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LOCKHEED MARTIN

DATE: July 7, 2015

TO: Raj Singhvi, U.S. EPA/ERT Work Assignment Manager

THROUGH: Kevin Taylor, SERAS Program Manager

FROM: Amy DuBois, SERAS Task Leader

SUBJECT: METHYL BROMIDE RESPONSE, ST. JOHN, VIRGIN ISLANDS
WORK ASSIGNMENT #SER00270 - TRIP REPORT

## BACKGROUND

On March 20, 2015, the Environmental Protection Agency (EPA) was notified of a potential chemical substance exposure that occurred in St. John, United States Virgin Islands (USVI). A family of four began vacationing during the week of March 16, 2015 at a relatively new condominium complex within the Sirenusa Condominium Resort overlooking Cruz Bay, St. John (Site). All four family members slowly started showing neurological symptoms of acute chemical exposure. The suspected chemical is methyl bromide, a highly toxic and banned pesticide. On March 20, 2015, their symptoms worsened to the point that they required medical care, and they were transported to the St. Thomas hospital. All four patients have since been transferred to stateside hospitals. The paramedic who transported the victims later noted that she had also exhibited neurological symptoms following the transport, but her symptoms were resolved by the following day with over-the-counter medications and rest. EPA Region II requested Environmental Response Team (ERT) technical support. The ERT requested air sampling and analytical support from the Scientific, Engineering, Response and Analytical Services (SERAS) Contract under the Emergency Response (ER) work assignment (WA) #0-001.

At the request of ERT, SERAS contract personnel mobilized equipment and personnel to St. John to perform air sampling and wipe sampling as part of the methyl bromide investigation. Two SERAS personnel mobilized to site March 23, 2015. As the investigation developed, it was determined air sampling would be conducted for volatile organic compounds (VOCs), methyl bromide, and pesticides; wipe sampling would be conducted for bromide by ion chromatography (IC) and for pesticides; and water samples would be collected and analyzed for VOCs and for bromide.

## OBSERVATIONS AND ACTIVITIES

During the initial response, SERAS personnel mobilized to site and participated in several air monitoring, air sampling, water sampling and wipe sampling events designed to confirm the presence of methyl bromide and rule out the use of any additional pesticides or other potential chemicals of concern. These sampling events were conducted from March 23, 2015 through March 30, 2015. Upon completion of the initial investigation, several activities designed to remove the methyl bromide from the building and confirm methyl bromide levels decreased below the site action level were conducted. These ventilation and clearance events were conducted from April 1, 2015 through June 11, 2015.

### Air Monitoring Methodology

Air monitoring was conducted using a RAE Systems multiRAE Pro, fitted with a 10.6 electron volt (eV) lamp photo ionization detector (PID) configured to detect parts per billion (ppb) levels of volatile organic compounds (VOCs) to screen the area for possible contamination and determine if any areas of the building had isolated higher concentrations of VOCs present.

**Air Sampling Methodology**

Air sampling for VOCs was conducted following ERT/SERAS standard operating procedure (SOP) #1704, *SUMMA® Canister Sampling*. During the initial investigative phase of the response, instantaneous "grab" samples were collected using pre-cleaned, individually-certified 6-liter (L) SUMMA® canisters. Samples were shipped to the ERT/SERAS Laboratory in Edison, New Jersey (NJ) for analysis of VOCs and tentatively identified compounds (TICs) following SERAS SOP #1814, *Analysis of Volatile Organic Compounds (VOCs) in SUMMA® Canister Air Samples by Gas Chromatography/Mass Spectrometry (GC/MS)* for expedited twenty-four hour sample analysis. This method is based on EPA Toxic Organic Compendium Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed By Gas Chromatography/ Mass Spectrometry (GC/MS)*, (TO-15). During the ventilation and clearance sampling events, grab samples were collected to provide information on how the ventilation was progressing, and 24-hour time-weighted average (TWA) samples were collected at the end of each ventilation event to determine whether the unit had met the clearance objectives. Over the course of the ventilation and clearance events, the target compound list was reduced to just methyl bromide (bromomethane).

Air sampling and analysis for methyl bromide was conducted following Occupational Safety and Health Administration (OSHA) Method PV2040, *Methyl Bromide*. The sampling train consisted of a 600-milligram (mg) Anasorb 747 sorbent tube (SKC #226-83) comprised of a 400-mg front section and a 200-mg back section attached to a personal sampling pump (SKC Universal XR Sampling Pump Model PCXR8). Due to the potential for high relative humidity levels, all sorbent tubes were connected in series after a sorbent drying tube (SKC #226-44-02). Samples were shipped to SGS/Galson Laboratory for methyl bromide analysis.

Sampling and analysis for pesticides in air was conducted following EPA Toxic Organic Compendium Method TO-10A, *Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using Low Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)*. The sampling train consisted of a PUF/Tenax/PUF foam plug (SKC #226-124) attached to a personal sampling pump (SKC Universal XR Sampling Pump Model PCXR8). The samples were collected at 1 Liter per minute (L/min) for 12 hours. Samples were shipped to ALS, USA Laboratory in Simi Valley, California (CA) for analysis.

**Water Sampling Methodology**

Analysis for VOCs in water was conducted following SERAS SOP #1806, *Volatile Organic Analysis in Water by GC/MS*; samples were shipped to the ERT/SERAS Laboratory for analysis.

Analysis for bromide in water was conducted following EPA SW846 Method 9056A, *Determination of Inorganic Anions by Ion Chromatography*; samples were shipped to Katahdin Analytical Services laboratory for analysis.

**Wipe Sampling Methodology**

Wipe sampling was conducted following ERT/SERAS SOP #2011, *Chip, Wipe, and Sweep Sampling*. Wipe samples for bromide were shipped to SGS/Galson Laboratories in East Syracuse, New York (NY) for analysis for bromide by IC following modified National Institute for Occupational Safety and Health (NIOSH) Method #7903, *Acids, Inorganic*. Wipes for bromide were collected dry using Teflon wipes (37 millimeter [mm] PTFE filters) and 10 centimeter (cm) x 10 cm templates supplied by the laboratory.

Wipe samples for pesticides were collected using gauze wipes wetted with hexane, using a separate 10 cm x 10 cm template. Wipe samples for pesticides were collected from locations adjacent to the bromide wipes. Pesticide wipe samples were shipped to Katahdin Analytical Services in Scarborough, Maine (ME) for analysis following EPA SW-846 Method 8081B, *Organochlorine Pesticides by Gas Chromatography*.

**Site Activities, Initial Response – March 23, 2015 to March 28, 2015**

SERAS personnel mobilized equipment to the Site March 23, 2015.

**March 24, 2015** - EPA, SERAS, and Region II Removal Support Team (RST) Contract personnel conducted an entry,

utilizing "Level B" personal protective equipment (PPE) consisting of full-face self-contained breathing apparatus (SCBA) air packs and coated, non-permeable, protective suits (SARAN), to begin investigating the impacted condominium unit, J Upper. Air monitoring was conducted using a multiRAE Pro PID to screen the area for possible contamination and determine if any areas of the building had isolated higher concentrations of VOCs present.

Air sampling for VOCs was conducted using SUMMA® canisters. Grab samples were collected from three indoor air locations, Kitchen, Master Bedroom, and Bedroom 2, and an ambient air sample was collected outside near the air conditioning (A/C) units. The four samples and a Trip Blank were shipped to the ERT/SERAS Laboratory for analysis of VOCs and TICs following SERAS SOP #1814.

**March 26, 2015** - SERAS and RST personnel conducted two entries into J Upper. During the first entry, wipe samples were collected for bromide and for pesticides. Samples were collected from eight locations throughout the unit. Wipe samples for bromide were shipped to SGS/Galson Laboratories. Pesticide wipe samples were shipped to Katahdin Analytical Services.

During the second entry, SERAS personnel deployed sampling pumps and media to collect air samples for methyl bromide and for pesticides. Methyl bromide samples were collected at three indoor air locations and an ambient location. One set of samples was collected at all locations at 1 liter per minute (L/min) over a 12-hour sampling period. A second set of samples was collected at the three indoor air locations at a flow rate of 0.5 L/min. These samples were set for a 2-hour delayed start and then collected for a 4-hour sampling period. The pesticides air samples were collected at 1 L/min for 12 hours from the three indoor air and the ambient location. The methyl bromide and pesticides samples were retrieved from the unit March 27, 2015 and shipped to the SGS/Galson and ALS laboratories for analysis.

**March 27, 2015** - SERAS and RST personnel entered unit J Upper to retrieve the air samples and collect water samples. Water samples were collected for VOC analysis and for bromide analysis. Water samples for VOCs were collected from the sinks (faucets) in the Kitchen and in the bathroom off Bedroom 2. One water sample for bromide was collected from the Kitchen sink. Water samples were shipped to the ERT/SERAS Laboratory for VOCs analysis and to the Katahdin Analytical Services laboratory for bromide analysis.

SERAS and RST personnel conducted the first entry into J Lower on March 27, 2015. Air monitoring was conducted to screen the unit for VOCs using the multiRAE Pro PID. Grab samples were collected for VOCs using 6-L SUMMA® canisters at two indoor air locations, Kitchen and Utility Room, and from the ambient air. Sampling pumps and media were deployed to collect air samples for pesticides and methyl bromide from the same two indoor air locations. Pesticide samples were collected at 1 L/min for 12 hours. Methyl bromide samples were collected at 1 L/min for 12 hours with a collocated sample in the kitchen collected at 0.1 L/min for 4 hours after a 2-hour delayed start. A methyl bromide sample was also collected at the ambient location at 1 L/min for 12 hours. During this entry, wipe samples were collected for pesticides and methyl bromide from five locations.

**March 28, 2015** - SERAS and RST personnel entered unit J Lower to retrieve the air samples and collect water samples. Water samples for VOCs and bromide were collected from one location, the Kitchen sink. All entries into J Upper and J Lower were conducted in Level B PPE.

Upon completing the initial investigation of J Upper and J Lower, air samples and wipe samples were collected from a background location, unit A Lower, which has no record of being exposed to methyl bromide. Air samples were also collected from the upper and lower levels of a unit fumigated October 18, 2014, Unit I. Grab air samples were collected using 6-L SUMMA® canisters from the Kitchen/Dining (Common) Areas of A Lower, I Lower and I Upper. Wipe samples for bromide and pesticides were collected from the top of the refrigerator in A Lower.

**Site Activities, Ventilation and Clearance Sampling**

**March 31, 2015 to April 5, 2015 –** RST and EPA Region II personnel ventilated J Lower with fans. On April 5, 2015, grab SUMMA® samples were collected by RST personnel for analysis for VOCs and TICs from the J Upper and J Lower units.

