



**AFRL-SA-WP-TR-2023-0009**

# **Interim Report, Missile Community Cancer Study, Minot Air Force Base, Round 1 Results**



**Lt Col Scott M. Boyd  
Occupational & Environmental Health Department**

**Report Date  
16 November 2023**



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16 November 2023

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FROM: DCPH-D/OE  
2510 Fifth Street, Building 840  
WPAFB OH 45433-7913

SUBJECT: Consultative Letter, AFRL-SA-WP-TR-2023-0009, Missileer Cancer Study, Minot Air Force Base (AFB) Round I Results

References: (a) Emily C. Arceo, *Technical Guide for Indoor Air Quality Surveys* (OH: Air Force Research Laboratory, 2014), pp 4, 6 & 9.

(b) American Conference of Governmental Industrial Hygienists, *2023 Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices* (OH: ACGIH, 2023), 19.

(c) American Conference of Governmental Industrial Hygienists, *2001 Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices* (OH: ACGIH, 2001).

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(e) Kyoung Jin Kim, Sinyoung Shin, and Jaekyng Choi, *Cancer Risk from Exposure to Particulate Matter and Ozone According to Obesity and Health-Related Behaviors: A Nationwide Population-Based Cross-Sectional Study* (MD: NIH, 2019).

(f) Environmental Protection Agency, *Volatile Organic Compounds' Impact on Indoor Air Quality*. (Washington, D.C.: EPA, 2023).

(g) Environmental Protection Agency, *Recognition and Management of Pesticide Poisonings (Sixth Edition)* (Washington, D.C.: EPA, 2013), 43.

- (h) National Institute of Health, *Organophosphate Insecticide Use and Cancer Incidence Among Spouses of Pesticide Applicators in the Agricultural Health Study*, (MD: 2015).
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- (s) Agency for Toxic Substances and Disease Registry, *ToxFAQs for Nitrate and Nitrite* (GA: ATSDR, 2017).
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## 1. INTRODUCTION

At the request of the Air Force Global Strike Commander (AFGSC/CC), the United States Air Force School of Aerospace Medicine (USAFSAM) Defense Centers for Public Health-Dayton (DCPH-D) Occupational and Environmental Health Department Consultative Services Division (OEC) performed an environmental health survey for all fifteen Missile Alert Facilities (MAFs) at Minot AFB, ND. The assessment was completed from 20 to 27 July 2023 and included area air sampling, direct reading instrument (DRI) air monitoring, swipe sampling, drinking water sampling, and soil sampling. This survey was performed to characterize and document potential personnel exposures to environmental hazards in the MAFs. The purpose of this memo is to convey survey results received from four civilian and military laboratories.

### A. Survey Personnel:

- (1) Capt Leigh Durden, Environmental Health Consultant, DCPH-D/OEC
- (2) TSgt Bridgette Brzezinski, TSgt Katerine Harris, Occupational & Environmental Health (OEH) Technician, DCPH-D/OEC
- (3) TSgt Kristopher Beckwith, OEH Technician, DCPH-D/OEC
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- (5) SrA Alfredo Gomez, OEH Technician, DCPH-D/OEC

### B. Personnel Contacted:

- (1) Lt Col Stephanie Solberg, 5th Operational Medical Readiness Squadron (OMRS) Commander
- (2) Capt Lily Dollarhide, 5th Force Support Squadron Officer
- (3) 1st Lt Lee Williams, 5th OMRS Bioenvironmental Engineering Officer in Charge
- (4) SSgt Jesse Ford, 5th OMRS Bioenvironmental Engineering Flight Chief
- (5) SSgt Chloe Suthard, 5th Medical Support Squadron Medical Logistics Technician

### C. Equipment Used:

- (1) Thermo-System Engineering Incorporated (TSI) VelociCalc Meter: Ventilation air velocity and pressure differential
- (2) TSI Indoor Air Quality Meter: Temperature, humidity, carbon monoxide, carbon dioxide
- (3) Forensics Detectors Ozone Meter
- (4) HACH DR900 Colorimeter: pH, Total Chlorine, Free Available Chlorine in water
- (5) Scientific Kit Corporation (SKC) Air Sampling Pumps
- (6) MESA LABS Air Sampling Pump Calibrator

(7) Ancillary equipment including sterile containers and other items to facilitate sample collection and analysis

## **2. BACKGROUND**

Following a March 2023 site visit to address cancer concerns in the missileer community, DCPH-D performed the first round of environmental sampling at all MAFs at Minot AFB, ND. The sampling plan targeted potential carcinogens which potentially affect MAF personnel through dermal, ingestion, and inhalation pathways. The potential health hazards sampled for will be discussed in the health hazard summary in the following section.

The missile squadrons included in this survey are the 740th, 741th, and 742st each comprised of five MAFs at Minot AFB. The 740th Missile Squadron is responsible for MAFs Alpha through Echo, the 741th Missile Squadron is responsible for Foxtrot through Juliet and the 742st Missile Squadron is responsible for Kilo through Oscar. MAFs are of similar construction where the Topside Support Building consists of bedrooms, common areas, offices and a kitchen and the Launch Control Center (LCC) is completely underground with access by an elevator. The Launch Control Equipment Building (LCEB) which stores ancillary equipment and generators is also underground and is connected to the LCC by a hallway. When activated, the LCCs are manned twenty-four hours per day, seven days per week, three hundred sixty-five days a year with two-person crews that operate the LCC for twenty-four hours at a time. The crews work seven straight days followed by two weeks back at base in which the LCC is manned by other two-person crews. The LCCs are periodically deactivated for maintenance.

## **3. HEALTH HAZARD SUMMARY**

This section details the potential health hazards in the MAFs and LCCs. The survey includes indoor air quality (IAQ) parameters like temperature, relative humidity and carbon dioxide that can indicate comfort levels in a workplace, as well as carcinogens that could be found in the air, soil, and water. All samples were used to characterize and identify potential hazards in the work centers. Some of the chemicals (organophosphates and diquat/paraquat, for example) sampled for were selected due to the geographic location of the MAFs on or near agricultural land and the historical presence of these chemicals used near the MAFs.

### **3.1 INDOOR AIR QUALITY (IAQ)**

#### **3.1.1 CARBON MONOXIDE**

Carbon monoxide is an odorless gas and can cause fatigue, drowsiness, nausea, headache, and difficulty breathing. It is formed from combustion from equipment inside a building or vehicles running outside the air intake vent of the building (Arceo, 2014). Carbon monoxide is also naturally produced in the human body. People who smoke are vulnerable to increased levels of carbon monoxide within their body. The American Conference of Governmental Industrial Hygienists (ACGIH) established a Threshold Limit Value (TLV) as an 8-hour time-weighted average (TWA) of twenty-five parts-per-million for carbon monoxide (ACGIH, 2023). TLVs are ACGIH health-based standards which establish levels of exposures that workers can be exposed to without adverse health effects while TWAs are airborne chemical concentrations for a

conventional eight-hour workday and forty-hour workweek (Ibid, 2023). The TLV for carbon monoxide is intended to maintain blood carboxyhemoglobin (COHb) levels below 3.5%, to minimize the potential for adverse neurobehavioral changes, and to maintain cardiovascular work and exercise capacities (ACGIH, 2001). Furthermore, this TLV provides a margin of safety for workers particularly susceptible to the adverse effects of carbon monoxide exposure, including pregnant workers (i.e., the fetus) and those with chronic heart and respiratory diseases (Ibid, 2001).

Carbon monoxide poisoning prevents the body from absorbing enough oxygen and has the potential to lead to unconsciousness, coma, and death. Although not linked to cancer, sampling for carbon monoxide serves two purposes: (1) assess direct exposure to MAF occupants; and (2) assess the effectiveness of MAF ventilation systems.

### **3.1.2 CARBON DIOXIDE**

Carbon dioxide is a gas released by human exhalation. If inadequate fresh air or “make-up” air is available within a building, carbon dioxide can accumulate indoors. Carbon dioxide is not considered a health risk at high levels, but symptoms of concentrations exceeding 600 parts-per-million can include headache, drowsiness, difficulty concentrating, and dizziness (Arceo, 2014). The Bioenvironmental Engineering Technical Guide for IAQ Surveys further reflects maximum levels to carbon dioxide should not exceed one-thousand parts-per-million (Ibid, 2014). Although not linked to cancer, sampling for carbon dioxide serves three purposes: (1) assess direct exposure to MAF occupants; (2) assess the effectiveness of MAF ventilation systems; and (3) assess MAF structural integrity which potentially indicates a need for DCPH-D/OE to expand the current environmental sampling strategy.

### **3.1.3 OZONE**

Ozone is a colorless gas that can be emitted directly by urban and industrial processes, but also forms in the atmosphere by chemical reactions between nitrogen oxides and volatile organic compounds (VOCs). Ozone is also used as a bleaching agent for pulp and paper. Ozone affects the lower respiratory system and exposure limits are based on work activity levels (light, moderate, and heavy work activity) as respiratory rates increase, the potential for ozone reaching the deep lung also increases (Luttrell et al., 2019). The ACGIH established a TLV for light work recommending airborne ozone exposures are limited to 0.1 parts-per-million. Symptoms of excessive exposure to ozone include fatigue, dizziness, headache, and decreased concentration, motor activity, and cognitive response (Ibid, 2019). Although inconclusive, increased ozone levels have been linked to an increase in cancer risk (Kim, et al., 2019).

### **3.1.4 TEMPERATURE AND RELATIVE HUMIDITY**

Temperature and humidity recommendations are set by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and are based on comfort of the occupants as opposed to health risk. ASHRAE recommends temperatures of 68°F – 74°F in cold seasons and 72°F – 80°F during warm seasons. Relative humidity below 40% is commonly associated with building occupant discomfort and dissatisfaction. Symptoms due to abnormal relative humidity can include dry nose and throat, nose bleeds, sinus and throat irritation, and dry



eyes. Long term exposure to low relative humidity can also contribute to respiratory illness via weakening pulmonary mucous membrane defense (Arceo, 2014). Although not linked to cancer, analyzing temperature and relative humidity assesses MAF ventilation systems which can be used to facilitate changes to DCPH-D/OE's current environmental sampling strategy.

### **3.2 VOLATILE ORGANIC COMPOUNDS**

VOCs are a group of substances that have a high vapor pressure and low water solubility. This makes them able to easily change from a liquid or solid to a gaseous state which increases the potential for human exposure via inhalation. Exposure limits for VOCs are unique to each chemical. They are commonly found in both industrial environments and household products such as cleaning supplies, varnishes, and pesticides (Environmental Protection Agency, 2023). Over fifty VOCs were sampled for at each MAF. Health effects from VOC exposure vary from eye, nose and throat irritation to headaches and damage to the liver kidney and central nervous system (Ibid, 2023). VOCs can accumulate in an indoor setting and affect the quality of indoor air. Considering some VOCs have been confirmed or suspected to cause cancer in humans (Ibid, 2023), air samples were collected to test for VOCs within the MAFs.

### **3.3 ORGANOPHOSPHATES**

Organophosphates are a type of insecticide or pesticide commonly used in agriculture, homes, and gardens. Several organophosphates are highly toxic and can potentially cause acute (sudden) or subacute (rapid) toxicity (Environmental Protection Agency, 2013). Various organophosphates were sampled in the air, soil, and water. These compounds have varying exposure limits or maximum contaminant levels (MCLs) although their human health effects are similar. Acute symptoms from organophosphates exposure includes diarrhea, excessive salivation, and constriction of pupils. Acute and subacute symptoms include fluid accumulation in the respiratory tract as well as central nervous system effects such as tremors, delirium, loss of coordination, and convulsions (Luttrell et al., 2019). Organophosphates (specifically malathion, diazinon, dichlorvos, parathion, and tetrachlorvinphos) have been deemed possible carcinogens or probable carcinogens by The International Agency for Research on Cancer (IARC) and/or the United States Environmental Protection Agency (EPA) (National Institute of Health, 2015). Air, water, and soil samples were collected to test for organophosphate compounds due to MAF locations adjacent to agricultural land.

### **3.4 POLY CHLORINATED BIPHENYLS (PCBs)**

PCBs are synthetic organic chemicals used for a variety of industrial and commercial purposes. They were commonly used in the fluid in electrical components, capacitors, and transformers. PCBs were developed in the 1940's and used through the late 1970's. In the late 1970's, they were banned because of evidence that determined PCBs accumulate in the environment and may be toxic to humans and wildlife. PCBs remain present in electrical components of equipment in the LCCs because of their capability to insulate and regulate equipment temperatures (Agency for Toxic Substances and Disease Registry, 2014). 40 Code of Federal Regulations (CFR) 761.61 establishes a standard for PCB spills to be cleaned to ten micrograms per one hundred square centimeters (10 µg/100 cm<sup>2</sup>) (National Archives, 2023).

The EPA classified PCBs as a probable human carcinogen. Many of the cancer concerns from LCC occupants originated with concerns from PCB exposures. Furthermore, PCB stickers across all LCCs were not standardized and MAF occupants reported past incidences of PCB leaks. Due to LCC equipment containing PCBs, swipe, air, and water samples were collected to test for PCBs.

### **3.5 SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)**

SVOCs are persistent pollutants in soils and aquatic environments which can be transported over long distances and accumulate in organisms (Liu et al., 2019). SVOCs can be found in many pesticides, oil-based products, and flame retardants. Exposure limits for SVOCs are unique to each chemical yet have similar adverse health effects on the human body. Over sixty SVOCs were analyzed for in the water and their respective MCLs can be found in the results tables in the Appendices. Some SVOCs could cause cancer, reproductive disorders, nervous system damage, and immune system disruption (Ibid, 2019). Considering concerns with carcinogenic effects, SVOC water samples were collected within the MAFs.

### **3.6 DIQUAT/PARAQUAT**

Diquat and paraquat compounds are herbicides used in agriculture and homes, although diquat is utilized less in agriculture than paraquat (Jones and Vale, 2000). Paraquat was first produced for commercial purposes in 1961 and is one of the most used herbicides worldwide (Centers for Disease Control and Prevention, 2018). The EPA set a MCL for diquat at 0.02 milligrams per liter. While no paraquat MCL exists, the EPA requires mitigation measures with paraquat to reduce risks to human health and the environment (EPA, 2023). Health effects from diquat and paraquat exposure include gastrointestinal symptoms and heart, liver, and kidney failure (Centers for Disease Control and Prevention, 2018). Herbicides have the potential to remain present in environments surrounding MAFs due to MAF proximity to agricultural land which use herbicides. Considering the National Institute of Health reports potential links between diquat/paraquat and elevated rates of non-Hodgkin's lymphoma (National Institute of Health, 2016), water samples were collected to test for diquat/paraquat.

