and a second second	
3	User Selected Options			and an	na na serie da serie				and and a second state of the s	
4	Date/Time of Computation	ProUCL 5.	2 7/24/202	3 2:45:46 PM	Λ					Martin and States and States and
5		McKinley I	-O Risk Dri	ver Stats_b	xls	an a	Contract - Sources - Sources - Sources			~
5		OFF		en an en el arte en ante la mana de la mana en ante en a	and a second	$(f_{i}(z_{i}))_{i}$, we approximate the second state of the second state $(f_{i}(z_{i}))_{i}$			and an an experimental sector (a) and a sector of	-
7	Confidence Coefficient	95%	San Han anno 2000 ann an Anna an Anna an Anna			n The and the construction of the second		Set from the second second second second	and states of some of a states	
3	Substantial Difference	0.000	an a	Marina I Calandar San		· sets multiple and set of the se			an the second	
Э	Selected Null Hypothesis	Sample 1	Mean/Media	an <= Samp	e 2 Mean/M	edian (Form 1)			
0					2 Mean/Mee		6022762270 - 0	·····		and a second second second second
1			an the analysis of the second s	an a	e for a construction of the second state of th	and a manufacture of the second s		complete entry allow	 	
2	and the international state of the international	and a second				1			(11)(1) = (11)(10)(10)(10)(10)(10)(10)(10)(10)(10)	
3	Sample 1 Data: OA-Naphthalene	and a first state of the second		an a	Second			-		
4	Sample 2 Data: Bld. B-Naphthalene	e	and the second	and a second				and the second s	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	
5		and between the first of the set have been set of the	Martin Canada ann an Anna an An	and the second second	al a ser a second a second address and		e a comunate concernant	1		
6	Re	aw Statistic	CS	entrative's construction of			an an an a standard ar ann an an	1		
7	anna a' a' fhannan a' fhannan a' ann ann aite ann a' ann ann a' a' ann ann a'		Sample 1	Sample 2	and the second second second			19 () I		
8	Number of Valid Obse	rvations	4	4				1		
9	Number of Distinct Obse	rvations	3	4	+	1 			e oraș en constant constant en constant en constant e constant e constant e constant e constant e constant e co	
0	ana ao amin'ny tanàna mandritry amin'ny tanàna mandritry amin'ny tanàna mandritry amin'ny tanàna mandritry amin' N	linimum	0.09	0.19				-		
1		aximum	1.1	0.53		angalana Anangalan	an and a star and a			
2	anna an	Mean	0.368	0.333			and an			
3	a apara daganaya isin ina matamata matamata (a) - adalaha dagi matamatan dalamatan sa mana mana mana mana matam	Median	0.14	0.305	and the state of t	-				
4	ner (andre and and a second data to the second of the second second data and the second second second second s	SD	0.489	0.152	Processing and the second		en e			
5	SEc	of Mean	0.244	0.076						
6	and an and a second			for an and the second s	l marting and a substantiant of	n standard and a standard standard to the standard stan	·····	1 	and the second sec	
7	Wilcoxon-Man	n-Whitney	(WMW) Te	est					and the second s	
8	na anang sa sa Pananan yang danakan sa sa mang tang sa			ana	and the second second second states and the second s			10.000		
	H0: Mean/Median of Sample 1 <= N	lean/Media	an of Same	le 2						1
5	and and an and a second s		energian (or - ex) - management	the state of the s					· · · · · · · · · · · · · · · · · · ·	· ·
1	Sample 1 Rank Su	um W-Stat	14	A feedbalan a second problem at			. 0 - 0	Anna mare	+	
2		/W U-Stat	4	and the same split of a strangene station			~	1		
3	Went wells - three we block a second s	Mean (U)	8				n mentangan seri - 100 s			
1	And the Control of the Control of) - Adj ties	3.464			- An and the second	$(1-1)^{-1} = (1-$			
5	WMW U-Stat Critical Va		14	1		(Change Construction of Constr	alan		-	
5	Standardized WM		-1.307							
7	Approximate		0.904	and a standard standa						
3	ana ana amin'ny fisiana amin'ny tanàna amin'ny tanàna amin'ny tanàna amin'ny tanàna amin'ny tanàna amin'ny tanàn I Tanàna			en an		·····	Surger (according to)			-
-	Conclusion with Alpha = 0.05	and a particular constraint and the second state	ay the management of the second s		an media secondaria da ana ana da					- () it must be the
)	Do Not Reject H0, Conclude Sam	ple 1 <= S	ample 2		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -					
				No		real sector and the sector of		anna		

Building C Air Sampling Results McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California

		OA1	OA2	OA3	OA4	IA12	IA13	IA14	IA15	IA16	IA17	IA18	IA19	IA20
Analyte	CAS Number	Chelsea Parking Lot	Main Playground	Southwestern Lawn	Southeastern Playground	Building C Admin Office	Building C Library	Building C Room 102	Building C Room 105	Building C Auditorium	Building C STEM Lab	Building C Basement	Building C Room 202	Building C Boys Bathroom
Chlorinated VOCs														
Tetrachloroethene	127-18-4	1.7E-02	1.6E-02	1.6E-02	1.9E-02	2.8E-02	5.5E-02	3.5E-02	3.4E-02	1.7E-02	1.9E-02	1.8E-02	2.1E-02	2.8E-02
Trichloroethene	79-01-6	7.0E-02	9.1E-02	9.8E-02	7.9E-02	7.8E-02	5.9E-02	7.1E-02	9.0E-02	6.9E-02	5.9E-02	4.8E-02	9.5E-02	4.7E-02
Petroleum-Derived VOCs														
Benzene	71-43-2	2.6E-01	3.2E-01	3.4E-01	3.3E-01	2.9E-01	3.0E-01	1.2E+00	3.3E-01	2.9E-01	2.9E-01	2.8E-01	3.1E-01	2.6E-01
Ethylbenzene	100-41-4	1.2E-01	1.9E-01	1.5E-01	1.4E-01	2.1E-01	1.4E-01	3.5E-01	3.3E-01	1.4E-01	2.0E+00	2.4E-01	2.1E-01	1.2E-01
Naphthalene	91-20-3	1.4E-01	9.0E-02	1.4E-01	1.1E+00	1.7E-01	2.4E-01	2.8E-01	2.1E-01	2.4E-01	2.0E-01	1.6E-01	2.2E-01	1.2E-01