**April 13, 2015 to April 19, 2015** - EPA and SERAS personnel re-mobilized to the Site to begin conducting clearance sampling after completion of the initial investigation at Sirenusa Condominium Resort to verify whether both units, J Upper and J Lower, were cleared to be re-occupied.

On April 14, 2015, EPA and SERAS personnel conducted the first clearance sampling entries, the first into J Upper and the second into J Lower. Air monitoring was conducted outside near the doorway of each unit prior to entry and also within each unit using a multiRAE Pro PID to screen the area for possible contamination. Locations for the 24-hour SUMMA® sampling event were established during this entry, and both units were set up for ventilation to promote evacuation of remaining methyl bromide vapors. Four high velocity fans were set up (two in each unit) the air conditioning was turned on, windows were opened, and all other vents inside each unit were also turned on or opened. All drawers, doors, and cabinets were opened in both units to eliminate pockets of potential stagnation. A high velocity fan was placed in the Master and front bedrooms in both units, set to cross-ventilate air through the unit. One additional low-velocity fan was placed in J Lower to draw air out. Grab air samples were collected from the Kitchen of each unit to document concentrations of methyl bromide prior to initiating the 24-hour clearance sampling event. All household chemicals were removed from the units prior to sample collection to reduce the potential for VOC interference. The two grab samples were shipped to the ERT/SERAS Laboratory for TO-15 (SERAS SOP #1814) analysis. MultiRAE Pro PID readings remained between 0-20 ppb throughout this entry period.

On April 15, 2015, EPA and SERAS personnel returned to the Site and added a dehumidifier to each unit to aid in ventilation. The dehumidifiers were operated at the lowest setting. Wipe samples were collected for bromide analysis from J Upper and J Lower units. A wipe sample was collected from both the wall and floor of the Kitchen, Master bedroom, and front Bedroom in each unit. MultiRAE Pro PID readings remained between 0-30 ppb throughout this entry period.

On April 16, 2015, some soft material items (clothing, towels, etc.) were bagged to decrease the possibility of off-gassing any absorbed methyl bromide. The bag was removed to the patio area.

On April 17, 2015, grab air samples were collected for VOC analysis at two indoor locations, J Upper Kitchen and J Lower Kitchen, and a third sample was collected from the headspace of the bagged materials. After sampling, EPA and SERAS personnel closed the windows and turned off all fans, dehumidifiers, and air conditioning in preparation for 24-hour SUMMA® sampling. MultiRAE Pro PID readings remained between 0-40 ppb throughout this entry period.

On April 18, 2015, EPA and SERAS personnel initiated 24-hour SUMMA® canister sampling for clearance purposes. A total of eight 24-hour 6-L SUMMA® samples were collected for VOC analysis, four in J Upper, three in J Lower, plus one ambient air sample on the patio of J Lower. The samples in J Upper were taken in Kitchen, Master Bedroom, Bedroom 1, and Bedroom 2. In J Lower samples were collected in the Kitchen, Master Bedroom, and Bedroom 1. MultiRAE Pro PID readings remained between 0-40 ppb throughout this entry period. One background grab sample was also collected on St. Thomas, on the north side of the island.

On April 19, 2015, EPA and SERAS personnel retrieved the 24-hour samples and collected four grab samples in ambient locations as requested by the WAM. A total of four ambient air grab samples were collected, one outside of the Resort Club house, one on the Patio of J Lower, one from the deck of the Ferry on St John, and one on Route 315 on the island of St Thomas. SERAS and ERT personnel demobilized from site on April 20, 2015.

**April 27, 2015 to May 3, 2015, J Lower -** Due to analytical results that indicated levels of methyl bromide above the screening level of 1.34 ppbv within condo J Lower, EPA, RST, and SERAS personnel mobilized back to St. John, USVI on April 27, 2015 to reevaluate and continue building ventilation. Ventilation and sampling was discontinued in J Upper at the request of the owner, who was residing at the location. Methyl bromide levels in J Upper were below the 1.34 ppbv screening level. From this point forward, it was decided SUMMA® samples would be analyzed for methyl bromide (bromomethane) only, reduced from the full TO-15 compound list.

April 27, 2015, two additional high power blowers were brought to the Site to help create a more effective ventilation cycle within J Lower. Both high volume blowers were placed near the windows of Bedroom 1 and oriented outward, allowing inside air to blow outside. During this ventilation event, fans, air conditioning, and other vents remained on or open throughout the process. Additionally, a carbon air purification unit was placed in the kitchen to remove VOCs from

air. Two grab SUMMA® samples were collected for VOCs using 6-L SUMMA® canisters, one each collected at the air purifier inlet and outlet. Samples were shipped to ERT/SERAS Laboratory for methyl bromide analysis. Preliminary results were provided directly to the WAM and are not included in the final Analytical Report. MultiRAE Pro PID readings were not detected throughout the entry period.

On April 28, 2015, EPA, RST, and SERAS personnel re-entered condo unit J Lower to move one of the high volume blowers into the Master bedroom from Bedroom 1. All fans, air conditioning, and windows remained opened and running during this ventilation cycle. The other high volume blower remained in Bedroom 1. Each blowers was placed near the windows inside each room. Six grab samples were collected to evaluate methyl bromide levels in J Lower prior to initiating 24-hour clearance sampling. Samples were collected from the J Lower Kitchen, Master bedroom, Sofa (in bag), pillows (in bag), and Ambient (Patio); one Ambient grab sample was taken at St. John Marketplace. All six samples were shipped to the ERT/SERAS Laboratory for methyl bromide analysis. Preliminary results were provided directly to the WAM and are not included in the final Analytical Report. MultiRAE Pro PID readings were not detected throughout entry period.

On April 29, 2015, EPA, RST and SERAS personnel moved the high volume blower from the Master bedroom into Living room of unit J Lower to vent through the Living room doors. All fans, air conditioners and windows remained open during this ventilation period. During this event, four grab samples were collected from the Kitchen, Living room, Laundry room, and one ambient sample from the south side of St John. All four samples were shipped to ERT/SERAS Laboratory for methyl bromide analysis. Preliminary results were provided directly to the WAM and are not included in the final Analytical Report.

On May 1, 2015 EPA, RST and SERAS personnel re-entered unit J Lower; high volume blowers remained in their current locations at this time. During this entry, two grab samples were collected for analysis for methyl bromide, one in the Kitchen, the other inside the wall cavity of the unit. Both samples were hand-carried by RST personnel to Newark, NJ and transferred to SERAS personnel for analysis. Preliminary results were provided directly to the WAM and are not included in the final Analytical Report. After collection of the grab samples, all ventilation activity ceased, windows were all closed, and air conditioning was turned off. A total of four 24-hour 6-L SUMMA® canisters were deployed in J Lower. On May 2, 2015, the 24-hour SUMMA® canister samples were retrieved from the Kitchen/Living room, Master Bedroom, Bedroom 1, and the Ambient (Patio) locations. All four samples and one Trip Blank were carried to the ERT/SERAS Laboratory for analysis of methyl bromide. Demobilization occurred on May 3, 2015.

**May 12, 2015 to May 18, 2015, J Lower -** On May 12, 2015 EPA and SERAS personnel returned to St John to conduct additional clearance sampling. Samples analyzed from the 24-hour sampling event ending May 2, 2015 indicated methyl bromide levels above 1.34 ppbv within the J Lower unit. An additional high volume blower was brought to the Site and placed in the living room of J Lower. Two smaller high volume blowers remained running inside the unit, one in Master bedroom and the other in Bedroom 1. Two carbon air purification units were deployed as well. Windows and doors were opened during this ventilation cycle, and the air conditioning and fans were kept running. Sampling during this event was designed both to track the progress of the ventilation and to try to identify any areas or materials in the unit that may be off-gasing methyl bromide and causing concentrations to remain above the 1.34 ppbv action level.

On May 12, 2015, a small section of drywall was removed and placed in a vacuum jar for headspace analysis for methyl bromide. A grab SUMMA® sample was collected from within the ceiling. A chamber was attached to the kitchen wall and evacuated, the effect of which was meant to capture methyl bromide emitted from the drywall. A 24-hour SUMMA® sample was collected from the chamber.

On May 13, 2015, EPA and SERAS ceased all ventilation and air purification activities in J Lower. One grab SUMMA® sample was taken in the Living room, in an isolated environment without air flow through the unit J Lower. After the sample was collected, all ventilation, air conditioning, and fans were turned back on. On May 14, 2015, an additional grab sample was taken with air ventilating throughout unit J Lower. During this event the grab sample was placed at the same location to compare isolated and non-isolated methyl bromide results. Both grab samples were shipped to the ERT/SERAS Laboratory.

On May 15, 2015, EPA and SERAS personnel collected a grab sample inside a kitchen cabinet and one from the Ambient (Patio) location. Both samples were shipped to ERT/SERAS Laboratory.

On May 16, 2015, EPA and SERAS personnel prepared J Lower for a 24-hour SUMMA® canister sampling event. All ventilation activity was stopped, windows were closed, and air conditioning was turned off. Twenty-four hour sampling was initiated at three locations, Kitchen/Living room (with duplicate), Master Bedroom, Bedroom 1, plus the ambient (Patio) location. Samples were retrieved May 17, 2015 and shipped to the ERT/SERAS laboratory for expedited twenty-four hour sample analysis. Demobilization occurred on May 18, 2015.

**June 1, 2015 to June 8, 2015, J Lower –** Although methyl bromide levels had decreased, the analytical results of the 24-hour clearance samples were still above the screening level of 1.34 ppbv. Adding energy to an environment generally causes VOCs to volatize more quickly; as such, it was decided that propane heaters would be used to elevate the condominium temperature to drive any remaining methyl bromide from the porous surfaces in the J Lower unit. In addition, ultraviolet (UV) lighting directed at the wooden cabinets was used to try and reduce the amount of methyl bromide absorbed within the wood.

On June 2, 2015, EPA and SERAS personnel implemented the UV lights and propane heating system. A grab SUMMA® sample was collected from the Kitchen/Living room prior to heating the unit. The heaters were used to raise the temperature from 85 degrees Fahrenheit (˚F) to 107˚F. After heating the unit throughout the day, the heaters were turned off and a second grab sample was collected. On June 3, 2015, EPA and SERAS returned to the Site for a second day of heating the unit. At the end of the day, the heating system was turned off and a grab SUMMA® sample was collected. On June 4, 2015, the unit was heated for a third day. After turning the heating system off, a grab SUMMA® sample was collected from inside a kitchen cabinet.

On June 5, 2015, EPA and SERAS personnel re-entered unit J Lower. Ventilation was initiated again after the prior three days of heating. Two high volume blowers were placed near windows venting air outside, and one was placed in the Living room blowing out the side door; fans, air conditioning, and other vents remained on or opened during the ventilation period. Three grab SUMMA® samples were collected from the J Lower Kitchen, Kitchen cabinet, and Kitchen/Living room.