### **3.7 DIOXINS**

Dioxins are persistent organic pollutants found throughout the world that can take a long time to break down once in the environment. They can bioaccumulate resulting in greater than 90% of typical human exposure to be via dietary intake of animal, dairy and fish products (EPA, 2023). Dioxins can be found in the water from air emissions due to burning of waste or other combustion sources (Ibid, 2023). The EPA established a MCL of thirty picograms per liter for 2,3,7,8-Tetrachlorodibenzodioxin. Exposure to 2,3,7,8-Tetrachlorodibenzodioxin results in severe skin disease and acne-like skin lesions (Agency for Toxic Substances and Disease Registry, 1999). Variations of dioxins have been banned for use inside the United States. The dioxin 2,3,7,8-Tetrachlorodibenzodioxin is deemed a human carcinogen by the World Health Organization (IARC, 2004). In the 1980s, 2,3,7,8-Tetrachlorodibenzodioxin was banned from use within the United States. Due to dioxins ability to attach to soil and settle in sediment water, dioxins have the potential to remain present in environments surrounding MAFs. Therefore,

samples were collected to test for dioxins in drinking water.

### **3.8 NITRATE/NITRITE**

Fertilizers and animal waste can contain nitrogen increasing the concentration of nitrate in water sources. Per the Agency for Toxic Substances and Disease Registry (ATSDR), nitrate-containing compounds in the soil can easily dissolve in water making them easy to migrate into groundwater (ATSDR, 2017). Nitrite is more easily oxidized than nitrate, therefore nitrate is more commonly found in groundwater and surface waters. The EPA established a MCL of ten milligrams per liter for total nitrates and nitrites as nitrogen. Excessive nitrate or nitrite exposure can cause blood disorders. The IARC classified nitrates as “probably carcinogenic to humans” (ATSDR, 2023). Due to the location of most MAFs near agricultural land, water samples were collected to test for nitrite and nitrate.

## **4. METHODOLOGY & ANALYSIS**

This section summarizes sampling plans utilized to ensure proper collection, analysis, and validity of results. Detailed sampling plans for each potential health hazard sampled will be included in the final report. National Institute for Occupational Safety and Health (NIOSH) and EPA approved methods were used to develop sampling plans and execute sample analysis. Laboratory analysis was used to run five methods for water sampling, three methods for air sampling, one method for PCB swipe sampling, and one method for soil sampling. The individual methods for sampling can test for multiple analytes or chemical compounds. The tables in the appendices of this report contain sample type, location, analyte, result, and applicable detection limit. Except for soil, which was collected outside of the MAFs, all samples were collected in both the LCC and in the Topside Support Building. A summary of analytical methods and number of samples taken for each method can be found in Table 1. Samples were shipped from Minot AFB to four civilian and military analytical laboratories to conduct the analysis. DCPH-D/OE validated results as they were received from the laboratories.

### **4.1 WATER**

Sample locations at each MAF were the kitchen sink in the Topside Support Building and the bathroom sink in the LCC. In accordance with EPA sampling methods, screen aerators were removed, and the water was flushed for five minutes prior to sample collection. After sample collection, samples were immediately stored to meet required temperature parameters defined in the analytical method. Three samples for each method were taken at the two specified locations: (1) the sample, (2) matrix spike, and (3) matrix spike duplicate. Matrix spike and matrix spike duplicates are quality-control samples used to evaluate the performance of the analytical method by measuring the effect on interferences caused by the sample matrix – water in this case. Matrix spike and matrix spike duplicates were spiked with a required, known amount of the analyte and run through the analytical method by the labs. The lab calculates the percent recovery of the spike which must fall within parameters to ensure sample results are not affected by interferences.

## 4.2 AIR

Air sampling quantifies the concentration of analytes within the volume sampled. Area air samples were collected to characterize the background indoor air environment in the MAFs. DCPH-D/OE used three different methods to analyze for sixty-eight analytes consisting of organophosphates, PCBs, and VOCs in each of the fifteen MAFs. The following area air samples were collected for each method:

- Organophosphate: eight- and two-hour samples in the LCC and eight- and two-hour samples in the Topside Support Building. Two-hour sampling was conducted because one of the chemicals analyzed in the method had a lower maximum collection volume that would be exceeded if sampled for eight hours.
- PCB: eight-hour sample in the LCC and eight-hour sample in the Topside Support Building.
- VOCs: eight-hour sample in the LCC and eight-hour sample in the Topside Support Building.

In addition to the area air samples collected at each MAF, field and media blanks were also analyzed. Media blanks are never exposed to the environment and are used to ensure there is no contamination of media during the equipment/media manufacturing and handling processes. Field blanks are opened to the environment to assess any initial contamination that may have occurred prior to any tested air that would have flowed through the sample media.

Eight-hour area air samples were collected to minimize missile crew rest interruption. The two-man crew is in the LCC for twenty-four hours where each crew member will have crew rest for about eight hours. The remaining time is spent in the crew members' seat in front of their visual display console. Considering missileers are not performing any processes that would change LCC conditions, an eight-hour area sample can appropriately characterize a twenty-four-hour alert shift.

## 4.3 SOIL

To determine the presence of organophosphates, six grab samples were collected eight to twelve inches below the soil surface at each MAF. Samples were collected at each corner, outside of the MAF restricted area fence line to establish background concentrations. Additionally, a sample was collected near the air intake vent where dirt can potentially enter the MAF ventilation system. The sixth soil sample location was selected at random within the MAF fence line.

## 4.4 PCB SWIPES

Swipe sampling was conducted to determine the presence/absence of PCBs. A total of twenty swipes were collected in each MAF at locations historically known to contain PCBs (e.g., panels, transformers, & batteries) as well as commonly touched areas and equipment (e.g., display screens, keyboards, doorknobs/levers & elevator buttons). Surfaces of a ten centimeter by ten-centimeter (100 cm<sup>2</sup>) area were swiped horizontally and vertically within the same location, side to side, up and down. When possible for equipment being swiped, both a surface swipe and ground level or underside swipe was taken to determine the presence/absence of PCB.

**Table 1: Summary of Analytical Methods and Sample Quantity for each Potential Health Hazard**

<b>Potential Health Hazard</b>	<b>Lab (Location)</b>	<b>Analytical Method</b>	<b>Matrix</b>	<b>No. of Samples (per MAF)</b>	<b>No. of Samples (per base)</b>
PCBs	Eurofins (South Bend, IN)	EPA 505	Water	6	90
Total Nitrate/Nitrite as N	Aberdeen (Aberdeen Proving Ground, MD)	NECi N07-0003	Water	6	90
Pesticides/SVOCs	Eurofins	EPA 525.2	Water	6	90
Diquat/Paraquat	Eurofins	EPA 549.2	Water	6	90
Dioxin	Aberdeen	EPA 1613B	Water	6	90
VOCs	Bureau Veritas North America (Fort Lauderdale, FL)	EPA TO 17	Air	4	60
Organophosphates	Bureau Veritas North America	NIOSH 5600	Air	6	90
PCBs	Bureau Veritas North America	NIOSH 5503	Air	4	60
PCB Swipe Sampling	Summit (Cuyahoga Falls, OH)	EPA 8082A	Surface	20	300
Organophosphates	Summit	EPA 1699	Soil	6	90

## 5. RESULTS & DISCUSSION

This section summarizes the findings of all samples collected at Minot AFB. Sample results were received from the laboratories and checked for quality assurance and control. Any results that came back above a standard were immediately communicated and released to AFGSC/SG. All results for each MAF received from the laboratories are documented in the appendices of this report. Each MAF's results can be found as its own appendix, Appendix Alpha through Appendix Oscar. Non-Detects (ND) mean the result was below the laboratory's limit of detection (LOD) for that specific method. The appendices may document occurrences when the laboratory's reported LOD exceeded the associated health limit for a given analyte. If/when this occurs, DCPH-D/OE will characterize the analyte health risk by considering revisions to the Round 3 sampling strategy. Any samples that broke during shipment or processing at the laboratory will be resampled during Round 2 of this project.

## 5.1 PCB SWIPE SAMPLING

Swipe sampling for PCBs were compared to the 40 CFR 761 standard of ten micrograms per one hundred square centimeters (10 µg/100 cm<sup>2</sup>). Twenty-eight swipes in ten MAFs had detectable surface levels of PCBs. One MAF (Delta-D01) revealed two locations which exceeded limits mandated by 40 CFR 761 (Equipment Room: RFI Filters, Ground Level; Equipment Room: MPP Access Cover). These results were expedited to AFGSC/SG via the Minot PCB memorandum dated on 21 August 2023. A full list of all swipe locations at each MAF and associated results can be found as Tables 1A – 1O in the Appendices.

## 5.2 AIR SAMPLING

All PCB and organophosphate area air sampling in the LCC and Topside Support Building were below laboratory limits of detection. The two-hour area air sampling using method NIOSH 5600 for organophosphates only analyzed for malathion as seen in Table 3 of the Appendices.

VOC air sampling results detected trace amounts of:

- Benzene in MAFs Alpha, Echo, India, and Mike
- Toluene in MAF Mike

No trace amounts of chemicals were found on any Minot media and field blanks, therefore these results are considered valid. DCPH-D/OE will resample for these constituents in Round 2. A full list of results can be found in Tables 2-4 in the appendices.

## 5.3 WATER SAMPLING

Except for Aldrin (all MAFs) and Benzo[a]anthracene (MAFs Bravo, Charlie, Echo, Foxtrot, and Oscar) whose results were below the laboratory LOD, all analytes with an EPA-established MCL had results less than the MCL indicating there are no identified analytes within the drinking water presenting a current risk to human health. Some analytes evaluated do not have an MCL, noted not applicable (N/A) in the tables located in the Appendix. The EPA has not determined these analytes to be a risk considering public health protection, technical and financial barriers. The water results for each method can be found in Tables 5-9 of the Appendices.

## 5.4 SOIL SAMPLING

Soil sampling was performed to determine presence or absence of organophosphate compounds on and around MAF property. The results were non-detect for all ten analytes screened at all fifteen MAFs. The full list of results can be found as Tables 10 in the Appendices.

## 5.5 INDOOR AIR QUALITY

Direct reading measurements for carbon monoxide, carbon dioxide, ozone, relative humidity, and temperature were taken in each MAF. Readings were compared to comfort levels provided by the ASHRAE Standard 62.1-2010 and exposure limits dictated by ACGIH. A full list of IAQ results can be found in Tables 11 in the appendices.

- Carbon monoxide: Levels ranged from 0 to 7.2 parts-per-million; all below ACGIH TLV of twenty-five parts-per-million.
- Carbon dioxide: MAF measurements ranged from 460 to 1060 parts-per-million, with an average concentration in the LCC of 745 parts-per-million and Topside Support Building of 545 parts-per-million. Two carbon dioxide levels were above the recommended worker comfort maximum exposure limit of 1,000 parts-per-million per ASHRAE criteria (Echo LCC at 1060 parts-per-million and Juliet LCC at 1017 parts-per-million). Although slightly above ASHRAE recommendations, DCPH-D/OE does not foresee any comfort risks associated with these variances.
- Ozone: All levels were zero which is below the ACGIH TLV of 0.1 parts-per-million for light work.
- Relative humidity: Average relative humidity levels ranged from 31.7% to 68.8%, compared to ASHRAE's comfort criteria for relative humidity of 30% to 60%. Although slightly above ASHRAE recommendations, DCPH-D/OE does not foresee any comfort risks associated with these variances.
- Temperature: MAF temperature ranged from 67.7°F to 73.2°F, with an average MAF temperature in the LCC of 71°F and Topside Support Building of 71.5°F. ASHRAE temperature recommendation range for summer is 72°F to 80°F. Although many locations had temperatures slightly below ASHRAE recommendations, DCPH-D/OE does not foresee any comfort risks associated with these temperature variances.

## **5.6 RADON**

Considering the length of time required to collect the radon samples and complete analysis, results from Round 1 radon sampling will be captured in a future report.

## **6. CONCLUSIONS**

The results presented in this report are a part of a multi-faceted study to characterize the environment in which the missileer community works. Three sampling events will occur over a year to determine if seasonal variations in the analytes analyzed exist. Round 2 of this project was completed on 7 November 2023. Results from Round 2 are currently pending laboratory analysis. If you have any questions, comments, or concerns, please contact Capt Leigh Durden at 937-938-3297 or by e-mail at [leigh.durden@us.af.mil](mailto:leigh.durden@us.af.mil).

SCOTT M. BOYD, Lt Col, USAF, BSC  
Chief Consulting Executive

# Appendix 1: MAF ALPHA (A-01) Results, Sampled on 27 July 2023

Table 1A: PCB Swipe Sampling

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Digital Data Group (S/N: 0002018) – Surface	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0002018) – Underside	Total PCBs	Not Detected	10
Battery Charger Access – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access – Bottom Seam (PCB Sticker)	Total PCBs	Not Detected	10
AC Power 60 Cycle - Surface	Total PCBs	Not Detected	10
AC Power 60 Cycle - Underside	Total PCBs	Not Detected	10
Left Keyboard (S/N: C110162)	Total PCBs	Not Detected	10
Left Visual Display Screen (S/N: 0619B054)	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3 (S/N: C109637)	Total PCBs	Not Detected	10
Right Visual Display Screen (S/N: 0619B056)	Total PCBs	Not Detected	10
Top of Motor Generator Under Floor Plate	Aroclor 1254	3.61	10
	Total PCBs	3.61	10
Power Supply (S/N: 0000091) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000091) – Underside	Total PCBs	Not Detected	10
LCPA Panel (S/N: 12-26293/6-014) - Surface	Total PCBs	Not Detected	10
LCPA Panel (S/N: 12-26293/6-014) - Underside	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/4-013) (EB Room)	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10



**Table 2A: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3A: Air Sampling Results – Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4A: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	0.068	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4A: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5A: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.79	0.75	10

**Table 6A: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.0	<4.3	30

**Table 7A: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8A: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9A: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.000097	<0.000098	N/A
2-Methylnaphthalene	<0.000097	<0.000098	N/A
4,4'-DDD	<0.000097	<0.000098	N/A
4,4'-DDE	<0.000097	<0.000098	N/A
4,4'-DDT	<0.000097	<0.000098	N/A
Acenaphthene	<0.000097	<0.000098	N/A
Acenaphthylene	<0.000097	<0.000098	N/A
Alachlor	<0.000097	<0.000098	0.002
Aldrin	<0.000097	<0.000098	0.00001
alpha-Chlordane	<0.000097	<0.000098	N/A