Wilcoxon-Mann-W	/ hitney Samp	i ble 1 vs Sar	nple 2 Comparison	Test for Und	ensor Full	Data Sets v	without NDs	
User Selected Option	IS	en - Onen fan in Grynnegeldene - seldelaas	and the second	all the second sec	en man 1999 a state d'a ser a se antis qu'il a se		in a the Constant Color and the second strategy	and international states and states and
Date/Time of Computation	ProUCL 5.3	2 7/24/2023	2:46:48 PM				··· ···	
From File	McKinley I-	O Risk Driv	er Stats_c.xls	57 mil 10 mil	Construction of the			10000-2000 Par (1 - 30) - 10(1 - 100
Full Precision	OFF	1996. (999.					provide an experimental second s	((eduarda))
Confidence Coefficient	95%		alle and a second more produced and the second and a second second second and the second second second second s		- Anna Anna 116 Anna 1		n an	
Substantial Difference	0.000	and the second second second	na (an ann an	a summaria anna a saada (s)	(1997). (Paddan Sirker	allow the second definition is the second	an a	and the first second
Selected Null Hypothesis	Sample 1 M	/lean/Media	n <= Sample 2 Mear	/Median (Fo	rm 1)			
Alternative Hypothesis	Sample 1 M	/lean/Media	n > Sample 2 Mean/	Median	9444-94		and and an one of a strength of the state of the strength of the strength of the strength of the strength of th	
	an a	nterina (11 - on - 11 - on to repaining a)	(1999) and a second	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	an ann an Anna		a faat bolen ander of words (Alexandra) of se	a
		an an Anna an Anna Anna an Anna						
Sample 1 Data: OA-PCE Sample 2 Data: Bld. C-PCE		and a second	na (na 1920) ann ann ann ann ann ann ann ann ann an	- second from a construction of the second sec		and a second sec	entranti entranti compressione	
Sample 2 Data: Bld. C-PCE	annan an a		anna an	and an and a second		1		Maria and a second s
			an al an					******
	Raw Statistic	s	and the second second second second and a second					
		Sample 1	Sample 2		0.0 (1995) (0.000) (0.	1		
Number of Valid Ob		4	9					and the second sec
Number of Distinct Ob	servations	3	8					
	Minimum	0.016	0.017					
	Maximum	0.019	0.055	nere and the construction of the construction				
	Mean	0.017	0.0283	in the second se		and a set of the set o	Constraint and the second s	i - See a monorariana ana ana ang ang ang ang ang ang ang
	Median	0.0165	0.028					
	SD	0.00141	0.0121		1	ran 19 M		
S	E of Mean	7.0711E-4	0.00402			antin 1		1
~		t in the second second second second		and the second second second		and a second	and the second	and the second sec
Wilcoxon-Ma	ann-Whitney	(WMW) Te	st		n setter in second s			
			unite and a second s				and the second sec	-
H0: Mean/Median of Sample 1 <=	= Mean/Media	an of Sampl	e 2			wanter and a second second second	the first second s	Contraction of Contraction of Contraction (Contraction of Contraction of Contract
Sample 1 Rank	Charles - I where a conjust - Conjunction of the	13				1		
V	WMW U-Stat	3				1		
	Mean (U)	18				1		
	(U) - Adj ties	6.454		1				
WMW U-Stat Critical		29	The second					
Standardized V		-2.405			l		l	
Approxim	nate P-Value	0.992	where the part of	And in the second se	-			a prime and a second by
	National Construction Statement Statement Statement	to the two ways and the total state of the	and the second statement of the statemen	and the second second second second				
Conclusion with Alpha = 0.05	ana ana ana amin' am							
Do Not Reject H0, Conclude Sa	ample 1 <= S	ample 2						

1	Wilcoxon-Mann-Wh	nitney Sam	ple 1 vs Sa	mple 2 Compa	rison Test for L	Jncensor Full	Data Sets v		
2	and of a failed and a second considerable and a second of a failed of a second failed of a second second failed by the fail of a sec	Construction of the Construction of the	na paulonomittes in Construction	na (= 1000 linear) i tradici na siste conforte para segu	n an and a second				9
3	User Selected Options	1	No	and a second		$= -100 \ , \qquad \qquad$		- The constraint - the second second	
4	Date/Time of Computation	ProUCL 5.	2 7/24/2023	2:47:30 PM	en an	N 90100-01	······································		
5	From File	and the set of the set of the set of the		ver Stats_c.xls	9999 (A. S. A. S.		1996-1997 - State Marine, 1997 - 1998	and the state of the same	
3	and a second of the second of	OFF	a an				- 100		an i sa ana ana ana ana
7	Confidence Coefficient	95%	$d^2 d d d^2 = (1 + 1) + $			an a shaka kasa ta sa a ya saya kasa sa sa sa sa sa sa		·····	
3	Substantial Difference	0.000	an an an ann an an an an an an an an an				(man) yes - yes - ne - ne ange		and the second
Э	Selected Null Hypothesis	Sample 1	Mean/Media	n <= Sample 2	Mean/Median (I	Form 1)	ne al la seconda de la seco		
0				n > Sample 2 M				Antonia in adoptionado, cadantes atop	ndiget - Son and a second second
1	(a) 11 perfection of a set of the set of		an a fan i san an a	and a second	Annone and a state of the second	voter		anna i surranna ann (r) a	and the state of the second
2	annangi talangi si sa sa sangan sa sa sa talan si sa	and a second and a second s		aantiinaadaa - saareeystaan oo oo oo oo oo	en anna an stainean ar an stàinean an s		an a		
3 S	Sample 1 Data: OA-TCE		e frank filmen – som film men andere er er forste om filmer	Difference and an and an and an and an					
4 S	ample 2 Data: Bld. C-TCE		le le ada alter de la companya						
5	n en en denne anno Millender, - (195 - 197 Marcel, 1987), en l'Adardel, en la rene president de margane dat Meranander	en errenten Vansenen anderen stande	anna an anna talan a a carta talan	na minana amin'ny fisiana amin'ny fisiana	nethermore in constanting a second constanting of		to a second		