On June 6, 2015, EPA and SERAS personnel prepared J Lower for a 24-hour SUMMA® canister clearance sampling event. All ventilation activity ceased, windows were closed, and air conditioning was turned off. Twenty-four hour sampling was initiated at three locations within the unit, Kitchen/Living room, Master Bedroom, Bedroom 1, plus the Ambient (Patio) location. All four samples and one Trip Blank were shipped to the ERT/SERAS Laboratory for expedited twenty-four hour sample analysis. Demobilization for SERAS personnel occurred on June 8, 2015.

**RESULTS**

Analytical results for all sampling activities can be found in the two Analytical Reports, Appendix A. Figures depicting the SUMMA® results for the on-site sampling events are included in Appendix B. Sampling work sheets are included in Appendix C.

A summary of the methyl bromide (bromomethane) results in air from the SUMMA® samples, analyzed following ERT/SERAS SOP #1814, for the initial response for J Upper, J Lower, and the ancillary locations are included in Tables 1, 2 and 3, respectively.

For the ventilation and clearance phase, a summary of methyl bromide (bromomethane) in air results is included in Table 4 for J Upper, Table 5 for J Lower, and Table 6 for specialty samples that were collected to help develop the ventilation process and provide additional information on areas or materials potentially containing methyl bromide.

Methyl bromide results for ambient air SUMMA® samples is provided in Table 7.

A summary of the methyl bromide results in air from the sorbent tube samples, analyzed following OSHA Method PV2040 is included in Table 8. Breakthrough occurred between the front and back section of the sorbent tubes; results qualified with "J-" are estimated low.

Pesticides (Air) – Pesticides in air were analyzed following EPA TO-10A, no pesticides were detected above their RLs

(0.069-0.073 µg/m$^3$, compound specific).

Water Samples - methyl bromide (bromomethane) was not detected above the RL of 5 µg/L in any of the water samples analyzed for VOCs by ERT/SERAS SOP #1806. Bromide was not detected above the RL of 0.5 mg/L in the water samples analyzed by EPA SW846/9056A.

Wipe Samples - Wipe samples for bromide were analyzed following modified NIOSH 7903; no bromide was detected above the RL of 0.1 micrograms per square centimeter (µg/cm$^2$). Wipe samples for pesticides were analyzed following EPA SW846/8081B, no pesticides were detected above the RLs (0.0012-0.025 µg/cm$^2$, compound specific).

**FUTURE ACTIVITIES**

No further activities are anticipated at this time.

cc: Central File WA SER00270 (w/attachments)
Electronic File: I:\Archive\SERAS\270\D\TR\070715
Kevin Taylor, SERAS Program Manager (cover page only)

TABLES
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

TABLE 1
J Upper Methyl Bromide (Bromomethane) Results – Initial Response
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

| Sample Number | 55000 | 55002 | 55004 | 55001 | 55003 |
|---|---|---|---|---|---|
| Location | J Upper | J Upper | J Upper | J Upper | Trip Blank |
| Sub-Location | Kitchen | Master Bedroom | Bedroom 2 | Ambient (near A/C units) | |
| Sample Date | 3/24/2015 | 3/24/2015 | 3/24/2015 | 3/24/2015 | 3/24/2015 |
| Analysis | VOC (SUMMA®) | VOC (SUMMA®) | VOC (SUMMA®) | VOC (SUMMA®) | VOC (SUMMA®) |
| Collection | Grab | Grab | Grab | Grab | Grab |
| Units | ppbv | ppbv | ppbv | ppbv | ppbv |
| Bromomethane | 748 | 1010 | 1120 | 1.04 | 0.0200 U |

VOC - volatile organic compounds
ppbv - parts per billion by volume
U - not detected above reporting level
A/C - air conditioning

TABLE 2
J Lower Methyl Bromide (Bromomethane) Results – Initial Response
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

| Sample Number | 55113 | 55114 | 55112 | 55115 |
|---|---|---|---|---|
| Location | Lower | Lower | Lower | Trip Blank |
| Sub-Location | Kitchen | Utility Room | Ambient (Patio) | |
| Sample Date | 3/27/2015 | 3/27/2015 | 3/27/2015 | 3/27/2015 |
| Analysis | VOC (SUMMA®) | VOC (SUMMA®) | VOC (SUMMA®) | VOC (SUMMA®) |
| Collection | Grab | Grab | Grab | Grab |
| Units | ppbv | ppbv | ppbv | ppbv |
| Bromomethane | 572 | 590 | 0.510 | 0.0200 U |

VOC - volatile organic compounds
ppbv - parts per billion by volume
U - not detected above reporting level

TABLE 3
Additional Condominium Units Methyl Bromide (Bromomethane) Results – Initial Response
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

| Sample Number | 55116 | 55117 | 55118 |
|---|---|---|---|
| Location | A Lower (Background) | I Lower | I Upper |
| Sub-Location | Kitchen/Dining Room (Common Area) | Kitchen/Dining Room (Common Area) | Kitchen/Dining Room (Common Area) |
| Sample Date | 3/28/2015 | 3/28/2015 | 3/28/2015 |
| Analysis | VOC (SUMMA®) | VOC (SUMMA®) | VOC (SUMMA®) |
| Collection | Grab | Grab | Grab |
| Units | ppbv | ppbv | ppbv |
| Bromomethane | 0.172 | 0.100 U | 0.100 U |

VOC - volatile organic compounds
ppbv - parts per billion by volume
U - not detected above reporting level

TABLE 4
J Upper Methyl Bromide (Bromomethane) Results – Ventilation and Clearance Sampling
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

| **Date** | **Location** | **J Upper** | **J Upper** | **J Upper** | **J Upper** | **J Upper** |
|---|---|---|---|---|---|---|
| **Sample Type** | **Sub-Location** | **Kitchen** | **Master Bedroom** | **Bedroom 2** | **Bedroom 1** | **Ambient (near A/C units)** |
| 4/5/2015 | Sample # | P001-IA-U-140405-08 | P001-IA-U-140405-07 | P001-IA-U-140405-06 | P001-IA-U-140405-05 | P001-AA-U-150405-09 |
| Grab | Bromomethane | 21.8 | 22.6 | 22.5 | 23.5 | 0.0200 U |
| 4/14/2015 | Sample # | 9821 | | | | |
| Grab | Bromomethane | 0.237 | | | | |
| 4/17/2015 | Sample # | 9837 | | | | |
| Grab | Bromomethane | 0.318 | | | | |
| 4/19/2015 | Sample # | 9907 | 9902 | 9903 | 9910 | |
| **24-hour** | **Bromomethane** | **1.04** | **1.10** | **0.824** | **0.757** | |

All results are in parts per billion by volume (ppbv)

U - not detected above reporting level

A/C - air conditioning

TABLE 5
J Lower Methyl Bromide (Bromomethane) Results – Ventilation and Clearance Sampling
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

| **Date** | **Location** | **J Lower** | **J Lower** | **J Lower** | **J Lower** | **J Lower** | **J Lower** |
|---|---|---|---|---|---|---|---|
| **Sample Type** | **Sub-Location** | **Kitchen** | **Living Room** | **Master Bedroom** | **Bedroom 1** | **Laundry Room** | **Ambient (Patio)** |
| 4/5/2015 | Sample # | P001-IA-L-140405-03 | P001-IA-L-140405-04 | P001-IA-L-140405-01 | P001-IA-L-140405-02 | | |
| Grab | Bromomethane | 88.0 | 104 | 85.1 | 81.9 | | |
| 4/14/2015 | Sample # | 9822 | | | | | |
| Grab | Bromomethane | 0.457 | | | | | |
| 4/17/2015 | Sample # | 9838 | | | | | |
| Grab | Bromomethane | 3.23 | | | | | |
| 4/19/2015 | Sample # | 9904 | | 9905 | 9906 | | 9908 |
| **24-hour** | **Bromomethane** | **10.6** | | **9.67** | **10.3** | | **0.100 U** |
| 4/28/2015 | Sample # | 9923 | | | | | |
| Grab | Bromomethane | 3.18 | | | | | |
| 4/29/2015 | Sample # | 9929 | 9930 | 9924 | | 9871 | |
| Grab (prelim only) | Bromomethane | 2.73 | 2.64 | 2.91 | | 2.10 | |
| 5/1/2015 | Sample # | | 9873 | 9874 | 9875 | | 9876 |
| **24-hour** | **Bromomethane** | | **4.16** | **1.97** | **2.33** | | **0.0200 U** |
| 5/13/2015 | Sample # | | 9931 | | | | |
| Grab (isolated) | Bromomethane | | 0.716 | | | | |
| 5/14/2015 | Sample # | | 9932 | | | | |
| Grab (non-isolated) | Bromomethane | | 0.074 | | | | |
| 5/16/2015 | Sample # | | 9937 / 9941 (CO) | 9938 | 9939 | | 9940 |
| **24-hour** | **Bromomethane** | | **1.49 / 1.42** | **1.23** | **1.50** | | **0.0200 U** |
| 6/2/2015 | Sample # | 9951 | | | | | |
| Grab (before heating) | Bromomethane | 0.0610 | | | | | |
| 6/2/2015 | Sample # | 9952 | | | | | |
| Grab (heating day 1) | Bromomethane | 0.100 | | | | | |
| 6/3/2015 | Sample # | 9953 | | | | | |
| Grab (heating day 2) | Bromomethane | 0.270 | | | | | |
| 6/5/2015 | Sample # | 9955 | 9957 | | | | |
| Grab | Bromomethane | 0.100 U | 0.414 | | | | |
| 6/7/2015 | Sample # | | 9881 | 9883 | 9884 | | 9882 |
| **24-hour** | **Bromomethane** | | **0.531** | **0.541** | **0.370** | | **0.0200 U** |

All results are in parts per billion by volume (ppbv)
U - Not detected above reporting level
CO - Collocated