**Table 9A: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.000097	<0.000098	N/A
Atrazine	<0.000097	<0.000098	0.003
Benzo[a]anthracene	<0.000097	<0.000098	0.0001
Benzo[a]pyrene	<0.000019	<0.00002	0.0002
Benzo[b]fluoranthene	<0.000097	<0.000098	0.0002
Benzo[g,h,i]perylene	<0.000097	<0.000098	N/A
Benzo[k]fluoranthene	<0.000097	<0.000098	0.0002
Bromacil	<0.000097	<0.000098	N/A
Butachlor	<0.000097	<0.000098	N/A
Butylbenzylphthalate	<0.00097	<0.00098	N/A
Chlorothalonil	<0.000097	<0.000098	N/A
Chrysene	<0.000097	<0.000098	0.0002
Cyanazine	<0.000097	<0.000098	N/A
Deisopropylatrazine	<0.00097	<0.00098	N/A
Desethylatrazine	<0.00097	<0.00098	N/A
Di(2-ethylhexyl)phthalate	<0.00058	<0.00059	0.006
Di(2-ethylhexyl)adipate	<0.00058	<0.00059	0.40
Diazinon	<0.000097	<0.000098	N/A
Dibenz[a,h]anthracene	<0.000097	<0.000098	0.0003
Dieldrin	<0.000097	<0.000098	N/A
Diethylphthalate	<0.00097	<0.00098	N/A
Dimethoate	<0.00049	<0.00049	N/A
Dimethylphthalate	<0.00097	<0.00098	N/A
Di-n-butylphthalate	<0.0019	<0.002	N/A
Di-n-octylphthalate	<0.0019	<0.002	N/A
Endrin	<0.0000097	<0.0000098	0.002
EPTC	<0.000097	<0.000098	N/A
Fluoranthene	<0.000097	<0.000098	N/A
Fluorene	<0.000097	<0.000098	N/A
gamma-BHC (Lindane)	<0.000019	<0.00002	0.0002
gamma-Chlordane	<0.000097	<0.000098	0.100
Heptachlor	<0.0000097	<0.0000098	0.0004
Heptachlor Epoxide	<0.0000097	<0.0000098	0.0002
Hexachlorobenzene	<0.000097	<0.000098	0.001
Hexachlorocyclopentadiene	<0.000097	<0.000098	0.05
Indeno[1,2,3-cd]pyrene	<0.000097	<0.000098	0.0004
Malathion	<0.000097	<0.000098	N/A

**Table 9A: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.000097	<0.000098	0.04
Metolachlor	<0.000097	<0.000098	N/A
Metribuzin	<0.000097	<0.000098	N/A
Molinate	<0.000097	<0.000098	N/A
Naphthalene	<0.000097	<0.000098	N/A
Parathion	<0.00049	<0.00049	N/A
Phenanthrene	<0.000097	<0.000098	N/A
Prometryn	<0.000097	<0.000098	N/A
Propachlor	<0.000097	<0.000098	N/A
Pyrene	<0.000097	<0.000098	0.0002
Simazine	<0.000068	<0.000069	0.004
Terbacil	<0.000097	<0.000098	N/A
Thiobencarb	<0.000097	<0.000098	N/A
trans-Nonachlor	<0.000097	<0.000098	0.002
Trifluralin	<0.000097	<0.000098	N/A

**Table 10A: Soil Sampling Results**

Analyte	South of Corner near Intake Vent (mg/kg-dry)	South of MAF Near Concrete Circle (mg/kg-dry)	SW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10A: Soil Sampling Results Cont.**

Analyte	SE Corner Outside Fenceline (mg/kg-dry)	EE Corner Outside Fenceline (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrctophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11A: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	570 ppm	758 ppm	1000 ppm
Relative Humidity	60.2%	46.4%	30% - 60%
Temperature	73.1 °F	71.4 °F	72°F - 80°F
Carbon Monoxide	0.4 ppm	3.1 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12A: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	8.5	7.8	6.5 - 8.5
Free Available Chlorine	0.23	0	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.55	0	> 0 mg/L; < 4 mg/L

## Appendix 2: MAF BRAVO (B-01) Results, Sampled on 21 July 2023

Table 1B: PCB Swipe Sampling

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Battery Charger Access – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0003014) – Surface	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0003014) – Underside	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3 (S/N: C109687)	Total PCBs	Not Detected	10
Left Console Display Screen (S/N: 0549B058)	Total PCBs	Not Detected	10
Motorola Generator - Surface	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3 (S/N: C109643)	Total PCBs	Not Detected	10
Right Console Screen (S/N: 0549B057)	Total PCBs	Not Detected	10
Power Supply (S/N: 0000077) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000077) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-001) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-001) - Underside	Total PCBs	Not Detected	10
Filtron R.F Interference Filter – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Filtron R.F Interference Filter – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Auto Switching Unit - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10
Distribution Box Unit Ref 364 - Surface	Total PCBs	Not Detected	10
Distribution Box Unit Ref 364 - Underside	Total PCBs	Not Detected	10
MAF Table in Common Area	Total PCBs	Not Detected	10



**Table 2B: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3B: Air Sampling Results – Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4B: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4B: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5B: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.91	0.83	10

**Table 6B: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.2	<4.3	30

**Table 7B: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8B: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9B: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00011	<0.00010	N/A
2-Methylnaphthalene	<0.00011	<0.00010	N/A
4,4'-DDD	<0.00011	<0.00010	N/A
4,4'-DDE	<0.00011	<0.00010	N/A
4,4'-DDT	<0.00011	<0.00010	N/A
Acenaphthene	<0.00011	<0.00010	N/A
Acenaphthylene	<0.00011	<0.00010	N/A
Alachlor	<0.00011	<0.00010	0.002
Aldrin	<0.00011	<0.00010	0.00001
alpha-Chlordane	<0.00011	<0.00010	N/A

**Table 9B: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Anthracene	<0.00011	<0.00010	N/A
Atrazine	<0.00011	<0.00010	0.003
Benzo[a]anthracene	<0.00011	<0.00010	0.0001
Benzo[a]pyrene	<0.000021	<0.000021	0.0002
Benzo[b]fluoranthene	<0.00011	<0.00010	0.0002
Benzo[g,h,i]perylene	<0.00011	<0.00010	N/A
Benzo[k]fluoranthene	<0.00011	<0.00010	0.0002
Bromacil	<0.00011	<0.00010	N/A
Butachlor	<0.00011	<0.00010	N/A
Butylbenzylphthalate	<0.0011	<0.0010	N/A
Chlorothalonil	<0.00011	<0.00010	N/A
Chrysene	<0.00011	<0.00010	0.0002
Cyanazine	<0.00011	<0.00010	N/A
Deisopropylatrazine	<0.0011	<0.0010	N/A
Desethylatrazine	<0.0011	<0.0010	N/A
Di(2-ethylhexyl)phthalate	<0.00064	<0.00062	0.006
Di(2-ethylhexyl)adipate	<0.00064	<0.00062	0.40
Diazinon	<0.00011	<0.00010	N/A
Dibenz[a,h]anthracene	<0.00011	<0.00010	0.0003
Dieldrin	<0.00011	<0.00010	N/A
Diethylphthalate	<0.0011	<0.0010	N/A
Dimethoate	<0.00053	<0.00052	N/A
Dimethylphthalate	<0.0011	<0.0010	N/A
Di-n-butylphthalate	<0.0021	<0.0021	N/A
Di-n-octylphthalate	<0.0021	<0.0021	N/A
Endrin	<0.000011	<0.000010	0.002
EPTC	<0.00011	<0.00010	N/A
Fluoranthene	<0.00011	<0.00010	N/A
Fluorene	<0.00011	<0.00010	N/A
gamma-BHC (Lindane)	<0.000021	<0.000021	0.0002
gamma-Chlordane	<0.00011	<0.00010	0.100
Heptachlor	<0.000011	<0.000010	0.0004
Heptachlor Epoxide	<0.000011	<0.000010	0.0002
Hexachlorobenzene	<0.00011	<0.00010	0.001
Hexachlorocyclopentadiene	<0.00011	<0.00010	0.05
Indeno[1,2,3-cd]pyrene	<0.00011	<0.00010	0.0004
Malathion	<0.00011	<0.00010	N/A

**Table 9B: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00011	<0.00010	0.04
Metolachlor	<0.00011	<0.00010	N/A
Metribuzin	<0.00011	<0.00010	N/A
Molinate	<0.00011	<0.00010	N/A
Naphthalene	<0.00011	<0.00010	N/A
Parathion	<0.00053	<0.00052	N/A
Phenanthrene	<0.00011	<0.00010	N/A
Prometryn	<0.00011	<0.00010	N/A
Propachlor	<0.00011	<0.00010	N/A
Pyrene	<0.00011	<0.00010	0.0002
Simazine	<0.000074	<0.000072	0.004
Terbacil	<0.00011	<0.00010	N/A
Thiobencarb	<0.00011	<0.00010	N/A
trans-Nonachlor	<0.00011	<0.00010	0.002
Trifluralin	<0.00011	<0.00010	N/A

**Table 10B: Soil Sampling Results**

Analyte	SW Inside Near Air Intake Vent (mg/kg-dry)	NE Inside Near Big Radar (mg/kg-dry)	SW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10B: Soil Sampling Results Cont.**

Analyte	SE Corner Outside Fenceline (mg/kg-dry)	NE Corner Outside Fenceline (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11B: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	500 ppm	690 ppm	1000 ppm
Relative Humidity	57.8%	38.9%	30% - 60%
Temperature	72.4 °F	71.6 °F	72°F - 80°F
Carbon Monoxide	0.4 ppm	1.4 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12B: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	7.1	7.3	6.5 - 8.5
Free Available Chlorine	0.02	0.01	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.05	0.04	> 0 mg/L; < 4 mg/L

## Appendix 3: MAF CHARLIE (C-01) Results, Sampled on 21 July 2023

Table 1C: PCB Swipe Sampling

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Receiver Digital Data (S/N: 000307) – Surface	Total PCBs	Not Detected	10
Receiver digital data (S/N: 000307) – Underside	Total PCBs	Not Detected	10
Battery Access Charger – Surface (PCB sticker)	Total PCBs	Not Detected	10
Battery Access Charger – Ground Level (PCB sticker)	Total PCBs	Not Detected	10
Left Console Keyboard Above T1/T2/T3 Sicker (S/N: C109581)	Total PCBs	Not Detected	10
Left Console Screen (S/N: 0605B074)	Total PCBs	Not Detected	10
Right Console Keyboard Above T1/T2/T3 Sicker (S/N: C109613)	Total PCBs	Not Detected	10
Right Console Screen	Total PCBs	Not Detected	10
Top of Motor Generator – Under Floor Plate	Total PCBs	Not Detected	10
Power Supply (S/N: 0000057) - Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000057) - Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-017) (- Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-017) - Underside	Total PCBs	Not Detected	10
Box in Ceiling Entry Way	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10
KL86 (MEADS) Buttons	Total PCBs	Not Detected	10
Common Area Dining Table	Total PCBs	Not Detected	10



**Table 2C: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3C: Air Sampling Results –Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4C: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4C: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5C: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.38	0.37	10

**Table 6C: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.0	<4.2	30

**Table 7C: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8C: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9C: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00011	N/A
2-Methylnaphthalene	<0.00010	<0.00011	N/A
4,4'-DDD	<0.00010	<0.00011	N/A
4,4'-DDE	<0.00010	<0.00011	N/A
4,4'-DDT	<0.00010	<0.00011	N/A
Acenaphthene	<0.00010	<0.00011	N/A
Acenaphthylene	<0.00010	<0.00011	N/A
Alachlor	<0.00010	<0.00011	0.002
Aldrin	<0.00010	<0.00011	0.00001
alpha-Chlordane	<0.00010	<0.00011	N/A

**Table 9C: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00011	N/A
Atrazine	<0.00010	<0.00011	0.003
Benzo[a]anthracene	<0.00010	<0.00011	0.0001
Benzo[a]pyrene	<0.000020	<0.000021	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00011	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00011	N/A
Benzo[k]fluoranthene	<0.00010	<0.00011	0.0002
Bromacil	<0.00010	<0.00011	N/A
Butachlor	<0.00010	<0.00011	N/A
Butylbenzylphthalate	<0.0010	<0.0011	N/A
Chlorothalonil	<0.00010	<0.00011	N/A
Chrysene	<0.00010	<0.00011	0.0002
Cyanazine	<0.00010	<0.00011	N/A
Deisopropylatrazine	<0.0010	<0.0011	N/A
Desethylatrazine	<0.0010	<0.0011	N/A
Di(2-ethylhexyl)phthalate	<0.00060	<0.00064	0.006
Di(2-ethylhexyl)adipate	<0.00060	<0.00064	0.40
Diazinon	<0.00010	<0.00011	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00011	0.0003
Dieldrin	<0.00010	<0.00011	N/A
Diethylphthalate	<0.0010	<0.0011	N/A
Dimethoate	<0.00050	<0.00053	N/A
Dimethylphthalate	<0.0010	<0.0011	N/A
Di-n-butylphthalate	<0.0020	<0.0021	N/A
Di-n-octylphthalate	<0.0020	<0.0021	N/A
Endrin	<0.000010	<0.000011	0.002
EPTC	<0.00010	<0.00011	N/A
Fluoranthene	<0.00010	<0.00011	N/A
Fluorene	<0.00010	<0.00011	N/A
gamma-BHC (Lindane)	<0.000021	<0.000021	0.0002
gamma-Chlordane	<0.00010	<0.00011	0.100
Heptachlor	<0.000010	<0.000011	0.0004
Heptachlor Epoxide	<0.000010	<0.000011	0.0002
Hexachlorobenzene	<0.00010	<0.00011	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00011	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00011	0.0004
Malathion	<0.00010	<0.00011	N/A

**Table 9C: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00011	0.04
Metolachlor	<0.00010	<0.00011	N/A
Metribuzin	<0.00010	<0.00011	N/A
Molinate	<0.00010	<0.00011	N/A
Naphthalene	<0.00010	<0.00011	N/A
Parathion	<0.00050	<0.00053	N/A
Phenanthrene	<0.00010	<0.00011	N/A
Prometryn	<0.00010	<0.00011	N/A
Propachlor	<0.00010	<0.00011	N/A
Pyrene	<0.00010	<0.00011	0.0002
Simazine	<0.000070	<0.000074	0.004
Terbacil	<0.00010	<0.00011	N/A
Thiobencarb	<0.00010	<0.00011	N/A
trans-Nonachlor	<0.00010	<0.00011	0.002
Trifluralin	<0.00010	<0.00011	N/A

**Table 10C: Soil Sampling Results**

Analyte	W of MAF Next to Air Intake Vent (mg/kg-dry)	W of MAF Next to Concrete Circle (mg/kg-dry)	W Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10C: Soil Sampling Results Cont.**

Analyte	SW Corner Outside Fenceline (mg/kg-dry)	E Corner Outside Fenceline (mg/kg-dry)	NE Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11C: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	613 ppm	815 ppm	1000 ppm
Relative Humidity	56.6%	40.4%	30% - 60%
Temperature	71.7°F	67.7°F	72°F - 80°F
Carbon Monoxide	0 ppm	3.8 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12C: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	6.9	6.9	6.5 - 8.5
Free Available Chlorine	0.36	0.02	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.29	0.04	> 0 mg/L; < 4 mg/L

## Appendix 4: MAF DELTA (D-01) Results, Sampled on 24 July 2023

**Table 1D: PCB Swipe Sampling**

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Digital Data Group (S/N: 0000057) – Surface	Total PCBs	Not Detected	10
Digital Data Group(S/N: 0000057) – Underside	Total PCBs	Not Detected	10
Battery Charger Access – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Left Visual Display Screen	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3	Aroclor 1254	2.14	10
	Total PCBs	2.14	10
Right Visual Display Screen	Total PCBs	Not Detected	10
Power Supply (S/N: 0000059) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000059) – Underside	Total PCBs	Not Detected	10
Top of Motor Generator – Under Floor Plate	Aroclor 1254	5.09	10
	Total PCBs	5.09	10
Wing 3 LCDS Panel (S/N: 12-26293/6-005) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-005) - Underside	Total PCBs	Not Detected	10
Box in Ceiling of Entry Way	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Aroclor 1254	1710	10
	Total PCBs	1710	10
MPP Access Cover - Surface	Aroclor 1254	12.7	10
	Total PCBs	12.7	10
Distribution Box - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Aroclor 1254	9.69	10
	Total PCBs	9.69	10
KL86 (MEADS) Buttons	Aroclor 1254	4.60	10
	Total PCBs	4.60	10