6	R	aw Statistic	s						-
7	anna anna a tha anna anna anna anna anna		Sample 1	Sample 2					
8	Number of Valid Obse	ervations	4	9	1				
9	Number of Distinct Obse	ervations	4	8	· · · · · · · · · · · · · · · · · · ·	ere i e e e e e e e e e e e e e e e e e	and the second sec	e and areas a consequence	·····
5		Ainimum	0.07	0.047				1 	
1	M	aximum	0.098	0.095	non trapport, the second state of the second		e en	· · · · · · · · · · · · · · · · · · ·	
	and a sub-second and an	Mean	0.0845	0.0684			internet and and		- We share the second and the second
3	a) – wy swytowaniana – w wystania – w Martin Chine, a stra – w w wratariana – w Martin Balayniana (mar	Median	0.085	0.069					
2	lan see al anna an ann an ann an ann an an ann an	SD	0.0124	0.017			a		
5	SE	of Mean	0.00622	0.00568		~	a marine in a constant of the second		
5						an a			
7	Wilcoxon-Man	n-Whitney	(WMW) Tes	st					and the state of the second
3	ng Dentanggal ang Pelang ang penggang ang ang penggang ang ang penggang ang penggang ang penggang penggang peng			n n Analytic sector and the sector of the se			and the figure and the		
1	0: Mean/Median of Sample 1 <= N	/lean/Media	an of Sampl	e 2		and a live spectrometry			
)	and an and as a sufficient attraction of a sufficiency for a sufficiency of a sufficiency of a sufficiency of a		P.	an and a star of the second star			000000	and the second second	
	Sample 1 Rank Su	um W-Stat	39	para a immunica-a	Part and a substance.		_		
	and a particular constraint of a second s	/W U-Stat	29						
	www.eee.com.ee.co	Mean (U)	18					1	
	and a second) - Adj ties	6.481			- and the second second second second	n dels signes - second se		
	WMW U-Stat Critical Va		29		and a second		a de la compañía de l		
	Standardized WN		1.622	entrale en contractor à la contractor de		······································			
	Approximate	e P-Value	0.0524						
	. The set τ -equation is constrained to be consistent to an inequality state τ -equation				an ann an the second	1 			
And in course	onclusion with Alpha = 0.05		1999	and an electric state and the second		where the second se			
	Do Not Reject H0, Conclude Sam	ple 1 <= S	ample 2	nite and a second s			an and the second se		
	and a substantial state of the second state of the second state of the second state of the second state of the		mane Xy to other apply and the second		- for an				

1	Wilcoxon-Mann-Whi	itney San	nple 1 vs Sa	ample 2 Co	mparisor	Test for L	Incensor Er	II Data Cot	o without *	ID-	
2	na na sense		a Annalda - Sana an Annalda - Sana - Sana		- anoor		neonaul ru		s without N	il)S	
3	User Selected Options	Construction of the second second	a de la companya de l	an de margen en en en anternet		and and the second s	and a second			and a second second and assumed	
1	Date/Time of Computation	ProUCL 5	5.2 7/24/202	3 2:48:34 F	М				and the second		
5		and a series in the second sec	I-O Risk Dri			and the second second second second	and a second second second		and a successive and a successive section		
5	The second	OFF	an and a second s	ANUT			and the second sec	and the second strengtheners			
7	Confidence Coefficient	95%	and a second	antipolitica ana amin'ny fivondrona	ter en ante en la ser atra en espe		an a				
3	Substantial Difference	0.000	and a second	there a showing a second state of	an a	(m) = ((max) =			·····		
Э	Selected Null Hypothesis	Sample 1	Mean/Media	an <= Sam	ole 2 Mea	n/Median (F	Form 1)			and the state of the state of the state	
0			Mean/Media				sini 1)	and where the management	an a		
1			an a	an hann i an	nines e chere l'estantes d'anné i		alian and the solution of the state of the state of the	CONTRACTOR STREET	ana matana na panjama		
2			an a	- Contraction of the second							
3	Sample 1 Data: OA-Benzene	The second second second second	and an end of the state of the	and the state of the second of the second			·····				
4	Sample 2 Data: Bld. C-Benzene	9796	an a	And an and the second			and a straight of the				
5	nennennen an annan ar an annan a marrier an ar Arta Arta an annan an an Arta an Arta an Arta an Arta an Arta a	Ann an a	and an a state of an and a state of a state								
6	Ra	w Statisti	cs	na na mangang ng pang na mang ng pang n	Constantine Constantine Constantine	er her mennen i f	and a second sec	1	an a	949.00	
7	and a second	annan an a	Sample 1	Sample 2	nadarian , be box,				• • • • • • • • • • • • • • • • • • •		- ab il mo
8	Number of Valid Obser		4	9	and the second s			·····			
9	Number of Distinct Obser	rvations	4	7		an			and the second s	-	
0	M	linimum	0.26	0.26			an (at any at a				
1	Ma	aximum	0.34	1.2	Carlos (1997) - State (1997) - State (1997)	 S = (1 + a) + (1 + a) (not (n) + (not (n))) 	en e				
2		Mean	0.313	0.394	1	- (mpartus, success)	1999	man and a state of the state of		and the second s	-
3		Median	0.325	0.29						and the second s	
4		SD	0.0359	0.303		All and a second s	Physical and the second s				
5	SE o	of Mean	0.018	0.101		and the second second	man (m) i m an	· · · · · · · · · · · · · · · · · · ·			
5			and a second		n a an	Allowers (1) - Sector - Sector	anti an ann an Anna an Anna an Anna				
7	Wilcoxon-Manr	n-Whitney	(WMW) Te	est		and the second s	energia de la composición de la composi Esta de la composición		And a second	· · · · · · · · · · · · · · · · · · ·	-