TABLE 6
J Lower Methyl Bromide (Bromomethane) Results – Specialty Samples
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

| Sample # | Sample Date | Location | Sub-location | Collection | Bromomethane (ppbv) | Comment |
|---|---|---|---|---|---|---|
| 9839 | 4/17/2015 | J Lower | clothing bag head space | Grab | 3.37 | |
| 9921 | 4/27/2015 | J Lower | IAQ Lower Outlet | Grab | 0.627 | prelim only |
| 9922 | 4/27/2015 | J Lower | IAQ Lower Inlet | Grab | 1.60 | prelim only |
| 9925 | 4/28/2015 | J Lower | Sofa (bagged) | Grab | 12.0 | prelim only |
| 9926 | 4/28/2015 | J Lower | Pillows (bagged) | Grab | 14.1 | prelim only |
| 9878 | 5/1/2015 | J Lower | Mattress | Grab | 0.120 | prelim only |
| 9879 | 5/1/2015 | J Lower | Kitchen Wall Cavity | Grab | 0.116 | prelim only |
| 9891 | 5/12/2015 | J Lower | Kitchen Wall (test chamber) | 24-hour | 0.0489 | |
| 9892 | 5/12/2015 | J Lower | Kitchen ceiling | Grab | 0.0878 | |
| 9893 | 5/12/2015 | J Lower | Drywall in vacuum jar (headspace) | Grab | 1.26 | |
| 9935 | 5/15/2015 | J Lower | Kitchen Cabinet | Grab | 9.66 | |
| 9954 | 6/4/2015 | J Lower | Kitchen Cabinet | Grab | 0.271 | after heating day 3 |
| 9956 | 6/5/2015 | J Lower | Kitchen Cabinet | Grab | 0.647 | |

ppbv - parts per billion by volume
IAQ - air purifier unit

TABLE 7
Methyl Bromide (Bromomethane) Results – Ambient Air Samples
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

| Sample # | Sample Date | Location | Sub-location | Collection | Bromomethane (ppbv) | Comment |
|---|---|---|---|---|---|---|
| P001-AA-U-150405-09 | 4/5/2015 | J Upper | Ambient | Grab | 0.0200 U | |
| 9909 | 4/18/2015 | Ambient | North St. Thomas | Grab | 0.100 U | |
| 9908 | 4/19/2015 | J Lower | Ambient (Patio) | Grab | 0.100 U | |
| 9913 | 4/19/2015 | Ambient | Club House | Grab | 0.100 U | |
| 9914 | 4/19/2015 | J Lower | Ambient (Patio) | Grab | 0.100 U | |
| 9915 | 4/19/2015 | Ambient | Ferry | Grab | 0.100 U | |
| 9916 | 4/19/2015 | Ambient | Route 315 | Grab | 0.100 U | |
| 9927 | 4/28/2015 | J Lower | Ambient (Patio) | Grab | 0.100 U | prelim only |
| 9928 | 4/28/2015 | Ambient | Marketplace | Grab | 0.0200 U | prelim only |
| 9872 | 4/29/2015 | Ambient | South Side AA | Grab | 0.0200 U | prelim only |
| 9876 | 5/1/2015 | J Lower | Ambient (Patio) | 24-hour | 0.0200 U | |
| 9936 | 5/15/2015 | J Lower | Ambient (Patio) | Grab | 0.0200 U | |
| 9940 | 5/16/2015 | J Lower | Ambient (Patio) | 24-hour | 0.0200 U | |
| 9882 | 6/6/2015 | J Lower | Ambient (Patio) | 24-hour | 0.0200 U | |

ppbv - parts per billion by volume
U - Not detected above reporting level

TABLE 8
Methyl Bromide Sorbent Tube Sample Results by OSHA PV2040
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

| Sample # | Sample Date | Location | Sub-Location | Result | Qualifier | Reporting Limit | Units | Flow rate (L/min) | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| 55023 | 3/27/2015 | J Upper | Kitchen | 0.021 | | 0.011 | ppmv | 0.5 | 2-hr delay, 4-hr sample |
| 55025 | 3/27/2015 | J Upper | BR2 | 0.0025 | | 0.0020 | ppmv | 1 | 12-hr sample |
| 55026 | 3/27/2015 | J Upper | BR2 | 0.014 | J- | 0.012 | ppmv | 0.5 | 2-hr delay, 4-hr sample |
| 55029 | 3/27/2015 | J Upper | MBR | 0.0031 | | 0.0023 | ppmv | 1 | 12-hr sample |
| 55040 | 3/28/2015 | J Lower | Kitchen | 0.0076 | J- | 0.0020 | ppmv | 1 | 12-hr sample |
| 55041 | 3/27/2015 | J Lower | Kitchen | 0.33 | J- | 0.057 | ppmv | 0.1 | 2-hr delay, 4-hr sample |
| 55042 | 3/28/2015 | J Lower | Utility Closet | 0.0082 | J- | 0.0023 | ppmv | 1 | 12-hr sample |
| 55043 | 3/28/2015 | J Lower | Ambient | 0.002 | U | 0.0020 | ppmv | 1 | 12-hr sample |

ppmv - parts per million by volume
L/min - liters per minute
J- = estimated low due to breakthrough
U = not detected above reporting limit

APPENDIX A
Analytical Reports
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN

St. John Methyl Bromide Site
St. John, USVI

May 2015

EPA Work Assignment No. SERAS-270
LOCKHEED MARTIN Work Order No. SER00270
EPA Contract No. EP-W-09-031

Submitted to
R. Singhvi
EPA/ERT
2890 Woodbridge Avenue
Edison, NJ 08837

5/27/15

D. Killeen — Date
QA/QC Officer

5/27/15

K. Taylor — Date
Program Manager

Analysis by:
ERT/SERAS Laboratory
Katahdin Analytical Services
ALS Environmental Laboratory
Galson Laboratories

Prepared by:/Reviewed by:
J. Soroka/ R. Varsolona, A. LoSurdo, J. Soroka, Y.Mehra

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| Results of the Analysis for VOC (µg/m$^3$) in Air | Table 1.1b |
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| Appendix E | Data for Pesticides in Wipes | AA042 |
| Appendix F | Data for Pesticides in Air | AA052 |
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| Appendix R | Data for VOC in Air | AA080 |
| Appendix S | Data for VOC in Air | AA081 |
| Appendix T | Data for VOC in Air | AA082 |


Appendices will be furnished on request.

## TESTING LABORATORIES INFORMATION

Analysis of Volatile Organic Compounds in Air by SERAS Method #1814, "*Analysis of Volatile Organic Compounds (VOCs) in SUMMA Canister Air Samples by Gas Chromatography/Mass Spectrometry (GC/MS)"*

Analysis of Volatile Organic Compounds in Water by SERAS Method #1806, "*Volatile Organic Analysis in Water by GC/MS*"

Analysis of Pesticides in Wipes by EPA SW846 Method 8081B, "*Organochlorine Pesticides by Gas Chromatography"*

Analysis of Pesticides in Air by EPA Compendium Method TO-10A, "*Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using Low Volume Polyurethane Foam (PUF) Sampling Followed By Gas Chromatographic/Multi-Detector Detection (GC/MD)"*

Analysis of Bromide in Water by EPA SW846 Method 9056A "*Determination of Inorganic Anions by Ion Chromatography*"

Analysis of Inorganic Acids in Air and Wipes by modified NIOSH Method 7903 "*Acids, Inorganic*"

Analysis of Methyl Bromide in Air by modified OSHA method PV2040 "*Methyl Bromide*"

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SGS Galson Laboratories
6601 Kirkville Road
East Syracuse, NY 13057

All analyses were performed according to our NELAP-approved quality assurance program. The test results meet the requirements of the current NELAP standards, where applicable, except as noted in the laboratory case narrative provided. Results are intended to be considered in their entirety and apply only to those analyzed and reported herein.

ERT/SERAS Laboratory is certified by the New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID # 12023 for VOC analysis in water and air.

Katahdin Analytical Services is certified by the New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID # ME002 for the analysis of pesticides in solid and chemical materials and for the

analysis of inorganic ions in water.

ALS Environmental Laboratory is certified by the New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009 for the analysis of pesticides in air.

SGS Galson Laboratories is certified by AIHA laboratory Accreditation Program ID #100324 for Industrial Hygiene for the analysis of inorganic acids in air and wipes.

## Detailed Sample Information

| Laboratory Sample # | Field Sample # |
|---|---|
| R503006-01 | 55000 |
| R503006-02 | 55001 |
| R503006-03 | 55002 |
| R503006-04 | 55003 |
| R503006-05 | 55004 |
| R504001-01 | 55112 |
| R504001-02 | 55113 |
| R504001-03 | 55114 |
| R504001-04 | 55115 |
| R504001-05 | 55116 |
| R504001-06 | 55117 |
| R504001-07 | 55118 |
| R503010-01 | 55036 |
| R503010-02 | 55037 |
| R503010-03 | 55038 |
| R503010-04 | 55039 |
| R503010-05 | 55049 |
| R503010-06 | 55050 |
| R503010-07 | 55152 |
| R504004-01 | P001-AA-U-150405-09 |
| R504004-02 | TB-150405 |
| R504004-03 | P001-IA-L-150405-01 |
| R504004-04 | P001-IA-L-150405-02 |
| R504004-05 | P001-IA-L-150405-03 |
| R504004-06 | P001-IA-L-150405-04 |
| R504004-07 | P001-IA-U-150405-05 |
| R504004-08 | P001-IA-U-150405-06 |
| R504004-09 | P001-IA-U-150405-07 |
| R504004-10 | P001-IA-U-150405-08 |
| SI1948-1 | 55005 |
| SI1948-2 | 55007 |
| SI1948-3 | 55009 |
| SI1948-4 | 55011 |
| SI1948-5 | 55013 |
| SI1948-6 | 55015 |
| SI1948-7 | 55017 |
| SI1948-8 | 55019 |
| SI1948-9 | 55021 |
| SI2005-1 | 55102 |
| SI2005-2 | 55105 |
| SI2005-3 | 55107 |
| SI2005-4 | 55109 |
| SI2005-5 | 55111 |
| SI2005-6 | 55122 |
| SI2005-7 | 55124 |
| P1501256-001 | 55024 |
| P1501256-002 | 55027 |
| P1501256-003 | 55028 |
| P1501256-004 | 55031 |
| P1501307-001 | 55044 |
| P1501307-002 | 55045 |
| R504007-01 | 09821 |
| R504007-02 | 09822 |