**Table 2D: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3D: Air Sampling Results –Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chloropyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4D: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4D: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5D: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.76	0.68	10

**Table 6D: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.1	<4.0	30

**Table 7D: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8D: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9D: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00010	N/A
2-Methylnaphthalene	<0.00010	<0.00010	N/A
4,4'-DDD	<0.00010	<0.00010	N/A
4,4'-DDE	<0.00010	<0.00010	N/A
4,4'-DDT	<0.00010	<0.00010	N/A
Acenaphthene	<0.00010	<0.00010	N/A
Acenaphthylene	<0.00010	<0.00010	N/A
Alachlor	<0.00010	<0.00010	0.002
Aldrin	<0.00010	<0.00010	0.00001
alpha-Chlordane	<0.00010	<0.00010	N/A

**Table 9D: Water Sampling Results – Pesticides/SVOCs**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00010	N/A
Atrazine	<0.00010	<0.00010	0.003
Benzo[a]anthracene	<0.00010	<0.00010	0.0001
Benzo[a]pyrene	<0.000021	<0.000021	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00010	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00010	N/A
Benzo[k]fluoranthene	<0.00010	<0.00010	0.0002
Bromacil	<0.00010	<0.00010	N/A
Butachlor	<0.00010	<0.00010	N/A
Butylbenzylphthalate	<0.0010	<0.0010	N/A
Chlorothalonil	<0.00010	<0.00010	N/A
Chrysene	<0.00010	<0.00010	0.0002
Cyanazine	<0.00010	<0.00010	N/A
Deisopropylatrazine	<0.0010	<0.0010	N/A
Desethylatrazine	<0.0010	<0.0010	N/A
Di(2-ethylhexyl)phthalate	<0.00062	<0.00063	0.006
Di(2-ethylhexyl)adipate	<0.00062	<0.00063	0.40
Diazinon	<0.00010	<0.00010	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00010	0.0003
Dieldrin	<0.00010	<0.00010	N/A
Diethylphthalate	<0.0010	<0.0010	N/A
Dimethoate	<0.00052	<0.00052	N/A
Dimethylphthalate	<0.0010	<0.0010	N/A
Di-n-butylphthalate	<0.0021	<0.0021	N/A
Di-n-octylphthalate	<0.0021	<0.0021	N/A
Endrin	<0.000010	<0.000010	0.002
EPTC	<0.00010	<0.00010	N/A
Fluoranthene	<0.00010	<0.00010	N/A
Fluorene	<0.00010	<0.00010	N/A
gamma-BHC (Lindane)	<0.000021	<0.000021	0.0002
gamma-Chlordane	<0.00010	<0.00010	0.100
Heptachlor	<0.000010	<0.000010	0.0004
Heptachlor Epoxide	<0.000010	<0.000010	0.0002
Hexachlorobenzene	<0.00010	<0.00010	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00010	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00010	0.0004
Malathion	<0.00010	<0.00010	N/A

**Table 9D: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00010	0.04
Metolachlor	<0.00010	<0.00010	N/A
Metribuzin	<0.00010	<0.00010	N/A
Molinate	<0.00010	<0.00010	N/A
Naphthalene	<0.00010	<0.00010	N/A
Parathion	<0.00052	<0.00052	N/A
Phenanthrene	<0.00010	<0.00010	N/A
Prometryn	<0.00010	<0.00010	N/A
Propachlor	<0.00010	<0.00010	N/A
Pyrene	<0.00010	<0.00010	0.0002
Simazine	<0.000073	<0.000073	0.004
Terbacil	<0.00010	<0.00010	N/A
Thiobencarb	<0.00010	<0.00010	N/A
trans-Nonachlor	<0.00010	<0.00010	0.002
Trifluralin	<0.00010	<0.00010	N/A

**Table 10D: Soil Sampling Results**

Analyte	N of MAF Near Air Intake Vent (mg/kg-dry)	NW of MAF Next to Building (mg/kg-dry)	N Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10D: Soil Sampling Results Cont.**

Analyte	W Corner Outside Fenceline (mg/kg-dry)	S Corner Outside Fenceline (mg/kg-dry)	E Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11D: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	677 ppm	514 ppm	1000 ppm
Relative Humidity	58%	55.7%	30% - 60%
Temperature	68.6°F	69.9°F	72°F - 80°F
Carbon Monoxide	0.6 ppm	1.2 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12D: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	8.1	8.3	6.5 - 8.5
Free Available Chlorine	0.17	0.03	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.25	0.03	> 0 mg/L; < 4 mg/L

## Appendix 5: MAF ECHO (E-01) Results, Sampled on 20 July 2023

**Table 1E: PCB Swipe Sampling**

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Receiver Digital Data (S/N: 0003004) – Surface	Total PCBs	Not Detected	10
Receiver Digital Data (S/N 0003004) – Underside	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Left Visual Display Screen	Total PCBs	Not Detected	10
Battery Access Charger – Surface (PCB sticker)	Total PCBs	Not Detected	10
Battery access charger, Ground Level (PCB sticker)	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3 (S/N: C109586)	Aroclor 1524	1.09	10
	Total PCBs	1.09	10
Right Visual Display Screen (S/N: 0608B025)	Total PCBs	Not Detected	10
Motor Generator - Surface	Aroclor 1524	3.65	10
	Total PCBs	3.65	10
Power Supply (S/N: 0000055) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000055) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel - Underside	Total PCBs	Not Detected	10
Box in Ceiling Entry Way	Total PCBs	Not Detected	10
Brown Panel (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Brown Panel (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10
KL86 (MEADS) - Surface	Total PCBs	Not Detected	10
MAF Table in Common Area	Total PCBs	Not Detected	10



**Table 2E: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3E: Air Sampling Results –Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4E: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	110
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4E: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5E: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.90	0.98	10

**Table 6E: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.0	<4.3	30

**Table 7E: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8E: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9E: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00011	N/A
2-Methylnaphthalene	<0.00010	<0.00011	N/A
4,4'-DDD	<0.00010	<0.00011	N/A
4,4'-DDE	<0.00010	<0.00011	N/A
4,4'-DDT	<0.00010	<0.00011	N/A
Acenaphthene	<0.00010	<0.00011	N/A
Acenaphthylene	<0.00010	<0.00011	N/A
Alachlor	<0.00010	<0.00011	0.002
Aldrin	<0.00010	<0.00011	0.00001
alpha-Chlordane	<0.00010	<0.00011	N/A

**Table 9E: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00011	N/A
Atrazine	<0.00010	<0.00011	0.003
Benzo[a]anthracene	<0.00010	<0.00011	0.0001
Benzo[a]pyrene	<0.000021	<0.000021	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00011	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00011	N/A
Benzo[k]fluoranthene	<0.00010	<0.00011	0.0002
Bromacil	<0.00010	<0.00011	N/A
Butachlor	<0.00010	<0.00011	N/A
Butylbenzylphthalate	<0.0010	<0.0011	N/A
Chlorothalonil	<0.00010	<0.00011	N/A
Chrysene	<0.00010	<0.00011	0.0002
Cyanazine	<0.00010	<0.00011	N/A
Deisopropylatrazine	<0.0010	<0.0011	N/A
Desethylatrazine	<0.0010	<0.0011	N/A
Di(2-ethylhexyl)phthalate	<0.00062	<0.00063	0.006
Di(2-ethylhexyl)adipate	<0.00062	<0.00063	0.40
Diazinon	<0.00010	<0.00011	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00011	0.0003
Dieldrin	<0.00010	<0.00011	N/A
Diethylphthalate	<0.0010	<0.0011	N/A
Dimethoate	<0.00052	<0.00053	N/A
Dimethylphthalate	<0.0010	<0.0011	N/A
Di-n-butylphthalate	<0.0021	<0.0021	N/A
Di-n-octylphthalate	<0.0021	<0.0021	N/A
Endrin	<0.000010	<0.000011	0.002
EPTC	<0.00010	<0.00011	N/A
Fluoranthene	<0.00010	<0.00011	N/A
Fluorene	<0.00010	<0.00011	N/A
gamma-BHC (Lindane)	<0.000021	<0.000021	0.0002
gamma-Chlordane	<0.00010	<0.00011	0.100
Heptachlor	<0.000010	<0.000011	0.0004
Heptachlor Epoxide	<0.000010	<0.000011	0.0002
Hexachlorobenzene	<0.00010	<0.00011	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00011	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00011	0.0004
Malathion	<0.00010	<0.00011	N/A

**Table 9E: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00011	0.04
Metolachlor	<0.00010	<0.00011	N/A
Metribuzin	<0.00010	<0.00011	N/A
Molinate	<0.00010	<0.00011	N/A
Naphthalene	<0.00010	<0.00011	N/A
Parathion	<0.00052	<0.00053	N/A
Phenanthrene	<0.00010	<0.00011	N/A
Prometryn	<0.00010	<0.00011	N/A
Propachlor	<0.00010	<0.00011	N/A
Pyrene	<0.00010	<0.00011	0.0002
Simazine	<0.000072	<0.000074	0.004
Terbacil	<0.00010	<0.00011	N/A
Thiobencarb	<0.00010	<0.00011	N/A
trans-Nonachlor	<0.00010	<0.00011	0.002
Trifluralin	<0.00010	<0.00011	N/A

**Table 10E: Soil Sampling Results**

Analyte	SW of MAF Intake Above Capsule (mg/kg-dry)	SE Corner Inside Fenceline (mg/kg-dry)	SW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10E: Soil Sampling Results Cont.**

Analyte	SE Corner Outside Fenceline (mg/kg-dry)	NE Corner Outside Fenceline (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11E: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	577 ppm	1060 ppm	1000 ppm
Relative Humidity	54.3%	54%	30% - 60%
Temperature	N/A	N/A	72°F - 80°F
Carbon Monoxide	1.8 ppm	1.4 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12E: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	7.7	7.8	6.5 - 8.5
Free Available Chlorine	0.04	0.04	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.04	0	> 0 mg/L; < 4 mg/L

## Appendix 6: MAF FOXTROT (F-01) Results, Sampled on 27 July 2023

Table 1F: PCB Swipe Sampling

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Receiver Digital Data (S/N: 0000053) – Surface	Total PCBs	Not Detected	10
Receiver Digital Data (S/N 0000053) – Underside	Total PCBs	Not Detected	10
Battery Access Charger – Surface (PCB sticker)	Total PCBs	Not Detected	10
Battery access charger, Ground Level (PCB sticker)	Total PCBs	Not Detected	10
Distribution Box - Surface	Total PCBs	Not Detected	10
Distribution Box - Underside	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3 (S/N: C109700)	Total PCBs	Not Detected	10
Left Visual Display Screen (S/N: 0611B020)	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Right Visual Display Screen (S/N: 0611B018)	Total PCBs	Not Detected	10
Top of Motor Generator – Under Floor Plate	Total PCBs	Not Detected	10
Power Supply (S/N: 0000061) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000061) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-024) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-024) - Underside	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/4-015) - Surface	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10



**Table 2F: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3F: Air Sampling Results –Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chloropyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4F: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4F: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5F: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.93	1.00	10

**Table 6F: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.1	<4.5	30

**Table 7F: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8F: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9F: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00011	N/A
2-Methylnaphthalene	<0.00010	<0.00011	N/A
4,4'-DDD	<0.00010	<0.00011	N/A
4,4'-DDE	<0.00010	<0.00011	N/A
4,4'-DDT	<0.00010	<0.00011	N/A
Acenaphthene	<0.00010	<0.00011	N/A
Acenaphthylene	<0.00010	<0.00011	N/A
Alachlor	<0.00010	<0.00011	0.002
Aldrin	<0.00010	<0.00011	0.00001
alpha-Chlordane	<0.00010	<0.00011	N/A

**Table 9F: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00011	N/A
Atrazine	<0.00010	<0.00011	0.003
Benzo[a]anthracene	<0.00010	<0.00011	0.0001
Benzo[a]pyrene	<0.000020	<0.000022	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00011	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00011	N/A
Benzo[k]fluoranthene	<0.00010	<0.00011	0.0002
Bromacil	<0.00010	<0.00011	N/A
Butachlor	<0.00010	<0.00011	N/A
Butylbenzylphthalate	<0.0010	<0.0011	N/A
Chlorothalonil	<0.00010	<0.00011	N/A
Chrysene	<0.00010	<0.00011	0.0002
Cyanazine	<0.00010	<0.00011	N/A
Deisopropylatrazine	<0.0010	<0.0011	N/A
Desethylatrazine	<0.0010	<0.0011	N/A
Di(2-ethylhexyl)phthalate	<0.00061	<0.00065	0.006
Di(2-ethylhexyl)adipate	<0.00061	<0.00065	0.40
Diazinon	<0.00010	<0.00011	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00011	0.0003
Dieldrin	<0.00010	<0.00011	N/A
Diethylphthalate	<0.0010	<0.0011	N/A
Dimethoate	<0.00051	<0.00054	N/A
Dimethylphthalate	<0.0010	<0.0011	N/A
Di-n-butylphthalate	<0.0020	<0.0022	N/A
Di-n-octylphthalate	<0.0020	<0.0022	N/A
Endrin	<0.000010	<0.000011	0.002
EPTC	<0.00010	<0.00011	N/A
Fluoranthene	<0.00010	<0.00011	N/A
Fluorene	<0.00010	<0.00011	N/A
gamma-BHC (Lindane)	<0.000020	<0.000022	0.0002
gamma-Chlordane	<0.00010	<0.00011	0.100
Heptachlor	<0.000010	<0.000011	0.0004
Heptachlor Epoxide	<0.000010	<0.000011	0.0002
Hexachlorobenzene	<0.00010	<0.00011	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00011	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00011	0.0004
Malathion	<0.00010	<0.00011	N/A

**Table 9F: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00011	0.04
Metolachlor	<0.00010	<0.00011	N/A
Metribuzin	<0.00010	<0.00011	N/A
Molinate	<0.00010	<0.00011	N/A
Naphthalene	<0.00010	<0.00011	N/A
Parathion	<0.00051	<0.00054	N/A
Phenanthrene	<0.00010	<0.00011	N/A
Prometryn	<0.00010	<0.00011	N/A
Propachlor	<0.00010	<0.00011	N/A
Pyrene	<0.00010	<0.00011	0.0002
Simazine	<0.000071	<0.000076	0.004
Terbacil	<0.00010	<0.00011	N/A
Thiobencarb	<0.00010	<0.00011	N/A
trans-Nonachlor	<0.00010	<0.00011	0.002
Trifluralin	<0.00010	<0.00011	N/A

**Table 10F: Soil Sampling Results**

Analyte	SW of MAF Near Air Intake Vent (mg/kg-dry)	N of MAF Inside Fenceline (mg/kg-dry)	SW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10F: Soil Sampling Results Cont.**