3						and the second matrix of the second second	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	n (nef Yine and a second se	······		
-	H0: Mean/Median of Sample 1 <= M	ean/Medi	an of Samp	le 2	and other constructions	1	and a start of the second s		i i		
)	er forste gener for generation of the second s					(m) - frankriger - Langer	1117-11111 (Second Color-			 stream > -1 = -ac t = -1 = -ac 	
	Sample 1 Rank Su		0					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		······································	-
	And a second statement of the second s	W U-Stat				Î		and a second			
	The second s	Mean (U)	Annual and a second second second	140 - 111 - 1						Carded a strength of the last	
-		- Adj ties								Contraction of the second s	
	WMW U-Stat Critical Val						M		and a second	er en franzisco en	
-	Standardized WM										- 145
-	Approximate	P-Value	0.242				1				
	Conclusion with Alaba - 0.05	and the subscription of the subscription of	and an		101-	- Company and the other second second					
	Conclusion with Alpha = 0.05	1			1995 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -						
	Do Not Reject H0, Conclude Samp	Die 1 <= S	ample 2			-					-
						Ĵ.				1 1	

1	Wilcoxon-Mann-W	/hitney Sam	ple 1 vs Sa	ample 2 Cor	nparison T	est for Un	censor Ful	I Data So	te without	NDo	
2		(University of the standard second second	Notes a transmission of the second					Data 30	is without	NDS	
3	User Selected Options	S			- You and a set of the second descent	an and an an an an an an an an an					-
1	Date/Time of Computation	ProUCL 5.	2 7/24/202	3 2:49:13 PM	1						
5	From File	the Name and Address of the Address of the Owner of the O		iver Stats_c.				and a second state of the second state of the	·······		
5	Full Precision	OFF							and a second state of the second	an an an an an an an an an	-
7	Confidence Coefficient	95%	$\alpha = \exp\{i(1+i\alpha_{1}), (1+i\alpha_{2}), \exp\{i(1+i\alpha_{2}), (1+i\alpha_{2}), \exp\{i(1+i\alpha_{2}), \exp\{i(1+$	ener er vert anteren er eren	Construction (construction)			·		0-1-00-2-0	
3	Substantial Difference	0.000	- Southern and the second second	An	and the second sec	dan sa sa ta sa				······	
3	Selected Null Hypothesis	Sample 1	Mean/Media	an <= Sampl	- 2 Mean/M	Andian (Ea	m 1)			With the second second second second	
0	Alternative Hypothesis	Sample 1 M	Mean/Media	an > Sample	2 Mean/M	adian	m i)				
1	en men men an					501011	el an an an an an an an an				
2	na ana ao amin'ny tanàna mandritry amin' amin	ad an endowing the transmission of the second s		and the second	-						
3 S	ample 1 Data: OA-Ethylbenzene)	When the state of	a second s	and a state of the second s	a normal defenses on the second s	and the second second second			and the second second	
demonstration of the second	ample 2 Data: Bld. C-Ethylbenze		and the second second second second		anna an an an an an a	areas and the second					
5	en en la management de la		and the second		1999-1999 - J. Harrison (m. 1999)					and the second s	
3		Raw Statistic	s	er just her het het en en en en er besterne just	Martin and State and State	and in the first state of the second	11111		and the second s		
7	n (* 1999) - San (* 1997) - Frank State Steamer (* 1999) - San (* 1997) - San (* 1997) - San (* 1997) - San (* 1997)		Sample 1	Sample 2		e a su su su su su su					
3	Number of Valid Obs	ervations	4	9		and the second s			141		
2	Number of Distinct Obs		4	7	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
)	and an an an an an and an	Minimum	0.12	0.12			ener anna an anna an an an an an an an an an				
	an a	Maximum	0.19	2	where we and confictions are a						
2	and a summittee and a start of the first of the start of the	Mean	0.15	0.416	Secondar			1010 - 10 - 100 - 100			
3	and the second sec	Median	0.145	0.410	and the state of the						
		SD	0.0294	0.21		1	P. States of the second				
5	SE	of Mean	0.0234	0.0							
\$			515171	U.Z	and the second						
	Wilcoxon-Mar	nn-Whitney		et	and the second s		1		and the second		
			(******) 16								
201	: Mean/Median of Sample 1 <=	Mean/Media	n of Samo	le 2	and the second						
	Annual of constant of the control of the comparison of the state of the control of the state of		or oamp	·····	-)				and the second	(measured)	
	Sample 1 Rank S	um W-Stat	18.5	1400	a in a second concernant	-					
	and the second se	MW U-Stat	8.5			and the second s	1			Construction and Division And	
1	annan an a	Mean (U)	18		ана (т. 1948) 1949 — Саландан (т. 1949) 1949 — Саландан (т. 1949)						
	SD/U	J) - Adj ties	6.436	and the state of t	and the second		1		- years		
	WMW U-Stat Critical Va		29				1				
1	Standardized WM		-1.556	1000 (100)		1					
-	Approximat		0.94	· · · · · · · · · · · · · · · · · · ·			s James en la companya -		······································		- 2442
	and a final sector of the sect										
Co	nclusion with Alpha = 0.05	an a	a and a second second second second	an an air a thair an san ' - Trainighte an a							
and many	Do Not Reject H0, Conclude Sam	nple 1 <= Sa	mple 2	an and a second se			J.				N=(11)
							10.00 (m) - (m) - (m) - (m) - (m)				

	Wilcoxon-Mann-W	nitney San	nple 1 vs Sa	ample 2 Com	parison Tes	for Uncenso	r Full Data	Sote without		(saw () show () saw			
2			n film - magnetic setter (and) and also							-0-0.554			
3	User Selected Options		an a	and a second	ter - Distance	an a station of the second	and a second state of the						