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| | |
|---|---|
| R504010-01 | 09837 |
| R504010-02 | 09838 |
| R504010-03 | 09839 |
| R504010-04 | 09840 |
| R504011-01 | 09910 |
| R504011-02 | 09903 |
| R504011-03 | 09907 |
| R504011-04 | 09902 |
| R504011-05 | 09904 |
| R504011-06 | 09905 |
| R504011-07 | 09906 |
| R504011-08 | 09908 |
| R504011-09 | 09913 |
| R504011-10 | 09914 |
| R504011-11 | 09915 |
| R504011-12 | 09916 |
| R504011-13 | 09909 |
| R504011-14 | 09911 |
| SI2004-1 | 55046 |
| SI2004-2 | 55047 |
| SI2004-3 | 55048 |
| L342810-1 | 55103 |
| L342810-2 | 55104 |
| L342810-3 | 55106 |
| L342810-4 | 55108 |
| L342810-5 | 55110 |
| L342810-6 | 55121 |
| L342810-7 | 55123 |
| L342507-1 | 55006 |
| L342507-2 | 55008 |
| L342507-3 | 55010 |
| L342507-4 | 55012 |
| L342507-5 | 55014 |
| L342507-6 | 55016 |
| L342507-7 | 55018 |
| L342507-8 | 55020 |
| L342507-9 | 55022 |
| L342507-10 | 55023 |
| L342507-11 | 55025 |
| L342507-12 | 55026 |
| L342507-13 | 55029 |
| L342507-14 | 55030 |
| L342507-15 | 55032 |
| L342507-16 | 55033 |
| L342507-17 | 55034 |
| L342507-18 | 55035 |
| L342797-1 | 55040 |
| L342797-2 | 55041 |
| L342797-3 | 55042 |
| L342797-4 | 55043 |
| L342797-5 | 55119 |
| L342797-6 | 55120 |
| R505002-01 | 9874 |
| R505002-02 | 9873 |
| R505002-03 | 9875 |
| R505002-04 | 9876 |
| R505002-05 | 9877 |

| | |
|---|---|
| L343973-1 | 09823 |
| L343973-2 | 09824 |
| L343973-3 | 09825 |
| L343973-4 | 09826 |
| L343973-5 | 09827 |
| L343973-6 | 09828 |
| L343973-7 | 09829 |
| L343973-8 | 09830 |
| L343973-9 | 09831 |
| L343973-10 | 09832 |
| L343973-11 | 09833 |
| L343973-12 | 09834 |
| L343973-13 | 09835 |
| L343973-14 | 09836 |
| R505003-01 | 09891 |
| R505003-02 | 09892 |
| R505004-01 | 9931 |
| R505004-02 | 9932 |
| R505004-03 | 09893 |
| R505005-01 | 9935 |
| R505005-02 | 9936 |
| R505006-01 | 9937 |
| R505006-02 | 9938 |
| R505006-03 | 9939 |
| R505006-04 | 9940 |
| R505006-05 | 9941 |
| R505006-06 | 9942 |

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## Introduction

SERAS personnel, in response to WA# SERAS-270, provided analytical support for environmental samples collected from the St. John Methyl Bromide Site in St. John, USVI as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

The samples analyzed at SERAS were treated with procedures consistent with those specified in SERAS SOP #1008, *Sample Receiving, Handling and Storage.*

| Chain of Custody # | Number of Samples | Sampling Date | Date Received | Date Analyzed | Matrix | Analysis/ Method | Laboratory | Data Package |
|---|---|---|---|---|---|---|---|---|
| 00263 | 2 | 03/24/15 | 03/26/15 | 03/26/15 | Air | VOC/SERAS SOP# 1814 | ERT/SERAS | AA033 |
| 00227 | 2 | | | | | | | |
| 00898 | 1 | | | | | | | |
| 06833 | 2 | 03/27/15 | 04/01/15 | 04/02/15 | | | | AA036 |
| 06834 | 2 | | | | | | | |
| 06835 | 2 | 03/28/15 | | | | | | |
| 06828 | 1 | | | | | | | |
| 00297 | 4 | 03/27/15 | 03/30/15 | | Potable Water | VOC/SERAS SOP# 1806 | | AA037 |
| 06826 | 3 | 03/28/15 | 04/01/15 | | | | | |
| 2-040615-130309-0001 | 2 | 04/05/15 | 04/07/15 | 04/09-10/15 | Air | VOC/SERAS SOP# 1814 | | AA050 |
| 2-040615-131356-0002 | 2 | | | | Indoor Air | | | |
| 2-040615-131418-0003 | 2 | | | | | | | |
| 2-040615-131439-0004 | 2 | | | | | | | |
| 2-040615-131510-0005 | 2 | | | | | | | |
| 00294 | 9 | 03/26/15 | 03/28/15 | 03/31 – 4/01/15 | Wipes | Pesticides/SW 846 8081B | Katahdin | AA042 |
| 07600 | 5 | 03/27/15 | 04/01/15 | | | | | |
| | 2 | 03/28/15 | | | | | | |
| 00293 | 4 | 03/27/15 | 03/28/15 | 04/02/15 | Air | Pesticides/ EPA TO-10A | ALS | AA052 |
| 06829 | 2 | 03/28/15 | 04/01/15 | 04/07/15 | | | | AA053 |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 06837 | 2 | 04/14/15 | 04/16/15 | 04/16/15 | Air | VOC/SERAS SOP# 1814 | ERT/SERAS | AA056 |
| 06840 | 2 | 04/17/15 | 04/20/15 | 04/20/15 | | | | AA061 |
| 06860 | 2 | | | | | | | |
| 06865 | 2 | 04/19/15 | 04/21/15 | 04/21-22/15 | | | | AA065 |
| 06862 | 2 | | | | | | | |
| 06866 | 2 | | | | | | | |
| 06841 | 2 | | | | | | | |
| 06863 | 2 | 04/19/15 | | | | | | |
| 06867 | 2 | | | | | | | |
| 06843 | 2 | 04/18/15 | | | | | | |
| 2-050215-174218-0042 | 2 | 05/01-02/15 | 05/03/15 | 05/03-04/15 | | | | AA071 |
| 2-050215-174342-0043 | 2 | | | | | | | |
| 2-050215-174439-0044 | 1 | | | | | | | |
| 06874 | 1 | 05/13/15 | 05/14/15 | 05/14/15 | | | | AA079 |
| | 1 | 05/12/15 | | | | | | |
| 06870 | 1 | 05/13/15 | 05/15/15 | 05/15/15 | | | | AA080 |
| | 1 | 05/14/15 | | | | | | |
| 06875 | 1 | 05/13/15 | | | | | | |
| 06890 | 2 | 05/15/15 | 05/16/15 | 05/16/15 | | | | AA081 |
| 06885 | 2 | 05/17/15 | 05/19/15 | 05/19/15 | | | | AA082 |
| 06886 | 2 | | | | | | | |
| 06887 | 2 | | | | | | | |
| 06827 | 3 | 03/27-28/15 | 04/01/15 | 04/13/15 | Potable Water | Bromide/ SW846 9056A | Katahdin | AA057 |
| 06831 | 5 | 03/27/15 | 04/01/15 | 04/02/15 | Wipes | Bromide/ modified NIOSH 7903 | Galson | AA060 |
| | 2 | 03/28/15 | | | | | | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 00295 | 9 | 03/26/15 | 03/28/15 | 03/31/15 | | | | AA062 |
| 06838 | 7 | 04/15/15 | 04/16/15 | 04/16/15 | | | | AA067 |
| 06839 | 7 | | | | | | | |
| 00296 | 2 | 03/26/15 | 03/28/15 | 04/04-05/15 | Tubes | Methyl Bromide/ modified OSHA PV2040 | | AA062 |
| | 7 | 03/27/15 | | | | | | |
| 06830 | 1 | 03/27/15 | 04/01/15 | 04/07-08/15 | | | | AA063 |
| | 5 | 03/28/15 | | | | | | |

## Case Narrative

Sampling was conducted as per the site-specific Quality Assurance Project Plan (QAPP) and analyzed by the analytical methods as stated in the QAPP. The laboratory reported the data to three significant figures. Any other representation of the data is the responsibility of the user. Data were validated using a Stage 4 validation done manually (S4VM) in accordance with the "Guidance for Labeling Externally Validated Data for Superfund Use." All data validation flags have been inserted into the results tables.

VOCs in Air Package AA033

The concentration of acetone exceeded the linear calibration range for sample 55000. The result for acetone in this sample is qualified estimated (J).

VOCs in Air Package AA036

Trip blank (55115) contained ethyl acetate and toluene above the reporting limit (RL). The toluene result for sample 55112 is qualified non-detect (U) and the RL has been elevated to the level of contamination in the sample.

The area of the internal standard bromochloromethane was above QC limits for samples 55113 and 55114. The results for: propylene, dichlorodifluoromethane, chloromethane, acetone, trichlorofluoromethane, isopropyl alcohol, 2-butanone, chloroform, tetrahydrofuran and 1,2-dichloroethane are qualified estimated (J) for sample 55113. The results for: propylene, dichlorodifluoromethane, chloromethane, acetone, trichlorofluoromethane, isopropyl alcohol, 2-butanone, tetrahydrofuran and 1,2-dichloroethane are qualified estimated (J) for sample 55114.

VOCs in Water Package AA037

Samples 55049, 55050 and 55152 were received above the recommended temperature of $\leq 6^{o}$C. All results for these samples are qualified estimated (U/UJ).

Acetone and 2-butanone were above and styrene was below the percent recovery (%R) criteria for the MS/MSD of sample 55036. The styrene result for sample 55036 is qualified unusable (R).

.

VOCs in Air Package AA050

The data were examined and found to be acceptable.

Pesticides in Wipes Package AA042

The data were examined and found to be acceptable

Pesticides in Air Packages AA052 & AA053

The data were examined and found to be acceptable.

VOCs in Air Package AA056

On the continuing calibration verification for 4/16/15, acetone is above percent difference (%D) criterion. Acetone and 1,3-butadiene were above % R criteria in the LCS of 4/16/15. The results for acetone in samples 09821 and 09822 are qualified estimated (J).

VOCs in Air Package AA061

The data were examined and found to be acceptable.

VOCs in Air Package AA065

The certifications performed on the canisters used for samples 09913, 09914, 09915 and 09916 prior to use did not include naphthalene as an analyte. Naphthalene was not reported for samples 09913, 09914, and 09916. Naphthalene was reported in sample 09915 close to the RL. The use of the naphthalene data in this sample should be used with caution.

On the continuing calibration verification for 4/21/15, acetone and trichlorotrifluoroethane are above %D criteria. The results for acetone in samples 09902 through 09910 and 09913 through 09916 are qualified estimated (J)

Bromide in Water Package AA057

The data were examined and found to be acceptable.

Bromide in Wipes Packages AA060 & AA062

The data were examined and found to be acceptable.

Methyl Bromide in Tubes Package AA062 & AA063

Methyl bromide was detected in the back tube of the series of sorbent tubes for samples 55026, 55030, 55032, 55040, 55041 and 55042. The methyl bromide results in these samples are qualified estimated low (J-) due to breakthrough.

Bromide in Wipes Package AA067

The data were examined and found to be acceptable.

VOCs in Air Packages AA071, AA079, AA080, AA081 & AA082

The data were examined and found to be acceptable.