Analyte	SE Corner Outside Fenceline (mg/kg-dry)	NE Corner Outside Fenceline (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11F: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	595 ppm	612 ppm	1000 ppm
Relative Humidity	57.6%	56.6%	30% - 60%
Temperature	70.8°F	70.6°F	72°F - 80°F
Carbon Monoxide	0.5 ppm	0.7 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12F: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	7.7	7.6	6.5 - 8.5
Free Available Chlorine	0.54	0.03	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.73	0.05	> 0 mg/L; < 4 mg/L

## Appendix 7: MAF GOLF (G-01) Results, Sampled on 26 July 2023

**Table 1G: PCB Swipe Sampling**

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Digital Data Group (S/N: 0000055) – Surface	Aroclor 1254	1.21	10
	Total PCBs	1.21	10
Digital Data Group(S/N: 0000055) – Underside	Total PCBs	Not Detected	10
Battery Charger Access – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Distribution Box - Surface	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Left Visual Display Screen	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Right Visual Display Screen	Total PCBs	Not Detected	10
Top of Motor Generator – Under Floor Plate	Aroclor 1254	2.42	10
	Total PCBs	2.42	10
Power Supply (S/N: 0000056) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000056) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-016) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-016) - Underside	Total PCBs	Not Detected	10
Box in Ceiling of Entry Way	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/4-001) - Surface	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10



**Table 2G: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3G: Air Sampling Results –Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chloropyrifos (Dursban)	<0.0028	<0.0026	<0.0010	<0.0010
Diazinon	<0.0028	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0028	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0028	<0.0026	<0.0010	<0.0010
Malathion	<0.0028	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0028	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0028	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0028	<0.0026	<0.0010	<0.0010
Phorate	<0.0028	<0.0026	<0.0010	<0.0010
Terbufos	<0.0028	<0.0026	<0.0010	<0.0010

**Table 4G: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4G: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5G: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.67	0.65	10

**Table 6G: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.1	<4.3	30

**Table 7G: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8G: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9G: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00011	N/A
2-Methylnaphthalene	<0.00010	<0.00011	N/A
4,4'-DDD	<0.00010	<0.00011	N/A
4,4'-DDE	<0.00010	<0.00011	N/A
4,4'-DDT	<0.00010	<0.00011	N/A
Acenaphthene	<0.00010	<0.00011	N/A
Acenaphthylene	<0.00010	<0.00011	N/A
Alachlor	<0.00010	<0.00011	0.002
Aldrin	<0.00010	<0.00011	0.00001
alpha-Chlordane	<0.00010	<0.00011	N/A

**Table 9G: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00011	N/A
Atrazine	<0.00010	<0.00011	0.003
Benzo[a]anthracene	<0.00010	<0.00011	0.0001
Benzo[a]pyrene	<0.000020	<0.000022	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00011	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00011	N/A
Benzo[k]fluoranthene	<0.00010	<0.00011	0.0002
Bromacil	<0.00010	<0.00011	N/A
Butachlor	<0.00010	<0.00011	N/A
Butylbenzylphthalate	<0.0010	<0.0011	N/A
Chlorothalonil	<0.00010	<0.00011	N/A
Chrysene	<0.00010	<0.00011	0.0002
Cyanazine	<0.00010	<0.00011	N/A
Deisopropylatrazine	<0.0010	<0.0011	N/A
Desethylatrazine	<0.0010	<0.0011	N/A
Di(2-ethylhexyl)phthalate	<0.00061	<0.00065	0.006
Di(2-ethylhexyl)adipate	<0.00061	<0.00065	0.40
Diazinon	<0.00010	<0.00011	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00011	0.0003
Dieldrin	<0.00010	<0.00011	N/A
Diethylphthalate	<0.0010	<0.0011	N/A
Dimethoate	<0.00051	<0.00054	N/A
Dimethylphthalate	<0.0010	<0.0011	N/A
Di-n-butylphthalate	<0.0020	<0.0022	N/A
Di-n-octylphthalate	<0.0020	<0.0022	N/A
Endrin	<0.000010	<0.000011	0.002
EPTC	<0.00010	<0.00011	N/A
Fluoranthene	<0.00010	<0.00011	N/A
Fluorene	<0.00010	<0.00011	N/A
gamma-BHC (Lindane)	<0.000020	<0.000022	0.0002
gamma-Chlordane	<0.00010	<0.00011	0.100
Heptachlor	<0.000010	<0.000011	0.0004
Heptachlor Epoxide	<0.000010	<0.000011	0.0002
Hexachlorobenzene	<0.00010	<0.00011	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00011	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00011	0.0004
Malathion	<0.00010	<0.00011	N/A

**Table 9G: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00011	0.04
Metolachlor	<0.00010	<0.00011	N/A
Metribuzin	<0.00010	<0.00011	N/A
Molinate	<0.00010	<0.00011	N/A
Naphthalene	<0.00010	<0.00011	N/A
Parathion	<0.00051	<0.00054	N/A
Phenanthrene	<0.00010	<0.00011	N/A
Prometryn	<0.00010	<0.00011	N/A
Propachlor	<0.00010	<0.00011	N/A
Pyrene	<0.00010	<0.00011	0.0002
Simazine	<0.000072	<0.000076	0.004
Terbacil	<0.00010	<0.00011	N/A
Thiobencarb	<0.00010	<0.00011	N/A
trans-Nonachlor	<0.00010	<0.00011	0.002
Trifluralin	<0.00010	<0.00011	N/A

**Table 10G: Soil Sampling Results**

Analyte	SW of MAF Near Air Intake Vent (mg/kg-dry)	S of MAF Next to Building (mg/kg-dry)	SW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10G: Soil Sampling Results Cont.**

Analyte	SE Corner Outside Fenceline (mg/kg-dry)	N Corner Outside Fenceline (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11G: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	551 ppm	747 ppm	1000 ppm
Relative Humidity	54.6%	50%	30% - 60%
Temperature	71.2°F	72.7°F	72°F - 80°F
Carbon Monoxide	0 ppm	1.9 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12G: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	7.1	7.4	6.5 - 8.5
Free Available Chlorine	1.49	0.09	> 0 mg/L; < 4 mg/L
Total Available Chlorine	1.55	0.33	> 0 mg/L; < 4 mg/L

## Appendix 8: MAF HOTEL (H-01) Results, Sampled on 25 July 2023

**Table 1H: PCB Swipe Sampling**

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Digital Data Group (S/N: 0000058) – Surface	Total PCBs	Not Detected	10
Digital Data Group(S/N: 0000058) – Underside	Total PCBs	Not Detected	10
Battery Charger Access – Surface (PCB Sticker)	Total PCBs	Lab inadvertently broke sample during extraction	10
Battery Charger Access – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Left Visual Display Screen	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3	Total PCBs	2.26	10
Right Visual Display Screen	Aroclor 1254	1.83	10
	Total PCBs	1.83	10
Top of Motor Generator – Under Floor Plate	Total PCBs	Not Detected	10
Power Supply (S/N: 0000059) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000059) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-023) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-023) - Underside	Total PCBs	Not Detected	10
Box in Ceiling of Entry Way	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Surface	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/4-014) - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10



**Table 2H: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3H: Air Sampling Results – Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4H: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4H: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5H: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.64	0.60	10

**Table 6H: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<3.9	<3.9	30

**Table 7H: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8H: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9H: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00010	N/A
2-Methylnaphthalene	<0.00010	<0.00010	N/A
4,4'-DDD	<0.00010	<0.00010	N/A
4,4'-DDE	<0.00010	<0.00010	N/A
4,4'-DDT	<0.00010	<0.00010	N/A
Acenaphthene	<0.00010	<0.00010	N/A
Acenaphthylene	<0.00010	<0.00010	N/A
Alachlor	<0.00010	<0.00010	0.002
Aldrin	<0.00010	<0.00010	0.00001
alpha-Chlordane	<0.00010	<0.00010	N/A

**Table 9H: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00010	N/A
Atrazine	<0.00010	<0.00010	0.003
Benzo[a]anthracene	<0.00010	<0.00010	0.0001
Benzo[a]pyrene	<0.000020	<0.000020	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00010	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00010	N/A
Benzo[k]fluoranthene	<0.00010	<0.00010	0.0002
Bromacil	<0.00010	<0.00010	N/A
Butachlor	<0.00010	<0.00010	N/A
Butylbenzylphthalate	<0.0010	<0.0010	N/A
Chlorothalonil	<0.00010	<0.00010	N/A
Chrysene	<0.00010	<0.00010	0.0002
Cyanazine	<0.00010	<0.00010	N/A
Deisopropylatrazine	<0.0010	<0.0010	N/A
Desethylatrazine	<0.0010	<0.0010	N/A
Di(2-ethylhexyl)phthalate	<0.00060	<0.00061	0.006
Di(2-ethylhexyl)adipate	<0.00060	<0.00061	0.40
Diazinon	<0.00010	<0.00010	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00010	0.0003
Dieldrin	<0.00010	<0.00010	N/A
Diethylphthalate	<0.0010	<0.0010	N/A
Dimethoate	<0.00050	<0.00051	N/A
Dimethylphthalate	<0.0010	<0.0010	N/A
Di-n-butylphthalate	<0.0020	<0.0020	N/A
Di-n-octylphthalate	<0.0020	<0.0020	N/A
Endrin	<0.000010	<0.000010	0.002
EPTC	<0.00010	<0.00010	N/A
Fluoranthene	<0.00010	<0.00010	N/A
Fluorene	<0.00010	<0.00010	N/A
gamma-BHC (Lindane)	<0.000020	<0.000020	0.0002
gamma-Chlordane	<0.00010	<0.00010	0.100
Heptachlor	<0.000010	<0.000010	0.0004
Heptachlor Epoxide	<0.000010	<0.000010	0.0002
Hexachlorobenzene	<0.00010	<0.00010	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00010	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00010	0.0004
Malathion	<0.00010	<0.00010	N/A

**Table 9H: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00010	0.04
Metolachlor	<0.00010	<0.00010	N/A
Metribuzin	<0.00010	<0.00010	N/A
Molinate	<0.00010	<0.00010	N/A
Naphthalene	<0.00010	<0.00010	N/A
Parathion	<0.00050	<0.00051	N/A
Phenanthrene	<0.00010	<0.00010	N/A
Prometryn	<0.00010	<0.00010	N/A
Propachlor	<0.00010	<0.00010	N/A
Pyrene	<0.00010	<0.00010	0.0002
Simazine	<0.000070	<0.000071	0.004
Terbacil	<0.00010	<0.00010	N/A
Thiobencarb	<0.00010	<0.00010	N/A
trans-Nonachlor	<0.00010	<0.00010	0.002
Trifluralin	<0.00010	<0.00010	N/A

**Table 10H: Soil Sampling Results**

Analyte	W of MAF Near Air Intake Vent (mg/kg-dry)	SW of MAF Near Radio Tower (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10H: Soil Sampling Results Cont.**

Analyte	SW Corner Outside Fenceline (mg/kg-dry)	SE Corner Outside Fenceline (mg/kg-dry)	NE Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11H: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	513 ppm	485 ppm	1000 ppm
Relative Humidity	68.5%	41.4%	30% - 60%
Temperature	71.3°F	72.8°F	72°F - 80°F
Carbon Monoxide	0 ppm	0.1 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12H: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	7.7	7.5	6.5 - 8.5
Free Available Chlorine	0.93	0.05	> 0 mg/L; < 4 mg/L
Total Available Chlorine	1.2	0.03	> 0 mg/L; < 4 mg/L

## Appendix 9: MAF INDIA (I-01) Results, Sampled on 23 July 2023

Table 11: PCB Swipe Sampling

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Receiver Digital Data (SN: 0003050) – Surface	Total PCBs	Not Detected	10
Receiver Digital Data (SN: 0003050) – Underside	Total PCBs	Not Detected	10
Battery Charger Access – Surface (PCB sticker)	Total PCBs	Not Detected	10
Battery Charger Access – Ground Level (PCB sticker)	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Left Visual Display Screen	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Right Visual Display Screen	Total PCBs	Not Detected	10
Power Supply (S/N: 0000004) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000004) – Underside	Total PCBs	Not Detected	10
Top of Motor Generator – Under Floor Plate	Aroclor 1254	1.30	10
	Total PCBs	1.30	10
Wing 3 LCDS Panel (S/N: 12-26293/6-021) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-021) - Underside	Total PCBs	Not Detected	10
Box in Ceiling of Entry Way	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10
KL86 (MEADS) Buttons	Total PCBs	Not Detected	10
Common Dining Room Table	Total PCBs	Not Detected	10



**Table 2I: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3I: Air Sampling Results – Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4I: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	0.012	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4I: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5I: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.35	0.35	10

**Table 6I: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.1	<4.3	30

**Table 7I: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8I: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9I: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00010	N/A
2-Methylnaphthalene	<0.00010	<0.00010	N/A
4,4'-DDD	<0.00010	<0.00010	N/A
4,4'-DDE	<0.00010	<0.00010	N/A
4,4'-DDT	<0.00010	<0.00010	N/A
Acenaphthene	<0.00010	<0.00010	N/A
Acenaphthylene	<0.00010	<0.00010	N/A
Alachlor	<0.00010	<0.00010	0.002
Aldrin	<0.00010	<0.00010	0.00001
alpha-Chlordane	<0.00010	<0.00010	N/A

**Table 9I: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00010	N/A
Atrazine	<0.00010	<0.00010	0.003
Benzo[a]anthracene	<0.00010	<0.00010	0.0001
Benzo[a]pyrene	<0.000020	<0.000021	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00010	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00010	N/A
Benzo[k]fluoranthene	<0.00010	<0.00010	0.0002
Bromacil	<0.00010	<0.00010	N/A
Butachlor	<0.00010	<0.00010	N/A
Butylbenzylphthalate	<0.0010	<0.0010	N/A
Chlorothalonil	<0.00010	<0.00010	N/A
Chrysene	<0.00010	<0.00010	0.0002
Cyanazine	<0.00010	<0.00010	N/A
Deisopropylatrazine	<0.0010	<0.0010	N/A
Desethylatrazine	<0.0010	<0.0010	N/A
Di(2-ethylhexyl)phthalate	<0.00060	<0.00062	0.006
Di(2-ethylhexyl)adipate	<0.00060	<0.00062	0.40
Diazinon	<0.00010	<0.00010	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00010	0.0003
Dieldrin	<0.00010	<0.00010	N/A
Diethylphthalate	<0.0010	<0.0010	N/A
Dimethoate	<0.00050	<0.00050	N/A
Dimethylphthalate	<0.0010	<0.0010	N/A
Di-n-octylphthalate	<0.0020	<0.0021	N/A
Endrin	<0.0020	<0.0021	0.002
EPTC	<0.000010	<0.000010	N/A
Fluoranthene	<0.00010	<0.00010	N/A
Fluorene	<0.00010	<0.00010	N/A
gamma-BHC (Lindane)	<0.00010	<0.00010	N/A
gamma-Chlordane	<0.000020	<0.000021	0.0002
Heptachlor	<0.00010	<0.00010	0.0004
Heptachlor Epoxide	<0.000010	<0.000010	0.0002
Hexachlorobenzene	<0.000010	<0.000010	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00010	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00010	0.0004
Malathion	<0.00010	<0.00010	N/A