4	Date/Time of Computation	ProUCL 5	5.2 7/24/2023	3 2:49:49 PM	ana	an the selection of the second of		and a state of the state of the state of the	· · · · · · · · · · · · · · · · · · ·				
5	From File			ver Stats_c.x	S	1997 - Series Constanting of the series of t		alessa sa ana ana ara ara ara					
3	Full Precision	OFF	12	Salaritan		and an experimental in a spin or the second state of the							
7	Confidence Coefficient	95%	6										
3	Substantial Difference	0.000	200										
3	Selected Null Hypothesis	Sample 1	Mean/Media	an <= Sample	2 Mean/Mea	lian (Form 1)			1				
0				an > Sample 2			an a		and the second sec				
1			an a		anna an train franciscus (an Sanat (an S	and the second sec	and a stopping the second second second	and the second	and the second				
2	and a second	al			1		and the second sec						
3	Sample 1 Data: OA-Naphthalene	and a straight of the second second second		na ione, e		·····							
4	Sample 2 Data: Bld. C-Naphthalen	е	ene legal (la sur un geografication e g		and a second on the second	en anteres anteres estadores en anteres (marite in the second se					
5			na panan na na kataona kata katao katao	and the first second strengthen as the second s		j	· · · · · · · · · · · · · · · · · · ·						
6	R	aw Statisti	ics	na ina manjangka kara ana manakana				1	name and the second	e			
7			Sample 1	Sample 2				an a	1				
8	Number of Valid Obse		4	9					annen - ann anna an an an an a				
9	Number of Distinct Obse	ervations	3	8					ana ana ana ana ana amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'n				
0	<u> </u>	/linimum	0.09	0.12		· · · · · · · · · · · · · · · · · · ·		·····	w. w				
1	M	aximum	1.1	0.28		a second a second second second							
2		Mean	0.368	0.204		Contractor (1994) and a second s			Service and the second second				
3		Median	0.14	0.21					· · · · · · · · · · · · · · · · · · ·				
4		SD	0.489	0.0485	······································	C · D'Allenani - Second and a second	$(m)^{1/2} = (1111) = (m)^{1/2} h^{1/2} = \int_{-\infty}^{+\infty} (m)^{1/2} h^{1/2} = \int_{-\infty}^{+\infty} (m)^{1/2} h^{1/2} = h^{1/2} h^{1/2} h^{1/2} = h^{1/2} h^{1/2} h^{1/2} h^{1/2} = h^{1/2} h^{1/2}$			-			
5	SE	of Mean	0.244	0.0162		and a second			with summer (
3		a de la constantina d	al an	for any constraint of the second									
7	Wilcoxon-Man	n-Whitney	(WMW) Te	st	an a	n	(and a state of the state of th						
3				and the second sec									
)	H0: Mean/Median of Sample 1 <= N	lean/Medi	an of Samp	le 2	 1. manufacture and Settlemethy and the set 								
)			and had a set of the s										
-	Sample 1 Rank Su			and the set of the set		1							
2	WM	/W U-Stat				and the second sec							
5	and a second	Mean (U)											
_	and the second state and the) - Adj ties				and an experiment of the second s	$= \left(\left(\partial \Psi (-\partial u) \right) + \left((1 - \partial \Psi (u)) - (u - u) \right) \right)$						
	WMW U-Stat Critical Va				·····			·····	Restriction (1) and (1				
-	Standardized WM	and a summer of the second	- I Central and a constant and a		and an	1	in the second						
1	Approximate	e P-Value	0.877		1	Maria and Antonio		- more second on the second seco	and the second sec				
	an waard al a se an								Armen a subscription and a subscription				
	Conclusion with Alpha = 0.05					and the second sec	· · · · · · · · · · · · · · · · · · ·	and and a second product states and a second state of the second states and a second state of the second states					
	Do Not Reject H0, Conclude Sam	ple 1 <= S	Sample 2						n () i a ann ann an tha an tha ann an tha an tha an tha ann an tha				
									and a second sec				

Building D Air Sampling Results McKinley Elementary School 2401 Santa Monica Boulevard, Santa Monica, California

		OA1	OA2	OA3	OA4	IA1	IA2	IA3	IA3 DUP
		Chelsea Parking Lot	Main Playground	Southwestern Lawn	Southeastern Playground	Building D Room 71D	Building D Room 70	Building D Room 71	Building D Room 71
Analyte	CAS Number								
Chlorinated VOCs									
Tetrachloroethene	127-18-4	1.7E-02	1.6E-02	1.6E-02	1.9E-02	1.2E-01	1.0E-01	1.5E-01	1.5E-01
Trichloroethene	79-01-6	7.0E-02	9.1E-02	9.8E-02	7.9E-02	6.7E-02	6.6E-02	9.0E-02	8.7E-02
Petroleum-Derived VOCs									
Benzene	71-43-2	2.6E-01	3.2E-01	3.4E-01	3.3E-01	2.9E-01	3.0E-01	3.2E-01	3.1E-01
Ethylbenzene	100-41-4	1.2E-01	1.9E-01	1.5E-01	1.4E-01	2.0E-01	1.9E-01	1.9E-01	2.0E-01
Naphthalene	91-20-3	1.4E-01	9.0E-02	1.4E-01	1.1E+00	3.3E-01	3.6E-01	3.6E-01	3.5E-01

1	Wilcoxon-Mann-Whitne	y Sam) ple 1 vs San	nple 2 Compa	irison Test for Und	ensor Full E	ata Sets wit	hout NDs	<u>l</u>
			1999 - Campbol Parlametric (1999) - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999			nnaan maayoo ah oroot haaaaaaaa ah		e na anna anns anns anns	
1:	User Selected Options			an an ann an	and a the first providing the solution of the	alaman di man	and a failer of a second second second	an internet in ander all and a second se	$(p(1)^{1,\dots,m},(p(n)^{k},1+1)(p_{k})) \rightarrow 0 \rightarrow (p(1)^{1,\dots,m},(p(1)^{k}))$
	Date/Time of Computation Pro	UCL 5.	2 7/24/2023	2:37:18 PM	and the fact of the second state of the second		Northan Service State of Constant Universidad		
	From File Mc	Kinley I	-O Risk Driv	er Stats_a.xls	in the second				
	Full Precision OF	F		and and the second second of the second s	an 1 - Mark Market - An ann an Anna an Angar - Anna a' Anna an Anna an Anna	and an an an and an an an and an	al an ann to a praint, and	anal), aanaan aya) shaqaan ayale.	