*The results presented in this report only relate to the samples analyzed. All results are intended to be considered in their entirety. The Environmental Response Team/Scientific, Engineering, Response and Analytical Services laboratory is not responsible for utilization of less than the complete report.*

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**Summary of Abbreviations**

| | |
|---|---|
| BFB | Bromofluorobenzene |
| BS | Blank Spike |
| BSD | Blank Spike Duplicate |
| $^{O}C$ | Degree Centigrade |
| COC | Chain of Custody |
| conc | concentration |
| ctd | continued |
| PCDD/PCDF | Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF) |
| DFTPP | Decafluorotriphenylphosphine |
| EMPC | Estimated maximum possible concentration |
| GC/ECD | Gas Chromatography/Electron Capture Detector |
| GC/MS | Gas Chromatography/ Mass Spectrometry |
| Hg-CVAA | Mercury-Cold Vapor Atomic Absorption |
| ICP-AES | Inductively Coupled Plasma- Atomic Emission Spectroscopy |
| ID | Identification |
| IS | Internal Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| MW | Molecular Weight |
| NA | Not Applicable or Not Available |
| NAD | Normalized Absolute Difference |
| NC | Not Calculated |
| NR | Not Requested/Not Reported |
| % D | Percent Difference |
| % R | Percent Recovery |
| SOP | Standard Operating Procedure |
| PCB | Polychlorinated Biphenyl |
| PDS | Post Digestion Spike |
| Percent RSD | Percent Relative Standard Deviation |
| ppbv | parts per billion by volume |
| ppm | parts per million |
| pptv | parts per trillion by volume |
| QA/QC | Quality Assurance/Quality Control |
| QAPP | Quality Assurance Project Plan |
| RL | Reporting Limit |
| RPD | Relative Percent Difference |
| S4VM | Stage 4 validation done manually |
| SIM | Selected Ion Monitoring |
| SERAS | Scientific Engineering Response and Analytical Services |
| TIC | Tentatively Identified Compound |
| TCLP | Toxicity Characteristic Leaching Procedure |
| SVOC | Semi Volatile Organic Compound |
| VOC | Volatile Organic Compound |
| * | Value exceeds the acceptable QC limits |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| $m^3$ | cubic meter | g | gram | kg | kilogram | L | liter |
| µg | microgram | µL | microliter | mg | milligram | mL | milliliter |
| ng | nanogram | pg | picogram | pCi | picocurie | σ | sigma |

Data Validation Flags

| | | | |
|---|---|---|---|
| J | Value is estimated | R | Rejected or Value is unusable |
| J+ | Value is estimated high | U | Not detected |
| J- | Value is estimated low | UJ | Not detected and RL is estimated |

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2890 Woodbridge Avenue, Building 209 Annex
Edison NJ 08837

Table 1.1a Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP 1814

| SERAS Sample Number | N/A | | R503006-04 | | R503006-01 | | R503006-02 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PSMethodBlank 032615-01 | | 55003 | | 55000 | | 55001 | |
| Sample Location | N/A | | Trip | | Kitchen | | Outside A/C | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | U | 0.200 | U | 0.200 | 1.54 | 0.200 | 0.265 | 0.200 |
| Dichlorodifluoromethane | U | 0.0200 | U | 0.0200 | 0.285 | 0.0200 | 0.279 | 0.0200 |
| Chloromethane | U | 0.0200 | U | 0.0200 | 47.9 | 1.00 | 0.852 | 0.0200 |
| Dichlorotetrafluoroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Vinyl Chloride | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| 1,3-Butadiene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Bromomethane | U | 0.0200 | U | 0.0200 | 748 | 1.00 | 1.04 | 0.0200 |
| Chloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Acetone | U | 0.500 | U | 0.500 | 41.2 J | 25.0 | 2.23 | 0.500 |
| Trichlorofluoromethane | U | 0.0200 | U | 0.0200 | 0.215 | 0.0200 | 0.239 | 0.0200 |
| Isopropyl Alcohol | U | 0.500 | U | 0.500 | 8.43 | 0.500 | U | 0.500 |
| 1,1-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Methylene Chloride | U | 0.0200 | U | 0.0200 | 0.0806 | 0.0200 | 0.0716 | 0.0200 |
| Trichlorotrifluoroethane | U | 0.0200 | U | 0.0200 | 0.0806 | 0.0200 | 0.0892 | 0.0200 |
| trans-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| 1,1-Dichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| MTBE | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Vinyl Acetate | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.172 | 0.0200 |
| 2-Butanone | U | 0.0200 | U | 0.0200 | 1.74 | 0.0200 | 0.111 | 0.0200 |
| cis-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Ethyl Acetate | U | 0.0200 | U | 0.0200 | 1.48 | 0.0200 | U | 0.0200 |
| Hexane | U | 0.0200 | U | 0.0200 | 0.0647 | 0.0200 | 0.0240 | 0.0200 |
| Chloroform | U | 0.0200 | U | 0.0200 | 0.0702 | 0.0200 | U | 0.0200 |
| Tetrahydrofuran | U | 0.0200 | U | 0.0200 | 1.54 | 0.0200 | U | 0.0200 |
| 1,2-Dichloroethane | U | 0.0200 | U | 0.0200 | 2.90 | 0.0200 | U | 0.0200 |
| 1,1,1-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Benzene | U | 0.0200 | U | 0.0200 | 0.0540 | 0.0200 | 0.0303 | 0.0200 |
| Carbon Tetrachloride | U | 0.0200 | U | 0.0200 | 0.0889 | 0.0200 | 0.0724 | 0.0200 |
| Cyclohexane | U | 0.0200 | U | 0.0200 | 0.0243 | 0.0200 | U | 0.0200 |
| 1,2-Dichloropropane | U | 0.0200 | U | 0.0200 | 0.0254 | 0.0200 | U | 0.0200 |
| 1,4-Dioxane | U | 0.0200 | U | 0.0200 | 0.0475 | 0.0200 | U | 0.0200 |
| Trichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Heptane | U | 0.0200 | U | 0.0200 | 0.0894 | 0.0200 | U | 0.0200 |
| cis-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Methyl Isobutyl Ketone | U | 0.0200 | U | 0.0200 | 0.154 | 0.0200 | U | 0.0200 |
| trans-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| 1,1,2-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Toluene | U | 0.0200 | U | 0.0200 | 0.539 | 0.0200 | 0.0423 | 0.0200 |
| 2-Hexanone | U | 0.0200 | U | 0.0200 | 0.0651 | 0.0200 | U | 0.0200 |
| Dibromochloromethane | U | 0.0200 | U | 0.0200 | 0.0333 | 0.0200 | U | 0.0200 |
| 1,2-Dibromoethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Tetrachloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Chlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Ethylbenzene | U | 0.0200 | U | 0.0200 | 0.326 | 0.0200 | U | 0.0200 |
| m&p-Xylene | U | 0.0200 | U | 0.0200 | 0.450 | 0.0200 | U | 0.0200 |
| Bromoform | U | 0.0200 | U | 0.0200 | 0.0780 | 0.0200 | U | 0.0200 |
| Styrene | U | 0.0200 | U | 0.0200 | 1.84 | 0.0200 | U | 0.0200 |
| 1,1,2,2-Tetrachloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| o-Xylene | U | 0.0200 | U | 0.0200 | 0.210 | 0.0200 | U | 0.0200 |
| p-Ethyltoluene | U | 0.0200 | U | 0.0200 | 0.0613 | 0.0200 | U | 0.0200 |
| 1,3,5-Trimethylbenzene | U | 0.0200 | U | 0.0200 | 0.0486 | 0.0200 | U | 0.0200 |
| 1,2,4-Trimethylbenzene | U | 0.0200 | U | 0.0200 | 0.187 | 0.0200 | U | 0.0200 |
| 1,3-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| 1,4-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| 1,2-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.0200 |
| Naphthalene | U | 0.0200 | U | 0.0200 | 0.179 | 0.0200 | U | 0.0200 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP 1814