**Table 9I: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00010	0.04
Metolachlor	<0.00010	<0.00010	N/A
Metribuzin	<0.00010	<0.00010	N/A
Molinate	<0.00010	<0.00010	N/A
Naphthalene	<0.00010	<0.00010	N/A
Parathion	<0.00050	<0.00052	N/A
Phenanthrene	<0.00010	<0.00010	N/A
Prometryn	<0.00010	<0.00010	N/A
Propachlor	<0.00010	<0.00010	N/A
Pyrene	<0.00010	<0.00010	0.0002
Simazine	<0.000070	<0.000072	0.004
Terbacil	<0.00010	<0.00010	N/A
Thiobencarb	<0.00010	<0.00010	N/A
trans-Nonachlor	<0.00010	<0.00010	0.002
Trifluralin	<0.00010	<0.00010	N/A

**Table 10I: Soil Sampling Results**

Analyte	W of MAF Near Air Intake Vent (mg/kg-dry)	W of MAF Near Cones (mg/kg-dry)	W Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10I: Soil Sampling Results Cont.**

Analyte	S Corner Outside Fenceline (mg/kg-dry)	E Corner Outside Fenceline (mg/kg-dry)	N Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11I: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	524 ppm	645 ppm	1000 ppm
Relative Humidity	60%	45.8%	30% - 60%
Temperature	71.6°F	72.5°F	72°F - 80°F
Carbon Monoxide	0.4 ppm	2.5 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12I: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	7.9	7.8	6.5 - 8.5
Free Available Chlorine	0	0.07	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.02	0.03	> 0 mg/L; < 4 mg/L

## Appendix 10: MAF JULIET (J-01) Results, Sampled on 22 July 2023

**Table 1J: PCB Swipe Sampling**

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Battery Charger Access (S/N: 0000683) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access (S/N: 0000683) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Surface	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Underside	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0003044) – Surface	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0003044) – Underside	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3 (S/N: C109407)	Aroclor 1254	1.15	10
	Total PCBs	1.15	10
Left Visual Display Screen (S/N: 0602B048)	Total PCBs	Not Detected	10
Motor Generator - Surface	Aroclor 1254	2.02	10
	Total PCBs	2.02	10
Right Keyboard Above T1/T2/T3 (S/N: C109703)	Aroclor 1254	1.32	10
	Total PCBs	1.32	10
Right Visual Display Screen (S/N: 0605B077)	Total PCBs	Not Detected	10
Power Supply (S/N: 0000081) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000081) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-002) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-002) - Underside	Aroclor 1254	1.81	10
	Total PCBs	1.81	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10
Common Room Dining Table	Total PCBs	Not Detected	10



**Table 2J: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3J: Air Sampling Results –Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4J: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4J: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5J: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	1.40	1.50	10

**Table 6J: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.2	<4.3	30

**Table 7J: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8J: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9J: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00010	N/A
2-Methylnaphthalene	<0.00010	<0.00010	N/A
4,4'-DDD	<0.00010	<0.00010	N/A
4,4'-DDE	<0.00010	<0.00010	N/A
4,4'-DDT	<0.00010	<0.00010	N/A
Acenaphthene	<0.00010	<0.00010	N/A
Acenaphthylene	<0.00010	<0.00010	N/A
Alachlor	<0.00010	<0.00010	0.002
Aldrin	<0.00010	<0.00010	0.00001
alpha-Chlordane	<0.00010	<0.00010	N/A

**Table 9J: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00010	N/A
Atrazine	<0.00010	<0.00010	0.003
Benzo[a]anthracene	<0.00010	<0.00010	0.0001
Benzo[a]pyrene	<0.000021	<0.000021	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00010	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00010	N/A
Benzo[k]fluoranthene	<0.00010	<0.00010	0.0002
Bromacil	<0.00010	<0.00010	N/A
Butachlor	<0.00010	<0.00010	N/A
Butylbenzylphthalate	<0.0010	<0.0010	N/A
Chlorothalonil	<0.00010	<0.00010	N/A
Chrysene	<0.00010	<0.00010	0.0002
Cyanazine	<0.00010	<0.00010	N/A
Deisopropylatrazine	<0.0010	<0.0010	N/A
Desethylatrazine	<0.0010	<0.0010	N/A
Di(2-ethylhexyl)phthalate	<0.00062	<0.00062	0.006
Di(2-ethylhexyl)adipate	<0.00062	<0.00062	0.40
Diazinon	<0.00010	<0.00010	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00010	0.0003
Dieldrin	<0.00010	<0.00010	N/A
Diethylphthalate	<0.0010	<0.0010	N/A
Dimethoate	<0.00052	<0.00051	N/A
Dimethylphthalate	<0.0010	<0.0010	N/A
Di-n-butylphthalate	<0.0021	<0.0021	N/A
Di-n-octylphthalate	<0.0021	<0.0021	N/A
Endrin	<0.000010	<0.000010	0.002
EPTC	<0.00010	<0.00010	N/A
Fluoranthene	<0.00010	<0.00010	N/A
Fluorene	<0.00010	<0.00010	N/A
gamma-BHC (Lindane)	<0.000021	<0.000021	0.0002
gamma-Chlordane	<0.00010	<0.00010	0.100
Heptachlor	<0.000010	<0.000010	0.0004
Heptachlor Epoxide	<0.000010	<0.000010	0.0002
Hexachlorobenzene	<0.00010	<0.00010	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00010	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00010	0.0004
Malathion	<0.00010	<0.00010	N/A

**Table 9J: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00010	0.04
Metolachlor	<0.00010	<0.00010	N/A
Metribuzin	<0.00010	<0.00010	N/A
Molinate	<0.00010	<0.00010	N/A
Naphthalene	<0.00010	<0.00010	N/A
Parathion	<0.00052	<0.00051	N/A
Phenanthrene	<0.00010	<0.00010	N/A
Prometryn	<0.00010	<0.00010	N/A
Propachlor	<0.00010	<0.00010	N/A
Pyrene	<0.00010	<0.00010	0.0002
Simazine	<0.000072	<0.000072	0.004
Terbacil	<0.00010	<0.00010	N/A
Thiobencarb	<0.00010	<0.00010	N/A
trans-Nonachlor	<0.00010	<0.00010	0.002
Trifluralin	<0.00010	<0.00010	N/A

**Table 10J: Soil Sampling Results**

Analyte	NW of MAF Near Air Intake Vent (mg/kg-dry)	SW of MAF Behind Garage (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10J: Soil Sampling Results Cont.**

<b>Analyte</b>	<b>SW Corner Outside Fenceline (mg/kg-dry)</b>	<b>SE Corner Outside Fenceline (mg/kg-dry)</b>	<b>NE Corner Outside Fenceline (mg/kg-dry)</b>
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11J: Air Direct Reading Values**

<b>Analyte</b>	<b>Topside Measured Value</b>	<b>LCC Measure Value</b>	<b>Recommended Range</b>
Carbon Dioxide	484 ppm	1017 ppm	1000 ppm
Relative Humidity	57.1%	39.9%	30% - 60%
Temperature	71.4°F	68.9°F	72°F - 80°F
Carbon Monoxide	0.5 ppm	3.4 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12J: Water Direct Reading Values**

<b>Analyte</b>	<b>Topside Measured Value</b>	<b>LCC Measured Value</b>	<b>Recommended Range</b>
pH	6.9	6.9	6.5 - 8.5
Free Available Chlorine	0.05	0.04	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.17	0.06	> 0 mg/L; < 4 mg/L

## Appendix 11: MAF KILO (K-01) Results, Sampled on 24 July 2023

Table 1K: PCB Swipe Sampling

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Battery Charger Access (S/N: 0000412) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access (S/N: 0000412) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Surface	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Underside	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0002001) – Surface	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0002001) – Underside	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Left Visual Display Screen (S/N: 0611B005)	Total PCBs	Not Detected	10
Motor Generator - Surface	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3	Total PCBs	Not Detected	10
Right Visual Display Screen (S/N: 0611B008)	Total PCBs	Not Detected	10
Power Supply (S/N: 0000049) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000049) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-003) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-003) - Underside	Aroclor 1254	5.38	10
	Total PCBs	5.38	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10
Common Room Dining Table	Total PCBs	Not Detected	10



**Table 2K: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3K: Air Sampling Results – Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4K: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4K: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5K: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.80	0.91	10

**Table 6K: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.1	<4.2	30

**Table 7K: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8K: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9K: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00010	N/A
2-Methylnaphthalene	<0.00010	<0.00010	N/A
4,4'-DDD	<0.00010	<0.00010	N/A
4,4'-DDE	<0.00010	<0.00010	N/A
4,4'-DDT	<0.00010	<0.00010	N/A
Acenaphthene	<0.00010	<0.00010	N/A
Acenaphthylene	<0.00010	<0.00010	N/A
Alachlor	<0.00010	<0.00010	0.002
Aldrin	<0.00010	<0.00010	0.00001
alpha-Chlordane	<0.00010	<0.00010	N/A

**Table 9K: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00010	N/A
Atrazine	<0.00010	<0.00010	0.003
Benzo[a]anthracene	<0.00010	<0.00010	0.0001
Benzo[a]pyrene	<0.000021	<0.000020	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00010	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00010	N/A
Benzo[k]fluoranthene	<0.00010	<0.00010	0.0002
Bromacil	<0.00010	<0.00010	N/A
Butachlor	<0.00010	<0.00010	N/A
Butylbenzylphthalate	<0.0010	<0.0010	N/A
Chlorothalonil	<0.00010	<0.00010	N/A
Chrysene	<0.00010	<0.00010	0.0002
Cyanazine	<0.00010	<0.00010	N/A
Deisopropylatrazine	<0.0010	<0.0010	N/A
Desethylatrazine	<0.0010	<0.0010	N/A
Di(2-ethylhexyl)phthalate	<0.00062	<0.00061	0.006
Di(2-ethylhexyl)adipate	<0.00062	<0.00061	0.40
Diazinon	<0.00010	<0.00010	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00010	0.0003
Dieldrin	<0.00010	<0.00010	N/A
Diethylphthalate	<0.0010	<0.0010	N/A
Dimethoate	<0.00051	<0.00051	N/A
Dimethylphthalate	<0.0010	<0.0010	N/A
Di-n-butylphthalate	<0.0021	<0.0020	N/A
Di-n-octylphthalate	<0.0021	<0.0020	N/A
Endrin	<0.000010	<0.000010	0.002
EPTC	<0.00010	<0.00010	N/A
Fluoranthene	<0.00010	<0.00010	N/A
Fluorene	<0.00010	<0.00010	N/A
gamma-BHC (Lindane)	<0.000021	<0.000020	0.0002
gamma-Chlordane	<0.00010	<0.00010	0.100
Heptachlor	<0.000010	<0.000010	0.0004
Heptachlor Epoxide	<0.000010	<0.000010	0.0002
Hexachlorobenzene	<0.00010	<0.00010	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00010	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00010	0.0004
Malathion	<0.00010	<0.00010	N/A

**Table 9K: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00010	0.04
Metolachlor	<0.00010	<0.00010	N/A
Metribuzin	<0.00010	<0.00010	N/A
Molinate	<0.00010	<0.00010	N/A
Naphthalene	<0.00010	<0.00010	N/A
Parathion	<0.00051	<0.00051	N/A
Phenanthrene	<0.00010	<0.00010	N/A
Prometryn	<0.00010	<0.00010	N/A
Propachlor	<0.00010	<0.00010	N/A
Pyrene	<0.00010	<0.00010	0.0002
Simazine	<0.000072	<0.000071	0.004
Terbacil	<0.00010	<0.00010	N/A
Thiobencarb	<0.00010	<0.00010	N/A
trans-Nonachlor	<0.00010	<0.00010	0.002
Trifluralin	<0.00010	<0.00010	N/A

**Table 10K: Soil Sampling Results**

Analyte	SW of MAF Near Air Intake Vent (mg/kg-dry)	NW of MAF Behind Garage (mg/kg-dry)	SW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10K: Soil Sampling Results Cont.**

Analyte	SE Corner Outside Fenceline (mg/kg-dry)	NE Corner Outside Fenceline (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11K: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	460 ppm	971 ppm	1000 ppm
Relative Humidity	68.8%	40.6%	30% - 60%
Temperature	70.8°F	71.2°F	72°F - 80°F
Carbon Monoxide	0.4 ppm	3.5 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12K: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	7.7	7.7	6.5 - 8.5
Free Available Chlorine	0.76	0	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.87	0.05	> 0 mg/L; < 4 mg/L

## Appendix 12: MAF LIMA (L-01) Results, Sampled on 22 July 2023

Table 1L: PCB Swipe Sampling

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Digital Data Group (S/N: 0003005) – Surface	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0003005) – Underside	Total PCBs	Not Detected	10
Battery Charger Access – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3 (S/N: C109544)	Aroclor 1254	1.24	10
	Total PCBs	1.24	10
Left Visual Display Screen	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3 (S/N: C109555)	Total PCBs	Not Detected	10
Right Visual Display Screen	Total PCBs	Not Detected	10
Top of Motor Generator – Under Floor Plate	Total PCBs	Not Detected	10
Power Supply (S/N: 0000056) – Surface	Total PCBs	1.04	10
	Total PCBs	1.04	10
Power Supply (S/N: 0000056) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-016) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-016) - Underside	Total PCBs	Not Detected	10
Box in Ceiling of Entry Way	Total PCBs	Not Detected	10
AC Power Distribution Box Ref 364 - Surface	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Aroclor 1254	1.56	10
	Total PCBs	1.56	10
MPP Access Cover	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10
KL86 (MEADS) Buttons	Total PCBs	Not Detected	10



**Table 2L: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3L: Air Sampling Results – Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4L: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	180
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4L: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5L: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.34	0.33	10

**Table 6L: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.0	<4.1	30

**Table 7L: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8L: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9L: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.00010	N/A
2-Methylnaphthalene	<0.00010	<0.00010	N/A
4,4'-DDD	<0.00010	<0.00010	N/A
4,4'-DDE	<0.00010	<0.00010	N/A
4,4'-DDT	<0.00010	<0.00010	N/A
Acenaphthene	<0.00010	<0.00010	N/A
Acenaphthylene	<0.00010	<0.00010	N/A
Alachlor	<0.00010	<0.00010	0.002
Aldrin	<0.00010	<0.00010	0.00001
alpha-Chlordane	<0.00010	<0.00010	N/A