	Confidence Coefficient 959	6					an ann an an Anna an Anna an Anna		
	Substantial Difference 0.0	00			and the second		and the second	anne anna anna anna anna	
	Selected Null Hypothesis Sar	nple 1 l	Mean/Media	n <= Sample 2	Mean/Median (Fo	rm 1)			
0	Alternative Hypothesis Sar	nple 1 l	Mean/Media	n > Sample 2 I	Mean/Median		and a second	The star Person Sparts (They) are a Perform	
1	and the second	- 1947-9949 (1979-1979) (1979-1989)	an ann an tha ann an ann an 17 an an 1860.	ann ann an t-fhar a' a' th' ann baga is tana agus ann an	and and a summer of the second se	1	an a	antintin'i Print Mc San (Chinabay)	
2									
3 S	Sample 1 Data: OA-PCE		armanian an an an an ann an an an an an an an	anan ang katalon panan katalon di	and the second	sa ang tigteri ang tigterigan.			-
4 S	Sample 2 Data: Bld. A-PCE		and the second second second second second second	and a second				1	
5			nie znach za star za star za star za star za star star star star star star star sta	an (an a' the second				n e	7
3	Raw	Statisti	CS	n en general palas del regionegne degeneral es second de secon					
7			Sample 1	Sample 2		1			
3	Number of Valid Observa	tions	4	4				and a feature an announce and a second s	
9	Number of Distinct Observa	tions	3	3	dan olar ing solution and solution a				
c	Mini	mum	0.016	0.018					
1	Maxi	mum	0.019	0.031					-
2	ľ	Nean	0.017	0.0228			n han a star and a star		
	Me	edian	0.0165	0.021	2	1	- d ¹	1	
4		SD	0.00141	0.00618	Conservation of the second				
5	SE of I	Mean	7.0711E-4	0.00309					
6			nalise service service, success succession	an ar provinsi Anito Santo Madaaa aa ahaa ay				$(200) A_{1}^{2}(\alpha) + (1+1) \alpha A_{1}^{2}(\alpha) +$	
7	Wilcoxon-Mann-V	Whitney	y (WMW) Te	st					
8					and a second	(100)))		and the second s	1
9 H	I0: Mean/Median of Sample 1 <= Mea	an/Med	ian of Samp	le 2			and a second s	The second se	1
5						· · · · · · · · · · · · · · · · · · ·			
1	Sample 1 Rank Sum	W-Stat	t 12						
2	WMW	U-Stat	t 2	11000-111		8		1	
3	М	ean (U)	8						
1	SD(U) -	Adj ties	3.443	(and the second se	1		1-1+3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4		
5	WMW U-Stat Critical Value	e (0.05)	14						1
5	Standardized WMW	U-Stat	t -1.899						
7	Approximate I	-Value	0.971						
3			and the second						
9 C	Conclusion with Alpha = 0.05	Construction of Construction		fill a fight of a second s					
C	Do Not Reject H0, Conclude Sampl	e 1 <=	Sample 2						
1		and the second	and training any second s	nan na shi ka shi k					1

and a first distant in the second	ann-Whitney Sam	a na an						
User Selected (Options	a a second and the second s	$(1, \dots, 1)$. We can set the set of the set	an an an gun an Maria an gun an Anna Ar an anna a Standard an An	and the subscription of the			
Date/Time of Compu	-	2 7/24/2023	2:39:00 PM	an	······································			
and the state of the	ANALY CONTRACT AND ADDRESS AND ADDRESS		ver Stats_a.xls			·······		
Full Pred	The second s					anna an an anna an an	a an	
Confidence Coeff			anna an an an an an an an ann ann ann a		·····		an a	- 11
Substantial Differ	water on the state of the state	there is a set of $\mathcal{L}^{2,\infty}_{\mathcal{T}}$ with the operative \mathcal{M}	the consequence of the second s	and a support of the Addition of the State of Concerning Concerning States				
Selected Null Hypot	hesis Sample 1 M	/lean/Media	n <= Sample 2 Me	an/Median (For	m 1)		Westman	
) Alternative Hypot	manufacture and second and second and second		n > Sample 2 Mea			NAN (N. 2011) Son (Leaning Lange & Market Son (1997) Son (1997)	a de la companya de l	
	and a second	- and the second s	and the second			and the subscription of the sector spacing actions	kon - ara e andre a e	
2	anna an ann ann an an an an an an an an					1	4	
3 Sample 1 Data: OA-TCE	an be a second provident of the second descence of second descences of the second descence of the second des				· · · · · · · · · · · · · · · · · ·			1
Sample 2 Data: Bld. A-TCE	and (1) (1) - and (2) (1) provide a state of the first of the first of the state of	an a		1999,000	1	and the second s		1
	and any post of the second states of the second sta	- falan antar antar - a						
	Raw Statistic	x	$\label{eq:product} = \int_{\mathbb{R}^{d}} \partial f_{ij} = \int_{\mathbb{R}^{d}} \partial f_{i$	er og en			ļ	
1. 1.		Sample 1	Sample 2		ser i se l'anne i 10 dans communeration			
the second	lid Observations	4	4					101 Sec
Number of Distin		4	4		10 10 10 10 10 10 10 10 10 10 10 10 10 1			
in a second s	Minimum	0.07	0.03					
	Maximum	0.098	0.085					
	Mean	0.0845	0.06				a an anna an	
a provinsi bayan na manana a sa	Median	0.085	0.0625	a an and a particulation of the second			والمراغل بغريين معاقبوه	ļ
	SD	0.0124	0.0286	k D natel stan adam an an anaratana			and the second state of the second states	
	SE of Mean	0.00622	0.0143	and the second			9 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
an anna an anna an an an an an an an an	an a	U.UUULL		not star much me small stars a same			1	
	on-Mann-Whitney	(WMW) Te	st	en remaining of a construction of the second		and a subscription of the		
		(an and a state of the second state of the seco	needed to a second produce of the	- Stantanan kasar syste		And a construction of the construction	
H0: Mean/Median of Sample	e 1 <= Mean/Media	an of Samp	le 2	an and the second statement of the second			-	·
				al and a second		-		
and a second second state and the second	Rank Sum W-Stat	22	and a state of the second s]		a	
	WMW U-Stat	12			and and the second second second	-	1	
	Mean (U)	8						
	SD(U) - Adj ties	3.464	etwaren over president and and		-			
WMW U-Stat C	ritical Value (0.05)	14	·····				and the second	
	ized WMW U-Stat	1.01	an an attend to an an an and a start of a start of					
	proximate P-Value	0.156				an ta an an An Demonstration and the analysis of the	Alder - The State State State	10. 1. 1. 11. Add.