| SERAS Sample Number | R503006-03 | | R503006-05 | |
|---|---|---|---|---|
| Sample Number | 55002 | | 55004 | |
| Sample Location | MBR | | BR2 | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | 3.88 | 10.0 | 1.47 | 0.200 |
| Dichlorodifluoromethane | U | 1.00 | 0.207 | 0.0200 |
| Chloromethane | 63.6 | 1.00 | 57.3 | 1.00 |
| Dichlorotetrafluoroethane | U | 1.00 | U | 0.0200 |
| Vinyl Chloride | U | 1.00 | U | 0.0200 |
| 1,3-Butadiene | U | 1.00 | U | 0.0200 |
| Bromomethane | 1010 | 1.00 | 1120 | 1.00 |
| Chloroethane | U | 1.00 | U | 0.0200 |
| Acetone | 34.6 | 25.0 | 59.4 | 25.0 |
| Trichlorofluoromethane | U | 1.00 | 0.228 | 0.0200 |
| Isopropyl Alcohol | U | 25.0 | 9.05 | 0.500 |
| 1,1-Dichloroethene | U | 1.00 | U | 0.0200 |
| Methylene Chloride | U | 1.00 | 0.0786 | 0.0200 |
| Trichlorotrifluoroethane | U | 1.00 | 0.0845 | 0.0200 |
| trans-1,2-Dichloroethene | U | 1.00 | U | 0.0200 |
| 1,1-Dichloroethane | U | 1.00 | U | 0.0200 |
| MTBE | U | 1.00 | U | 0.0200 |
| Vinyl Acetate | U | 1.00 | U | 0.0200 |
| 2-Butanone | U | 1.00 | 1.79 | 0.0200 |
| cis-1,2-Dichloroethene | U | 1.00 | U | 0.0200 |
| Ethyl Acetate | 1.49 | 1.00 | 1.49 | 0.0200 |
| Hexane | U | 1.00 | 0.0566 | 0.0200 |
| Chloroform | U | 1.00 | 0.0693 | 0.0200 |
| Tetrahydrofuran | 1.31 | 1.00 | 1.62 | 0.0200 |
| 1,2-Dichloroethane | 3.66 | 1.00 | 2.93 | 0.0200 |
| 1,1,1-Trichloroethane | U | 1.00 | U | 0.0200 |
| Benzene | U | 1.00 | 0.0506 | 0.0200 |
| Carbon Tetrachloride | U | 1.00 | 0.0819 | 0.0200 |
| Cyclohexane | U | 1.00 | U | 0.0200 |
| 1,2-Dichloropropane | U | 1.00 | 0.0252 | 0.0200 |
| 1,4-Dioxane | U | 1.00 | U | 0.0200 |
| Trichloroethene | U | 1.00 | U | 0.0200 |
| Heptane | U | 1.00 | 0.104 | 0.0200 |
| cis-1,3-Dichloropropene | U | 1.00 | U | 0.0200 |
| Methyl Isobutyl Ketone | U | 1.00 | 0.161 | 0.0200 |
| trans-1,3-Dichloropropene | U | 1.00 | U | 0.0200 |
| 1,1,2-Trichloroethane | U | 1.00 | U | 0.0200 |
| Toluene | U | 1.00 | 0.537 | 0.0200 |
| 2-Hexanone | U | 1.00 | 0.0768 | 0.0200 |
| Dibromochloromethane | U | 1.00 | 0.0334 | 0.0200 |
| 1,2-Dibromoethane | U | 1.00 | U | 0.0200 |
| Tetrachloroethene | U | 1.00 | U | 0.0200 |
| Chlorobenzene | U | 1.00 | U | 0.0200 |
| Ethylbenzene | U | 1.00 | 0.337 | 0.0200 |
| m&p-Xylene | U | 1.00 | 0.465 | 0.0200 |
| Bromoform | U | 1.00 | 0.0824 | 0.0200 |
| Styrene | 1.60 | 1.00 | 1.82 | 0.0200 |
| 1,1,2,2-Tetrachloroethane | U | 1.00 | U | 0.0200 |
| o-Xylene | U | 1.00 | 0.221 | 0.0200 |
| p-Ethyltoluene | U | 1.00 | 0.0630 | 0.0200 |
| 1,3,5-Trimethylbenzene | U | 1.00 | 0.0503 | 0.0200 |
| 1,2,4-Trimethylbenzene | U | 1.00 | 0.191 | 0.0200 |
| 1,3-Dichlorobenzene | U | 1.00 | U | 0.0200 |
| 1,4-Dichlorobenzene | U | 1.00 | U | 0.0200 |
| 1,2-Dichlorobenzene | U | 1.00 | U | 0.0200 |
| Naphthalene | U | 1.00 | 0.187 | 0.0200 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R504001-04 | | R504001-01 | | R504001-05 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PSMethodBlank 0401115-03 | | 55115 | | 55112 | | 55116 | |
| Sample Location | N/A | | TRIP | | Ambient | | (A) Background | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | U | 0.200 | U | 0.200 | 0.234 | 0.200 | 1.28 | 1.00 |
| Dichlorodifluoromethane | U | 0.0200 | U | 0.0200 | 0.321 | 0.0200 | 0.530 | 0.100 |
| Chloromethane | U | 0.0200 | U | 0.0200 | 0.776 | 0.0200 | 0.883 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Vinyl Chloride | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,3-Butadiene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Bromomethane | U | 0.0200 | U | 0.0200 | 0.510 | 0.0200 | 0.172 | 0.100 |
| Chloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Acetone | U | 0.500 | U | 0.500 | 3.63 | 0.500 | 47.4 | 2.50 |
| Trichlorofluoromethane | U | 0.0200 | U | 0.0200 | 0.230 | 0.0200 | 0.218 | 0.100 |
| Isopropyl Alcohol | U | 0.500 | U | 0.500 | U | 0.500 | 6.79 | 2.50 |
| 1,1-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Methylene Chloride | U | 0.0200 | U | 0.0200 | 0.0514 | 0.0200 | 0.622 | 0.100 |
| Trichlorotrifluoroethane | U | 0.0200 | U | 0.0200 | 0.0857 | 0.0200 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| MTBE | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Vinyl Acetate | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 2-Butanone | U | 0.0200 | U | 0.0200 | 0.212 | 0.0200 | 88.5 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Ethyl Acetate | U | 0.0200 | 0.0202 | 0.0200 | U | 0.0200 | 0.843 | 0.100 |
| Hexane | U | 0.0200 | U | 0.0200 | 3.05 | 0.0200 | 0.969 | 0.100 |
| Chloroform | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.426 | 0.100 |
| Tetrahydrofuran | U | 0.0200 | U | 0.0200 | 0.0684 | 0.0200 | 13.2 | 0.100 |
| 1,2-Dichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | 2.67 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Benzene | U | 0.0200 | U | 0.0200 | 0.109 | 0.0200 | 0.800 | 0.100 |
| Carbon Tetrachloride | U | 0.0200 | U | 0.0200 | 0.0825 | 0.0200 | 0.114 | 0.100 |
| Cyclohexane | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.290 | 0.100 |
| 1,2-Dichloropropane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,4-Dioxane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Trichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.168 | 0.100 |
| Heptane | U | 0.0200 | U | 0.0200 | 0.0228 | 0.0200 | 0.267 | 0.100 |
| cis-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Methyl Isobutyl Ketone | U | 0.0200 | U | 0.0200 | U | 0.0200 | 1.17 | 0.100 |
| trans-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Toluene | U | 0.0200 | 0.117 | 0.0200 | U | 0.190 | 8.09 | 0.100 |
| 2-Hexanone | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Dibromochloromethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.198 | 0.100 |
| 1,2-Dibromoethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Tetrachloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Chlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Ethylbenzene | U | 0.0200 | U | 0.0200 | 0.0281 | 0.0200 | 0.612 | 0.100 |
| m&p-Xylene | U | 0.0200 | U | 0.0200 | 0.0962 | 0.0200 | 2.13 | 0.100 |
| Bromoform | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.341 | 0.100 |
| Styrene | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.739 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| o-Xylene | U | 0.0200 | U | 0.0200 | 0.0443 | 0.0200 | 0.793 | 0.100 |
| p-Ethyltoluene | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.169 | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.161 | 0.100 |
| 1,2,4-Trimethylbenzene | U | 0.0200 | U | 0.0200 | 0.0442 | 0.0200 | 0.669 | 0.100 |
| 1,3-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Naphthalene | U | 0.0200 | U | 0.0200 | 0.0263 | 0.0200 | 0.149 | 0.100 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | R504001-02 | | R504001-03 | | R504001-06 | | R504001-07 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 55113 | | 55114 | | 55117 | | 55118 | |
| Sample Location | (J) Lower Kitchen | | (J) Lower Utility Rm | | "I" Lower | | "I" Upper | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | 1.52 J | 1.00 | 1.54 J | 1.00 | U | 1.00 | U | 1.00 |
| Dichlorodifluoromethane | 0.335 J | 0.100 | 0.346 J | 0.100 | 0.528 | 0.100 | 0.589 | 0.100 |
| Chloromethane | 28.3 J | 0.100 | 28.1 J | 0.100 | 0.818 | 0.100 | 0.878 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Chloride | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3-Butadiene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Bromomethane | 572 | 1.00 | 590 | 1.00 | U | 0.100 | U | 0.100 |
| Chloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Acetone | 59.7 J | 2.50 | 58.7 J | 2.50 | 27.3 | 2.50 | 20.8 | 2.50 |
| Trichlorofluoromethane | 0.148 J | 0.100 | 0.156 J | 0.100 | 0.229 | 0.100 | 0.243 | 0.100 |
| Isopropyl Alcohol | 17.1 J | 2.50 | 18.1 J | 2.50 | 9.74 | 2.50 | 5.55 | 2.50 |
| 1,1-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Methylene Chloride | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Trichlorotrifluoroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| MTBE | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Acetate | U | 0.100 | U | 0.100 | U | 0.100 | 0.167 | 0.100 |
| 2-Butanone | 2.02 J | 0.100 | 2.02 J | 0.100 | 1.06 | 0.100 | 0.546 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethyl Acetate | U | 0.100 | U | 0.100 | U | 0.100 | 0.453 | 0.100 |
| Hexane | 344 | 1.00 | 358 | 1.00 | 12.1 | 0.100 | 0.505 | 0.100 |
| Chloroform | 0.101 J | 0.100 | U | 0.100 | 0.248 | 0.100 | 0.178 | 0.100 |
| Tetrahydrofuran | 1.76 J | 0.100 | 1.94 J | 0.100 | 0.776 | 0.100 | U | 0.100 |
| 1,2-Dichloroethane | 3.02 J | 0.100 | 3.05 J | 0.100 | 5.16 | 0.100 | 0.843 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Benzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Carbon Tetrachloride | 0.103 | 0.100 | 0.108 | 0.100 | U | 0.100 | U | 0.100 |
| Cyclohexane | 0.561 | 0.100 | 0.558 | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dioxane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Trichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Heptane | 0.156 | 0.100 | 0.153 | 0.100 | U | 0.100 | U | 0.100 |
| cis-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Methyl Isobutyl Ketone | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| trans-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Toluene | 0.917 | 0.100 | 0.911 | 0.100 | 1.66 | 0.100 | 0.693 | 0.100 |
| 2-Hexanone | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Dibromochloromethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Tetrachloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Chlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethylbenzene | 0.383 | 0.100 | 0.416 | 0.100 | 0.177 | 0.100 | U | 0.100 |
| m&p-Xylene | 0.692 | 0.100 | 0.711 | 0.100 | 0.440 | 0.100 | 0.127 | 0.100 |
| Bromoform | 0.115 | 0.100 | 0.121 | 0.100 | U | 0.100 | U | 0.100 |
| Styrene | 2.13 | 0.100 | 2.02 | 0.100 | 0.617 | 0.100 | 0.303 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| o-Xylene | 0.376 | 0.100 | 0.368 | 0.100 | 0.173 | 0.100 | U | 0.100 |
| p-Ethyltoluene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2,4-Trimethylbenzene | 0.354 | 0.100 | 0.355 | 0.100 | U | 0.100 | U | 0.100 |
| 1,3-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Naphthalene | 0.345 | 0.100 | 0.326 | 0.100 | U | 0.100 | U | 0.100 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814