**Table 9L: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.00010	<0.00010	N/A
Atrazine	<0.00010	<0.00010	0.003
Benzo[a]anthracene	<0.00010	<0.00010	0.0001
Benzo[a]pyrene	<0.000020	<0.000020	0.0002
Benzo[b]fluoranthene	<0.00010	<0.00010	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.00010	N/A
Benzo[k]fluoranthene	<0.00010	<0.00010	0.0002
Bromacil	<0.00010	<0.00010	N/A
Butachlor	<0.00010	<0.00010	N/A
Butylbenzylphthalate	<0.0010	<0.0010	N/A
Chlorothalonil	<0.00010	<0.00010	N/A
Chrysene	<0.00010	<0.00010	0.0002
Cyanazine	<0.00010	<0.00010	N/A
Deisopropylatrazine	<0.0010	<0.0010	N/A
Desethylatrazine	<0.0010	<0.0010	N/A
Di(2-ethylhexyl)phthalate	<0.00061	< 0.00060	0.006
Di(2-ethylhexyl)adipate	<0.00061	< 0.00060	0.40
Diazinon	<0.00010	<0.00010	N/A
Dibenz[a,h]anthracene	<0.00010	<0.00010	0.0003
Dieldrin	<0.00010	<0.00010	N/A
Diethylphthalate	<0.0010	<0.0010	N/A
Dimethoate	<0.00051	<0.00050	N/A
Dimethylphthalate	<0.0010	<0.0010	N/A
Di-n-butylphthalate	<0.0020	<0.0020	N/A
Di-n-octylphthalate	<0.0020	<0.0020	N/A
Endrin	<0.000010	<0.000010	0.002
EPTC	<0.00010	<0.00010	N/A
Fluoranthene	<0.00010	<0.00010	N/A
Fluorene	<0.00010	<0.00010	N/A
gamma-BHC (Lindane)	<0.000020	<0.000020	0.0002
gamma-Chlordane	<0.00010	<0.00010	0.100
Heptachlor	<0.000010	<0.000010	0.0004
Heptachlor Epoxide	<0.000010	<0.000010	0.0002
Hexachlorobenzene	<0.00010	<0.00010	0.001
Hexachlorocyclopentadiene	<0.00010	<0.00010	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.00010	0.0004
Malathion	<0.00010	<0.00010	N/A

**Table 9L: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.00010	0.04
Metolachlor	<0.00010	<0.00010	N/A
Metribuzin	<0.00010	<0.00010	N/A
Molinate	<0.00010	<0.00010	N/A
Naphthalene	<0.00010	<0.00010	N/A
Parathion	<0.00051	<0.00050	N/A
Phenanthrene	<0.00010	<0.00010	N/A
Prometryn	<0.00010	<0.00010	N/A
Propachlor	<0.00010	<0.00010	N/A
Pyrene	<0.00010	<0.00010	0.0002
Simazine	<0.000071	<0.000070	0.004
Terbacil	<0.00010	<0.00010	N/A
Thiobencarb	<0.00010	<0.00010	N/A
trans-Nonachlor	<0.00010	<0.00010	0.002
Trifluralin	<0.00010	<0.00010	N/A

**Table 10L: Soil Sampling Results**

Analyte	NW of MAF Near Air Intake Vent (mg/kg-dry)	NW of MAF Near Concrete Circle (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10L: Soil Sampling Results Cont.**

Analyte	SW Corner Outside Fenceline (mg/kg-dry)	SE Corner Outside Fenceline (mg/kg-dry)	NE Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Sample Broken During Shipping	Not Detected	Not Detected
Phorate		Not Detected	Not Detected
Parathion		Not Detected	Not Detected
Methamidophos		Not Detected	Not Detected
Malathion		Not Detected	Not Detected
Ethoprop		Not Detected	Not Detected
Dicrotophos		Not Detected	Not Detected
Diazinon		Not Detected	Not Detected
Chlorpyrifos		Not Detected	Not Detected
Terbufos		Not Detected	Not Detected

**Table 11L: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	470 ppm	692 ppm	1000 ppm
Relative Humidity	57.7%	42.9%	30% - 60%
Temperature	71.6°F	69.3°F	72°F - 80°F
Carbon Monoxide	0 ppm	2.3 ppm	25 ppm (8-hr TWA)
Ozone	0	0	0.1 ppm (8-hr TWA)

**Table 12L: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	>8.5	>8.5	6.5 - 8.5
Free Available Chlorine	0.41	0.08	> 0 mg/L; < 4 mg/L
Total Available Chlorine	0.48	0.48	> 0 mg/L; < 4 mg/L

## Appendix 13: MAF MIKE (M-01) Results, Sampled on 25 July 2023

**Table 1M: PCB Swipe Sampling**

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Battery Charger Access (S/N: 8000007) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access (S/N: 8000007) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Surface	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Underside	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0003025) – Surface	Total PCBs	Not Detected	10
Digital Data Group(S/N: 0003025) – Underside	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3 (S/N: C109699)	Total PCBs	Not Detected	10
Left Visual Display Screen (S/N: 0549B038)	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3 (S/N: C109706)	Total PCBs	Not Detected	10
Right Console Display Screen (S/N: 0549B039)	Total PCBs	Not Detected	10
Motor Generator - Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000066) – Surface	Total PCBs	Not Detected	10
Power Supply (S/N: 0000066) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-018) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-018) - Underside	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Processor - Surface	Total PCBs	Not Detected	10
Power Control Distribution Unit – Under Right Console	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10



**Table 2M: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3M: Air Sampling Results – Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4M: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	0.012	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4M: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	0.014	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5M: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.40	0.36	10

**Table 6M: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.1	<4.0	30

**Table 7M: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8M: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9M: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.00010	<0.000099	N/A
2-Methylnaphthalene	<0.00010	<0.000099	N/A
4,4'-DDD	<0.00010	<0.000099	N/A
4,4'-DDE	<0.00010	<0.000099	N/A
4,4'-DDT	<0.00010	<0.000099	N/A
Acenaphthene	<0.00010	<0.000099	N/A
Acenaphthylene	<0.00010	<0.000099	N/A
Alachlor	<0.00010	<0.000099	0.002
Aldrin	<0.00010	<0.000099	0.00001
Anthracene	<0.00010	<0.000099	N/A

**Table 9M: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Atrazine	<0.00010	<0.000099	0.003
Benthiocarb	<0.00010	<0.000099	
Benzo[a]anthracene	<0.00010	<0.000099	0.0001
Benzo[a]pyrene	<0.000020	<0.000020	0.0002
Benzo[b]fluoranthene	<0.00010	<0.000099	0.0002
Benzo[g,h,i]perylene	<0.00010	<0.000099	N/A
Benzo[k]fluoranthene	<0.00010	<0.000099	0.0002
Bromacil	<0.00010	<0.000099	N/A
Butachlor	<0.00010	<0.000099	N/A
Butylbenzylphthalate	<0.0010	<0.00099	N/A
Chlorothalonil	<0.00010	<0.000099	N/A
Chrysene	<0.00010	<0.000099	0.0002
Cyanazine	<0.00010	<0.000099	N/A
Deisopropylatrazine	<0.0010	<0.00099	N/A
Desethylatrazine	<0.0010	<0.00099	N/A
Di(2-ethylhexyl)phthalate	<0.00060	<0.00059	0.006
Di(2-ethylhexyl)adipate	<0.00060	<0.00059	0.40
Diazinon	<0.00010	<0.000099	N/A
Dibenz[a,h]anthracene	<0.00010	<0.000099	0.0003
Dieldrin	<0.00010	<0.000099	N/A
Diethylphthalate	<0.0010	<0.00099	N/A
Dimethoate	<0.00050	<0.00049	N/A
Dimethylphthalate	<0.0010	<0.00099	N/A
Di-n-butylphthalate	<0.0020	<0.0020	N/A
Di-n-octylphthalate	<0.0020	<0.0020	N/A
Endrin	<0.000010	<0.000099	0.002
EPTC	<0.00010	<0.000099	N/A
Fluoranthene	<0.00010	<0.000099	N/A
Fluorene	<0.00010	<0.000099	N/A
gamma-BHC (Lindane)	<0.000020	<0.000020	N/A
gamma-Chlordane	<0.00010	<0.000099	0.0002
Heptachlor	<0.000010	<0.000099	0.0004
Heptachlor Epoxide	<0.000010	<0.000099	0.0002
Hexachlorobenzene	<0.00010	<0.000099	0.001
Hexachlorocyclopentadiene	<0.00010	<0.000099	0.05
Indeno[1,2,3-cd]pyrene	<0.00010	<0.000099	0.0004
Malathion	<0.00010	<0.000099	N/A

**Table 9M: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.00010	<0.000099	0.04
Metolachlor	<0.00010	<0.000099	N/A
Metribuzin	<0.00010	<0.000099	N/A
Molinate	<0.00010	<0.000099	N/A
Naphthalene	<0.00010	<0.000099	N/A
Parathion	<0.00052	<0.00049	
Phenanthrene	<0.00010	<0.000099	N/A
Prometryn	<0.00010	<0.000099	N/A
Propachlor	<0.00010	<0.000099	N/A
Pyrene	<0.00010	<0.000099	0.0002
Simazine	<0.000070	<0.000069	0.004
Terbacil	<0.00010	<0.000099	N/A
Thiobencarb	<0.00010	<0.000099	N/A
trans-Nonachlor	<0.00010	<0.000099	0.002
Trifluralin	<0.00010	<0.000099	N/A

**Table 10M: Soil Sampling Results**

Analyte	NW of MAF Near Air Intake Vent (mg/kg-dry)	NE of MAF Inside Fenceline (mg/kg-dry)	NE Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10M: Soil Sampling Results Cont.**

<b>Analyte</b>	<b>SW Corner Outside Fenceline (mg/kg-dry)</b>	<b>SE Corner Outside Fenceline (mg/kg-dry)</b>	<b>NW Corner Outside Fenceline (mg/kg-dry)</b>
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11M: Air Direct Reading Values**

<b>Analyte</b>	<b>Topside Measured Value</b>	<b>LCC Measure Value</b>	<b>Recommended Range</b>
Carbon Dioxide	530 ppm	762 ppm	1000 ppm
Relative Humidity	67.6%	32.7%	30% - 60%
Temperature	72°F	71.0°F	72°F - 80°F
Carbon Monoxide	0.7 ppm	7.2 ppm	25 ppm (8-hr TWA)
Ozone	0	0	0.1 ppm (8-hr TWA)

**Table 12M: Water Direct Reading Values**

<b>Analyte</b>	<b>Topside Measured Value</b>	<b>LCC Measured Value</b>	<b>Recommended Range</b>
pH	>8.5	>8.5	6.5 - 8.5
Free Available Chlorine	1.35	0.02	> 0 mg/L; < 4 mg/L
Total Available Chlorine	1.56	0.48	> 0 mg/L; < 4 mg/L

# Appendix 14: MAF NOVEMBER (N-01) Results, Sampled on 26 July 2023

Table 1N: PCB Swipe Sampling

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Battery Charger Access – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Surface	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Underside	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0003046) – Surface	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0003046) – Underside	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3 (S/N: C109621)	Aroclor 1254	3.49	10
	Total PCBs	3.49	10
Left Visual Display Screen (S/N: 0615B052)	Aroclor 1254	1.60	10
	Total PCBs	1.60	10
Right Keyboard Above T1/T2/T3 (S/N: C109628)	Aroclor 1254	1.23	10
	Total PCBs	1.23	10
Right Visual Display Screen (S/N: 0615B053)	Total PCBs	Not Detected	10
Motor Generator - Surface	Aroclor 1254	4.16	10
	Total PCBs	4.16	10
Power Supply (S/N: 0000047) – Surface	Aroclor 1254	1.75	10
	Total PCBs	1.75	10
Power Supply (S/N: 0000047) – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-019) - Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel (S/N: 12-26293/6-019) - Underside	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10
Common Area Dining Table	Total PCBs	Not Detected	10



**Table 2N: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 3N: Air Sampling Results – Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 4N: Air Sampling Results – VOCs**

Analyte	LCC Result (µg/m <sup>3</sup> )	Topside Result (µg/m <sup>3</sup> )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 4N: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 5N: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.87	0.74	10

**Table 6N: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.1	<4.2	30

**Table 7N: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 8N: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 9N: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.000099	<0.00010	N/A
2-Methylnaphthalene	<0.000099	<0.00010	N/A
4,4'-DDD	<0.000099	<0.00010	N/A
4,4'-DDE	<0.000099	<0.00010	N/A
4,4'-DDT	<0.000099	<0.00010	N/A
Acenaphthene	<0.000099	<0.00010	N/A
Acenaphthylene	<0.000099	<0.00010	N/A
Alachlor	<0.000099	<0.00010	0.002
Aldrin	<0.000099	<0.00010	0.00001
alpha-Chlordane	<0.000099	<0.00010	N/A

**Table 9N: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.000099	<0.00010	N/A
Atrazine	<0.000099	<0.00010	0.003
Benzo[a]anthracene	<0.000099	<0.00010	0.0001
Benzo[a]pyrene	<0.000020	<0.000021	0.0002
Benzo[b]fluoranthene	<0.000099	<0.00010	0.0002
Benzo[g,h,i]perylene	<0.000099	<0.00010	N/A
Benzo[k]fluoranthene	<0.000099	<0.00010	0.0002
Bromacil	<0.000099	<0.00010	N/A
Butachlor	<0.000099	<0.00010	N/A
Butylbenzylphthalate	<0.00099	<0.0010	N/A
Chlorothalonil	<0.000099	<0.00010	N/A
Chrysene	<0.000099	<0.00010	0.0002
Cyanazine	<0.000099	<0.00010	N/A
Deisopropylatrazine	<0.00099	<0.0010	N/A
Desethylatrazine	<0.00099	<0.0010	N/A
Di(2-ethylhexyl)phthalate	<0.00059	<0.00062	0.006
Di(2-ethylhexyl)adipate	<0.00059	<0.00062	0.40
Diazinon	<0.000099	<0.00010	N/A
Dibenz[a,h]anthracene	<0.000099	<0.00010	0.0003
Dieldrin	<0.000099	<0.00010	N/A
Diethylphthalate	<0.00099	<0.0010	N/A
Dimethoate	<0.00050	<0.00051	N/A
Dimethylphthalate	<0.00099	<0.0010	N/A
Di-n-butylphthalate	<0.0020	<0.0021	N/A
Di-n-octylphthalate	<0.0020	<0.0021	N/A
Endrin	<0.000099	<0.000010	0.002
EPTC	<0.000099	<0.00010	N/A
Fluoranthene	<0.000099	<0.00010	N/A
Fluorene	<0.000099	<0.00010	N/A
gamma-BHC (Lindane)	<0.000020	<0.000020	0.0002
gamma-Chlordane	<0.000099	<0.00010	0.100
Heptachlor	<0.000099	<0.000010	0.0004
Heptachlor Epoxide	<0.0000099	<0.000010	0.0002
Hexachlorobenzene	<0.0000099	<0.00010	0.001
Hexachlorocyclopentadiene	<0.000099	<0.00010	0.05
Indeno[1,2,3-cd]pyrene	<0.000099	<0.00010	0.0004
Malathion	<0.000099	<0.00010	N/A

**Table 9N: Water Sampling Results –Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.000099	<0.00010	0.04
Metolachlor	<0.000099	<0.00010	N/A
Metribuzin	<0.000099	<0.00010	N/A
Molinate	<0.000099	<0.00010	N/A
Naphthalene	<0.000099	<0.00010	N/A
Parathion	<0.00050	<0.00051	N/A
Phenanthrene	<0.000099	<0.00010	N/A
Prometryn	<0.000099	<0.00010	N/A
Propachlor	<0.000099	<0.00010	N/A
Pyrene	<0.000099	<0.00010	0.0002
Simazine	<0.000069	<0.000072	0.004
Terbacil	<0.000099	<0.00010	N/A
Thiobencarb	<0.000099	<0.00010	N/A
trans-Nonachlor	<0.000099	<0.00010	0.002
Trifluralin	<0.000099	<0.00010	N/A