			1				(a	
Conclusion with Alpha = 0.0	5	Construction (or set () or 2 and () or 2						
Do Not Reject H0, Conclu		ample 2	na na kanan manga kant pana ana ang manga	ing the product of the second se				
and a strange to be descent of the strange of the s			and a second	a second a second se	-			
1				1	1			

Wilcoxon-Mann-V	<u> </u>			l		- Inclusion		
	whitney Sample	1 vs Sa	mple 2 Compari	son Test for Un	censor Full E	Data Sets wi	thout NDs	en de Alexandri en
2			an an ann ann ann an Ann Ann Ann an Ann an Anna.	. Martin and an all the second	and the second process of the second se			
User Selected Option	1	0 1 0000	0.00 50 51					
Date/Time of Computation	Law							
From File		Risk Driv	/er Stats_a.xls					
Full Precision		Selection of the second second						
Confidence Coefficient								
Substantial Difference			an in the second second part of the second					
Selected Null Hypothesis			n <= Sample 2 N		rm 1)		and all a second se	
) Alternative Hypothesis	Sample 1 Mea	an/Media	n > Sample 2 Me	an/Median	INVESTIGATION OF THE OWNER OF THE			
2		estad and a plant strong						
Connected in a stand of the sta		and a state of the	and the second	a second a second a second a second a second a second		1		
3 Sample 1 Data: OA-Benzene	and the second		and a second data is a second s	Always and a second				
Sample 2 Data: Bld. A-Benzene	and a the state of the second s	an an a suite an	and a state of the second s	and the second	-	1		
5	D	n and a second se	anonation of a subsequence of the		and the second s			
	Raw Statistics		<u> </u>					1
Number of Volta O		ample 1	Sample 2					
Number of Valid Ob		4	4					
Number of Distinct Ob	manger	4	4	1				
and the second	Minimum	0.26	0.23	Antonio de la com				
	Maximum	0.34	0.56					
	Mean	0.313	0.34	- Demonstration At a construction of the				
	Median	0.325	0.285	Alternation and the Alternation and				
need to an		0.0359	0.149		_			
and the second	SE of Mean	0.018	0.0745					
11/1								
	lann-Whitney (W	/MW) Te	st					
H0: Moon/Median of Completion							and the second second second second	No.
H0: Mean/Median of Sample 1 <	= wean/Median	of Samp	le 2	newspannenska Santo - an Indoneska Santo - an				
Sample 1 Rank	O. W. O. J	~~	and the second		1000000 per la constanta de la	and the second s		1
	Sum W-Stat							
		10	and the state of the			n () () - Sense		
and a second	Mean (U)	8	a se an		tained by a second second second	A server and the same server and the server and the	1	
a construction of the second design of the second design of the second design of the second design of the second	O(U) - Adj ties	3.464	Na and the second s	1				
WMW U-Stat Critical Standardized V	treating and the second s	14	and an extended on the state of		n	1	1	
		0.433	terre contraction of the first field from () () () () () () () () () (african and and a survey	
nin	nate P-Value	0.333	Market and State (1994), 1994 and 2004 parts				-	l
Conclusion with Alpha = 0.05		an ang salan sang sang sang sang sang sang sa	Annes - Anno 1911 - Henrik Managari, Athan				1	
······································	ompla 1 <- 0	nlo 0	an tanan sa			and the second		
and the second	ample 1 <= Sam	ihie Z	the state and state and state and state and		_	An open of the line balls and the second second		
						Annual (1) (1	

	Wilcoxon-Mann-Whi	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -		an (in part of the second	1						(*)=()
3	User Selected Options	(+ c -) () in the many second () are made () are second	 Control of the second seco	$\label{eq:product} \begin{split} & \operatorname{Pol}(\mathbf{I}(A, t^{(1)}), \cdots, t^{(n)}) = X_{i}(t), \operatorname{prod}(t, t^{(1)}) = \operatorname{prod}(t, t^{(1)}) \\ & $	(1000000000000000000000000000000000000	e de la completada en la c			and particular contraction (see) - 1.1/2		· · · · · · · · · · · · · · · · · · ·
F	Date/Time of Computation	ProUCL 5.	2 7/24/2023	3 2:40:32 PN	1			a - mare addression includes			
5	the second s			ver Stats_a.		1 - Santa			an a		
3	and the second	OFF		- I merel (Prant King or a second second second		entre Baarten en onder stad (som en e	ne data a su	Sound State South as the October State State of the second state			
7	Confidence Coefficient	95%									
3	Substantial Difference (0.000	·····	and an a second of the second state of parameters and							
)	Selected Null Hypothesis	Sample 1 M	/lean/Media	in <= Sampl	e 2 Mean/M	ledian (For	rm 1)	the figure in the states	1		
0				in > Sample						and the second s	
1	ner i normen provensi nerve i normen provinsi na normen territari e se prime en tre se prime en tre se e se se	an a	Parties and a second primary date of a sub-		and the present of the state of		ella Providencia (1977)	The second s		an a	
2	and and a province of the second s	1.00.000 million				1	-				
3	Sample 1 Data: OA-Ethylbenzene			and the second	A COMPANY AND A COMPANY						
4 3	Sample 2 Data: Bld. A-Ethylbenzen	e	and the state of the second state of the secon	an anna an staiste an agus agus ag	(adder and a grant and a second s						
5	an a		ang ang sang sang sang sang sang sang sa		and and and a summer				and an and the second second		
6	Ra	w Statistic	s		Contraction (Contraction)	1			· · · · · · · · · · · · · · · · · · ·		
7			Sample 1	Sample 2					restored to restantial to a second particular and a se		
3	Number of Valid Obser	vations	4	4	1		HANGE AND STREET STREET, STREE				~~~
3	Number of Distinct Obser	vations	4	4	· · · · · · · · · · · · · · · · · · ·		et terre alle banket soll en er er gemeenten er e			1997 - 19	
5	M	inimum	0.12	0.17		-		and the formed of the state of			
1	Ma	aximum	0.19	0.3	5 5	1					
2		Mean	0.15	0.238	anna ann a commu						
3	and have a second of the second se	Median	0.145	0.24	a an an the second s						~ ~ ~
	n a na ann an ann an ann an ann an ann an a	SD	0.0294	0.0538	and the second second second second	contraction in the second			100 million and a substantia and a substantia		
5	SEo	f Mean	0.0147	0.0269							
;	nenny provinsional – Alexandro en alexandro de la construction de la construcción de la construcción de la const		and a second	an a	nan can inan	And Antonia antonia antonia antonia antonia antonia antonia antonia antonia an					
	Wilcoxon-Manr	-Whitney	(WMW) Te	st	and a second		-			Contraction of the American	nii/p/w-
	nastanan oo saraa ahaanaa kaanaa iyo ahaa ahaanaa iyo ahaa ahaa ahaa ahaa ahaa ahaa ahaa ah	and the second					1				
ПН	IO: Mean/Median of Sample 1 <= M	ean/Media	an of Samp	le 2	 Second and a particular state 	and the second second			• · · · · · · · · · · · · · · · · · · ·		
	an a' fan en gerene fan in de fan en fan it fan en fan en fan en fan en fan de fan de fan en fan de fan en fan					-				Are and any second second	
	Sample 1 Rank Su	m W-Stat	11	11)	ala (2 - 2 - 2) projektiva se se sjene (
	WM	W U-Stat	1		antine				- 1		
	an and an and a second s	Mean (U)	8	10 - 11							
	SD(U)	- Adj ties	3.464	and you - age in a generation of the second s	and the second		and the first subscription of the		(a) and (a)	- · · · · · · · · · · · · · · · · · · ·	
	WMW U-Stat Critical Val	ue (0.05)	14		·~	2	a		the set of the second		
	Standardized WM	W U-Stat	-2.165								etition -
	Approximate	P-Value	0.985	-Actor on Archiel at the second sec				ar ya a shara a			
	 A strategy of a strategy of a strategy of a strategy of the strat			and the second sec		antesan (traja permutana permutan	1				~~~~
C	onclusion with Alpha = 0.05			and an and the second se				In the American Street			
	Do Not Reject H0, Conclude Samp	ole 1 <= Sa	ample 2	all Martin and a second state of the second st			1			and the second sec	
		ant that we are being of the series of the particular of	e sudante en la completa en la completa		and a second	and the second	7				

	JARL	4	-			1	1	1	
)	Wilcoxon-Mann-Wi	nitney Sam	ple 1 vs Sa	ample 2 Comp	arison Test for	Uncensor Full	Data Sets v	vithout NDs	
2	User Selected Options			e - Ester - Sector (Sector) and the second differences	and strain, and so contaction would do a	of sheeting to be an an an an an an			na na shift (M () San (S (San an San an San San San
-	Date/Time of Computation		0 7/0 4/00-	-	North Antonia and a state of the				
+	new construction of a second biological second s	from to a second and a	PURSHeat Martin and the second standard (New	3 2:41:08 PM				and the second	
5	From File		-O Risk Dri	ver Stats_a.xl	\$				
5	Full Precision	OFF		and the second					
7	Confidence Coefficient	95%	alternally contractions (see a) constant	and the set of the second second second second second				- 10	······································
3	Substantial Difference	0.000							and the second
}	Selected Null Hypothesis				2 Mean/Median (Form 1)		and an and the constraint of the second	and the subscription of the second
0	Alternative Hypothesis	Sample 1 M	/lean/Media	an > Sample 2	Mean/Median			hall (an ann an Arrange) (an Arrange) (an Arrange)	
1									
2			Performance in the Second and an				1	·····	
3	Sample 1 Data: OA-Naphthalene	0 m						181 - Pierre	
4	Sample 2 Data: Bld. A-Naphthaler	ie						and a state of the	
5	and a set of the second sec		NATIONAL CONTRACTOR OF A DESCRIPTION	10 (10 (10 (10 (10 (10 (10 (10 (Summer and the second		
6	R	aw Statistic	a la companya de la c	- 104 104 104 104 104 104					
7	and and a more description of the second Marcel and a second second second second second second second second s	and a subscription of the state	Sample 1	Sample 2		and a second sec			
8	Number of Valid Obse		4	4			1		-
9	Number of Distinct Obse		3	4	and the second sec			and the first part of the second s	
0		Minimum	0.09	0.15					
1	N	laximum	1.1	0.39	The Development of the second s	*******	an an an an an Albert an an an an an an		
2		Mean	0.368	0.26	an a			-	en en el la companya de la companya
3		Median	0.14	0.25	and the second sec	(* 1+ 34mm);			
1		SD	0.489	0.1				-	
5	SE	of Mean	0.244	0.05		······································			with the second
3			9 Millionformine (pressured) in a transmission descent start pre- toring of the second star	te provinsi se			· · · · · · · · · · · · · · · · · · ·	1	
7	Wilcoxon-Mar	nn-Whitney	(WMW) Te	st			e (1999) e (1997) e (in the second se	
}			No. 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 2010 - 20				in the second		
)	H0: Mean/Median of Sample 1 <= I	Mean/Media	an of Samp	le 2	an a		an a		
)		anna a star anna a stàr				·····			and the second constraint of the second s
	Sample 1 Rank S	um W-Stat	14	The second se		and the second sec			
	W	MW U-Stat	4			e and hitter	1		
	an alleria and an	Mean (U)	8		ner en lesere en			-	
	SD(U) - Adj ties	3.464		and the second sec	man and a second second			
	WMW U-Stat Critical Va	alue (0.05)	14						
	Standardized WM	AW U-Stat	-1.307	- We would be true to the second s	an ann an an an an an an ann an an ann an a			-	- Las
	Approxima	te P-Value	0.904	and the second sec	A second s		in a second seco		
			anna - Arany Annae (Arang - Comercia)	1999-1997 - 1979-1996 - 1996 - 1996 - 1996 - 1996 - 1996 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199					-
	Conclusion with Alpha = 0.05		an a	an a	was and a second of a	and the second sec		1997	
	Do Not Reject H0, Conclude San	nple 1 <= Sa	ample 2	an 1997 an					
	and the second	anton ana ang ang ang ang ang ang ang ang an	nation is require the contract contract			and the second sec	· · · · · · · · · · · · · · · · · · ·		