**Table 10N: Soil Sampling Results**

Analyte	NW of MAF Near Air Intake Vent (mg/kg-dry)	SE of MAF Behind Garage (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 10N: Soil Sampling Results Cont.**

<b>Analyte</b>	<b>SW Corner Outside Fenceline (mg/kg-dry)</b>	<b>SE Corner Outside Fenceline (mg/kg-dry)</b>	<b>NE Corner Outside Fenceline (mg/kg-dry)</b>
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 11N: Air Direct Reading Values**

<b>Analyte</b>	<b>Topside Measured Value</b>	<b>LCC Measure Value</b>	<b>Recommended Range</b>
Carbon Dioxide	503 ppm	585 ppm	1000 ppm
Relative Humidity	55.9%	59.9%	30% - 60%
Temperature	72.8°F	73.2°F	72°F - 80°F
Carbon Monoxide	0.7 ppm	0.7 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 12N: Water Direct Reading Values**

<b>Analyte</b>	<b>Topside Measured Value</b>	<b>LCC Measured Value</b>	<b>Recommended Range</b>
pH	>8.5	>8.5	6.5 - 8.5
Free Available Chlorine	1.02	0	> 0 mg/L; < 4 mg/L
Total Available Chlorine	1.3	0.02	> 0 mg/L; < 4 mg/L

## Appendix 15: MAF OSCAR (O-01) Results, Sampled on 23 July 2023

**Table 10: PCB Swipe Sampling**

Location	Analyte	Result ( $\mu\text{g}/100\text{ cm}^2$ )	Standard (40 CFR Part 761) ( $\mu\text{g}/100\text{ cm}^2$ )
Battery Charger Access – Surface (PCB Sticker)	Total PCBs	Not Detected	10
Battery Charger Access – Ground Level (PCB Sticker)	Aroclor 1254	1.94	10
	Total PCBs	1.94	10
Distribution Box Ref 364 - Surface	Total PCBs	Not Detected	10
Distribution Box Ref 364 - Underside	Total PCBs	1.27	10
Digital Data Group (S/N: 0003019) – Surface	Total PCBs	Not Detected	10
Digital Data Group (S/N: 0003019) – Underside	Total PCBs	Not Detected	10
Left Keyboard Above T1/T2/T3 (S/N: C110175)	Aroclor 1254	3.94	10
	Total PCBs	3.94	10
Left Visual Display Screen (S/N: 0608B029)	Total PCBs	Not Detected	10
Right Keyboard Above T1/T2/T3	Aroclor 1254	4.38	10
	Total PCBs	4.38	10
Right Visual Display Screen (S/N: 0608B030)	Total PCBs	Not Detected	10
Motor Generator - Surface	Aroclor 1254	2.88	10
	Total PCBs	2.88	10
Power Supply (S/N: 0000060) – Surface	Total PCBs	Not Detected	10
Power Supply – Underside	Total PCBs	Not Detected	10
Wing 3 LCDS Panel – Surface	Total PCBs	Not Detected	10
Wing 3 LCDS Panel - Underside	Aroclor 1254	2.39	10
	Total PCBs	2.39	10
RFI Filters (EB Room) – Surface (PCB Sticker)	Total PCBs	Not Detected	10
RFI Filters (EB Room) – Ground Level (PCB Sticker)	Total PCBs	Not Detected	10
MPP Access Cover - Surface	Total PCBs	Not Detected	10
Elevator Buttons	Total PCBs	Not Detected	10
Common Area Dining Table	Total PCBs	Not Detected	10



**Table 20: Air Sampling Results – PCBs**

Analyte	LCC Result (mg/m <sup>3</sup> )	Topside Result (mg/m <sup>3</sup> )
Aroclor 1016	<0.0021	<0.0021
Aroclor 1221	<0.0021	<0.0021
Aroclor 1232	<0.0021	<0.0021
Aroclor 1242	<0.0021	<0.0021
Aroclor 1248	<0.0021	<0.0021
Aroclor 1254	<0.0021	<0.0021
Aroclor 1260	<0.0021	<0.0021

**Table 30: Air Sampling Results – Organophosphates**

Analyte	LCC (8hr) Result (mg/m <sup>3</sup> )	Topside (8hr) Result (mg/m <sup>3</sup> )	LCC (2hr) Result (mg/m <sup>3</sup> )	Topside (2hr) Result (mg/m <sup>3</sup> )
Chlorpyrifos (Dursban)	<0.0026	<0.0026	<0.0010	<0.0010
Diazinon	<0.0026	<0.0026	<0.0010	<0.0010
Dicrotophos	<0.0026	<0.0026	<0.0010	<0.0010
Ethoprophos (Mocap)	<0.0026	<0.0026	<0.0010	<0.0010
Malathion	<0.0026	<0.0026	<0.0010	<0.0010
Methamidophos	<0.0026	<0.0026	<0.0010	<0.0010
Methyl Parathion	<0.0026	<0.0026	<0.0010	<0.0010
Parathion (Parathion Ethyl)	<0.0026	<0.0026	<0.0010	<0.0010
Phorate	<0.0026	<0.0026	<0.0010	<0.0010
Terbufos	<0.0026	<0.0026	<0.0010	<0.0010

**Table 40: Air Sampling Results – VOCs**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane	<10	<10
1,1,1-Trichloroethane	<10	<10
1,1,2,2-Tetrachloroethane	<10	<10
1,1,2-Trichloroethane	<10	<10
1,1-Dichloroethane	<10	<10
1,1-Dichloroethylene	<10	<10
1,1-Dichloropropylene	<10	<10
1,2,3-Trichlorobenzene	<10	<10
1,2,3-Trichloropropane	<10	<10
1,2,4-Trichlorobenzene	<10	<10
1,2,4-Trimethylbenzene	<10	<10
1,2-Dibromo-3-chloropropane (DBCP)	<10	<10
Ethylene Dibromide	<10	<10
1,2-Dichlorobenzene	<10	<10
1,2-Dichloroethane	<10	<10
1,2-Dichloropropane	<10	<10
1,3,5-Trimethylbenzene	<10	<10
1,3-Dichlorobenzene	<10	<10
1,3-Dichloropropane	<10	<10
1,4-Dichlorobenzene	<10	<10
2-Chlorotoluene	<10	<10
4-chlorotoluene	<10	<10
Benzene	<10	<10
Bromobenzene	<10	<10
Bromochloromethane	<10	<10
Bromodichloromethane	<10	<10
Bromoform	<10	<10
Carbon Tetrachloride	<10	<10
Chlorobenzene	<10	<10
Chloroform	<10	<10
cis-1,2-Dichloroethylene	<10	<10
cis-1,3-Dichloropropene	<10	<10
Dibromochloromethane	<10	<10
Ethylbenzene	<10	<10
Hexachlorobutadiene	<10	<10

**Table 40: Air Sampling Results – VOCs Cont.**

Analyte	LCC Result ( $\mu\text{g}/\text{m}^3$ )	Topside Result ( $\mu\text{g}/\text{m}^3$ )
Isopropylbenzene	<10	<10
Methylene Chloride(Dichloromethane)	<10	<10
p+m-Xylene	<10	<10
Naphthalene	<10	<10
n-Butylbenzene	<10	<10
n-Propylbenzene	<10	<10
o-Xylene	<10	<10
p-isopropyltoluene	<10	<10
sec-butylbenzene	<10	<10
Styrene	<10	<10
tert-butylbenzene	<10	<10
Tetrachloroethylene	<10	<10
Toluene	<10	<10
trans-1,2-Dichloroethylene	<10	<10
trans-1,3-Dichloropropene	<10	<10
Trichloroethylene	<10	<10

**Table 50: Water Sampling Results – Nitrate/Nitrite**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Nitrate/Nitrite (Total)	0.68	0.70	10

**Table 60: Water Sampling Results – Dioxins**

Analyte	Topside Result (pg/L)	LCC Result (pg/L)	Maximum Containment Level (pg/L)
2-3-7-8-Tetrachlorodibenzo-p-dioxin	<4.0	<4.3	30

**Table 70: Water Sampling Results – Diquat/Paraquat**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Diquat	<0.0004	<0.0004	0.02
Paraquat	<0.0004	<0.0004	N/A

**Table 80: Water Sampling Results – PCBs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
PCB-1016	<0.00008	<0.00008	0.002
PCB-1221	<0.0001	<0.0001	0.002
PCB-1232	<0.0001	<0.0001	0.002
PCB-1242	<0.0001	<0.0001	0.002
PCB-1248	<0.0001	<0.0001	0.002
PCB-1254	<0.0001	<0.0001	0.002
PCB-1260	<0.0001	<0.0001	0.002
Total PCBs	<0.0001	<0.0001	0.002

**Table 90: Water Sampling Results – Pesticides/SVOCs**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
1-Methylnaphthalene	<0.000098	<0.00011	N/A
2-Methylnaphthalene	<0.000098	<0.00011	N/A
4,4'-DDD	<0.000098	<0.00011	N/A
4,4'-DDE	<0.000098	<0.00011	N/A
4,4'-DDT	<0.000098	<0.00011	N/A
Acenaphthene	<0.000098	<0.00011	N/A
Acenaphthylene	<0.000098	<0.00011	N/A
Alachlor	<0.000098	<0.00011	0.002
Aldrin	<0.000098	<0.00011	0.00001
alpha-Chlordane	<0.000098	<0.00011	N/A

**Table 90: Water Sampling Results – Pesticides/SVOCs Cont.**

<b>Analyte</b>	<b>Topside Result (mg/L)</b>	<b>LCC Result (mg/L)</b>	<b>Maximum Containment Level (mg/L)</b>
Anthracene	<0.000098	<0.00011	N/A
Atrazine	<0.000098	<0.00011	0.003
Benzo[a]anthracene	<0.000098	<0.00011	0.0001
Benzo[a]pyrene	<0.000020	<0.000021	0.0002
Benzo[b]fluoranthene	<0.000098	<0.00011	0.0002
Benzo[g,h,i]perylene	<0.000098	<0.00011	N/A
Benzo[k]fluoranthene	<0.000098	<0.00011	0.0002
Bromacil	<0.000098	<0.00011	N/A
Butachlor	<0.000098	<0.00011	N/A
Butylbenzylphthalate	<0.00098	<0.0011	N/A
Chlorothalonil	<0.000098	<0.00011	N/A
Chrysene	<0.000098	<0.00011	0.0002
Cyanazine	<0.000098	<0.00011	N/A
Deisopropylatrazine	<0.00098	<0.0011	N/A
Desethylatrazine	<0.00098	<0.0011	N/A
Di(2-ethylhexyl)phthalate	<0.00059	<0.00064	0.006
Di(2-ethylhexyl)adipate	<0.00059	<0.00064	0.40
Diazinon	<0.000098	<0.00011	N/A
Dibenz[a,h]anthracene	<0.000098	<0.00011	0.0003
Dieldrin	<0.000098	<0.00011	N/A
Diethylphthalate	<0.00098	<0.0011	N/A
Dimethoate	<0.00049	<0.00054	N/A
Dimethylphthalate	<0.00098	<0.0011	N/A
Di-n-butylphthalate	<0.0020	<0.0021	N/A
Di-n-octylphthalate	<0.0020	<0.0021	N/A
Endrin	<0.0000098	<0.000011	0.002
EPTC	<0.000098	<0.00011	N/A
Fluoranthene	<0.000098	<0.00011	N/A
Fluorene	<0.000098	<0.00011	N/A
gamma-BHC (Lindane)	<0.000020	<0.000021	0.0002
gamma-Chlordane	<0.000098	<0.00011	0.100
Heptachlor	<0.0000098	<0.000011	0.0004
Heptachlor Epoxide	<0.0000098	<0.000011	0.0002
Hexachlorobenzene	<0.000098	<0.00011	0.001
Hexachlorocyclopentadiene	<0.000098	<0.00011	0.05
Indeno[1,2,3-cd]pyrene	<0.000098	<0.00011	0.0004
Malathion	<0.000098	<0.00011	N/A

**Table 90: Water Sampling Results – Pesticides/SVOCs Cont.**

Analyte	Topside Result (mg/L)	LCC Result (mg/L)	Maximum Containment Level (mg/L)
Methoxychlor	<0.000098	<0.00011	0.04
Metolachlor	<0.000098	<0.00011	N/A
Metribuzin	<0.000098	<0.00011	N/A
Molinate	<0.000098	<0.00011	N/A
Naphthalene	<0.000098	<0.00011	N/A
Parathion	<0.00049	<0.00054	N/A
Phenanthrene	<0.000098	<0.00011	N/A
Prometryn	<0.000098	<0.00011	N/A
Propachlor	<0.000098	<0.00011	N/A
Pyrene	<0.000098	<0.00011	0.0002
Simazine	<0.000069	<0.000075	0.004
Terbacil	<0.000098	<0.00011	N/A
Thiobencarb	<0.000098	<0.00011	N/A
trans-Nonachlor	<0.000098	<0.00011	0.002
Trifluralin	<0.000098	<0.00011	N/A

**Table 100: Soil Sampling Results**

Analyte	W of MAF Behind Garage (mg/kg-dry)	E of MAF Near Air Intake Vent (mg/kg-dry)	SE Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 100: Soil Sampling Results Cont.**

Analyte	NE Corner Outside Fenceline (mg/kg-dry)	NW Corner Outside Fenceline (mg/kg-dry)	SW Corner Outside Fenceline (mg/kg-dry)
Methyl Parathion	Not Detected	Not Detected	Not Detected
Phorate	Not Detected	Not Detected	Not Detected
Parathion	Not Detected	Not Detected	Not Detected
Methamidophos	Not Detected	Not Detected	Not Detected
Malathion	Not Detected	Not Detected	Not Detected
Ethoprop	Not Detected	Not Detected	Not Detected
Dicrotophos	Not Detected	Not Detected	Not Detected
Diazinon	Not Detected	Not Detected	Not Detected
Chlorpyrifos	Not Detected	Not Detected	Not Detected
Terbufos	Not Detected	Not Detected	Not Detected

**Table 110: Air Direct Reading Values**

Analyte	Topside Measured Value	LCC Measure Value	Recommended Range
Carbon Dioxide	612 ppm	830 ppm	1000 ppm
Relative Humidity	54.7%	31.7%	30% - 60%
Temperature	71.8°F	70.6°F	72°F - 80°F
Carbon Monoxide	0.7 ppm	3.6 ppm	25 ppm (8-hr TWA)
Ozone	0 ppm	0 ppm	0.1 ppm (8-hr TWA)

**Table 120: Water Direct Reading Values**

Analyte	Topside Measured Value	LCC Measured Value	Recommended Range
pH	8.4	>8.5	6.5 - 8.5
Free Available Chlorine	>2	0.91	> 0 mg/L; < 4 mg/L
Total Available Chlorine	>2	0.84	> 0 mg/L; < 4 mg/L