| SERAS Sample Number | N/A | | R504004-02 | | R504004-01 | | R504004-07 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS Methodblank 040915-04 | | TB-150405 | | P001-AA-U-150405-09 | | P001-IA-U-140405-05 | |
| Sample Location | N/A | | N/A | | N/A | | Upper | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | U | 0.200 | U | 0.200 | 1.23 | 0.200 | 4.51 | 1.00 |
| Dichlorodifluoromethane | U | 0.0200 | U | 0.0200 | 0.204 | 0.0200 | 0.452 | 0.100 |
| Chloromethane | U | 0.0200 | U | 0.0200 | 0.604 | 0.0200 | 4.61 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Vinyl Chloride | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,3-Butadiene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Bromomethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | 23.5 | 0.100 |
| Chloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Acetone | U | 0.500 | U | 0.500 | 7.35 | 0.500 | 55.9 | 2.50 |
| Trichlorofluoromethane | U | 0.0200 | U | 0.0200 | 0.169 | 0.0200 | 0.213 | 0.100 |
| Isopropyl Alcohol | U | 0.500 | U | 0.500 | 0.623 | 0.500 | U | 2.50 |
| 1,1-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Methylene Chloride | U | 0.0200 | U | 0.0200 | 0.0508 | 0.0200 | 0.112 | 0.100 |
| Trichlorotrifluoroethane | U | 0.0200 | U | 0.0200 | 0.0558 | 0.0200 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| MTBE | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Vinyl Acetate | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 2-Butanone | U | 0.0200 | U | 0.0200 | 0.151 | 0.0200 | 3.14 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Ethyl Acetate | U | 0.0200 | U | 0.0200 | U | 0.0200 | 1.71 | 0.100 |
| Hexane | U | 0.0200 | U | 0.0200 | 13.1 | 0.0200 | 0.615 | 0.100 |
| Chloroform | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.108 | 0.100 |
| Tetrahydrofuran | U | 0.0200 | U | 0.0200 | U | 0.0200 | 1.40 | 0.100 |
| 1,2-Dichloroethane | U | 0.0200 | U | 0.0200 | 0.0273 | 0.0200 | 12.8 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Benzene | U | 0.0200 | U | 0.0200 | 0.473 | 0.0200 | 0.115 | 0.100 |
| Carbon Tetrachloride | U | 0.0200 | U | 0.0200 | 0.0534 | 0.0200 | U | 0.100 |
| Cyclohexane | U | 0.0200 | U | 0.0200 | 0.144 | 0.0200 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,4-Dioxane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Trichloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Heptane | U | 0.0200 | U | 0.0200 | 0.192 | 0.0200 | 0.216 | 0.100 |
| cis-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Methyl Isobutyl Ketone | U | 0.0200 | U | 0.0200 | 0.0258 | 0.0200 | 0.201 | 0.100 |
| trans-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Toluene | U | 0.0200 | U | 0.0200 | 1.53 | 0.0200 | 1.40 | 0.100 |
| 2-Hexanone | U | 0.0200 | U | 0.0200 | U | 0.0200 | 0.123 | 0.100 |
| Dibromochloromethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Tetrachloroethene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Chlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Ethylbenzene | U | 0.0200 | U | 0.0200 | 0.277 | 0.0200 | 0.996 | 0.100 |
| m&p-Xylene | U | 0.0200 | U | 0.0200 | 0.901 | 0.0200 | 1.10 | 0.100 |
| Bromoform | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Styrene | U | 0.0200 | U | 0.0200 | 0.0450 | 0.0200 | 3.77 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| o-Xylene | U | 0.0200 | U | 0.0200 | 0.337 | 0.0200 | 0.518 | 0.100 |
| p-Ethyltoluene | U | 0.0200 | U | 0.0200 | 0.0749 | 0.0200 | U | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.0200 | U | 0.0200 | 0.0814 | 0.0200 | U | 0.100 |
| 1,2,4-Trimethylbenzene | U | 0.0200 | U | 0.0200 | 0.274 | 0.0200 | 0.166 | 0.100 |
| 1,3-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.0200 | U | 0.100 |
| Naphthalene | U | 0.0200 | U | 0.0200 | 0.0524 | 0.0200 | 0.165 | 0.100 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814



| SERAS Sample Number | R504004-08 | | R504004-09 | | R504004-10 | | R504004-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | P001-IA-U-140405-06 | | P001-IA-U-140405-07 | | P001-IA-U-140405-08 | | P001-IA-L-140405-01 | |
| Sample Location | Upper | | Upper | | Upper | | Lower | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | 4.55 | 1.00 | 6.14 | 1.00 | 4.89 | 1.00 | 1.48 | 1.00 |
| Dichlorodifluoromethane | 0.442 | 0.100 | 0.447 | 0.100 | 0.421 | 0.100 | 0.403 | 0.100 |
| Chloromethane | 4.34 | 0.100 | 4.31 | 0.100 | 4.21 | 0.100 | 8.49 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Chloride | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3-Butadiene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Bromomethane | 22.5 | 0.100 | 22.6 | 0.100 | 21.8 | 0.100 | 85.1 | 0.100 |
| Chloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Acetone | 64.7 | 2.50 | 58.7 | 2.50 | 58.6 | 2.50 | 92.4 | 2.50 |
| Trichlorofluoromethane | 0.200 | 0.100 | 0.210 | 0.100 | 0.194 | 0.100 | 0.198 | 0.100 |
| Isopropyl Alcohol | U | 2.50 | U | 2.50 | U | 2.50 | 7.91 | 2.50 |
| 1,1-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Methylene Chloride | 0.120 | 0.100 | 0.122 | 0.100 | U | 0.100 | U | 0.100 |
| Trichlorotrifluoroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| MTBE | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Acetate | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 2-Butanone | 2.99 | 0.100 | 2.95 | 0.100 | 3.23 | 0.100 | 3.12 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethyl Acetate | 1.67 | 0.100 | 1.75 | 0.100 | 1.76 | 0.100 | 0.838 | 0.100 |
| Hexane | 0.715 | 0.100 | 1.09 | 0.100 | 0.762 | 0.100 | 0.802 | 0.100 |
| Chloroform | 0.106 | 0.100 | 0.108 | 0.100 | 0.109 | 0.100 | 0.106 | 0.100 |
| Tetrahydrofuran | 1.36 | 0.100 | 1.32 | 0.100 | 1.76 | 0.100 | 2.31 | 0.100 |
| 1,2-Dichloroethane | 10.7 | 0.100 | 12.3 | 0.100 | 11.0 | 0.100 | 1.12 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Benzene | 0.149 | 0.100 | 0.102 | 0.100 | 0.111 | 0.100 | U | 0.100 |
| Carbon Tetrachloride | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Cyclohexane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dioxane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Trichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Heptane | 0.200 | 0.100 | 0.222 | 0.100 | 0.211 | 0.100 | 0.177 | 0.100 |
| cis-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Methyl Isobutyl Ketone | 0.179 | 0.100 | 0.149 | 0.100 | 0.270 | 0.100 | 0.169 | 0.100 |
| trans-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Toluene | 1.41 | 0.100 | 1.39 | 0.100 | 1.36 | 0.100 | 1.17 | 0.100 |
| 2-Hexanone | 0.129 | 0.100 | 0.111 | 0.100 | 0.112 | 0.100 | U | 0.100 |
| Dibromochloromethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Tetrachloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Chlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethylbenzene | 0.949 | 0.100 | 0.965 | 0.100 | 0.928 | 0.100 | 0.506 | 0.100 |
| m&p-Xylene | 1.03 | 0.100 | 0.992 | 0.100 | 1.01 | 0.100 | 1.05 | 0.100 |
| Bromoform | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Styrene | 3.71 | 0.100 | 4.20 | 0.100 | 3.79 | 0.100 | 1.20 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| o-Xylene | 0.482 | 0.100 | 0.465 | 0.100 | 0.475 | 0.100 | 0.620 | 0.100 |
| p-Ethyltoluene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.100 | U | 0.100 | U | 0.100 | 0.101 | 0.100 |
| 1,2,4-Trimethylbenzene | 0.161 | 0.100 | 0.160 | 0.100 | 0.157 | 0.100 | 0.459 | 0.100 |
| 1,3-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Naphthalene | 0.155 | 0.100 | 0.126 | 0.100 | 0.131 | 0.100 | 0.298 | 0.100 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814



| SERAS Sample Number | R504004-04 | | R504004-05 | | N/A | | R504004-06 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | P001-IA-L-140405-02 | | P001-IA-L-140405-03 | | Methodblank 041015-01 | | P001-IA-L-140405-04 | |
| Sample Location | Lower | | Lower | | N/A | | Lower | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | 1.41 | 1.00 | 1.46 | 1.00 | U | 0.0200 | 1.60 | 1.00 |
| Dichlorodifluoromethane | 0.388 | 0.100 | 0.402 | 0.100 | U | 0.0200 | 0.506 | 0.100 |
| Chloromethane | 8.38 | 0.100 | 8.88 | 0.100 | U | 0.0200 | 10.1 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Vinyl Chloride | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| 1,3-Butadiene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Bromomethane | 81.9 | 0.100 | 88.0 | 0.100 | U | 0.0200 | 104 | 0.100 |
| Chloroethane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Acetone | 120 | 2.50 | 99.3 | 2.50 | U | 0.500 | 116 | 2.50 |
| Trichlorofluoromethane | 0.186 | 0.100 | 0.198 | 0.100 | U | 0.0200 | 0.234 | 0.100 |
| Isopropyl Alcohol | 6.76 | 2.50 | 10.2 | 2.50 | U | 0.500 | 29.8 | 2.50 |
| 1,1-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Methylene Chloride | U | 0.100 | U | 0.100 | U | 0.0200 | 0.109 | 0.100 |
| Trichlorotrifluoroethane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| MTBE | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Vinyl Acetate | U | 0.100 | U | 0.100 | U | 0.0200 | 1.00 | 0.100 |
| 2-Butanone | 3.10 | 0.100 | 3.18 | 0.100 | U | 0.0200 | 3.66 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Ethyl Acetate | 0.809 | 0.100 | 0.832 | 0.100 | U | 0.0200 | 0.969 | 0.100 |
| Hexane | 0.746 | 0.100 | 0.782 | 0.100 | U | 0.0200 | 0.924 | 0.100 |
| Chloroform | 0.103 | 0.100 | 0.113 | 0.100 | U | 0.0200 | 0.131 | 0.100 |
| Tetrahydrofuran | 2.35 | 0.100 | 2.59 | 0.100 | U | 0.0200 | 3.08 | 0.100 |
| 1,2-Dichloroethane | 1.06 | 0.100 | 1.12 | 0.100 | U | 0.0200 | 1.31 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Benzene | U | 0.100 | 0.149 | 0.100 | U | 0.0200 | U | 0.100 |
| Carbon Tetrachloride | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Cyclohexane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| 1,4-Dioxane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Trichloroethene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Heptane | 0.171 | 0.100 | 0.166 | 0.100 | U | 0.0200 | 0.210 | 0.100 |
| cis-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Methyl Isobutyl Ketone | 0.182 | 0.100 | 0.217 | 0.100 | U | 0.0200 | 0.240 | 0.100 |
| trans-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Toluene | 1.16 | 0.100 | 1.21 | 0.100 | U | 0.0200 | 1.33 | 0.100 |
| 2-Hexanone | 0.108 | 0.100 | 0.130 | 0.100 | U | 0.0200 | 0.134 | 0.100 |
| Dibromochloromethane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Tetrachloroethene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Chlorobenzene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Ethylbenzene | 0.499 | 0.100 | 0.502 | 0.100 | U | 0.0200 | 0.580 | 0.100 |
| m&p-Xylene | 1.05 | 0.100 | 1.03 | 0.100 | U | 0.0200 | 1.20 | 0.100 |
| Bromoform | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Styrene | 1.24 | 0.100 | 1.29 | 0.100 | U | 0.0200 | 1.50 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| o-Xylene | 0.615 | 0.100 | 0.602 | 0.100 | U | 0.0200 | 0.710 | 0.100 |
| p-Ethyltoluene | U | 0.100 | U | 0.100 | U | 0.0200 | 0.113 | 0.100 |
| 1,3,5-Trimethylbenzene | 0.105 | 0.100 | U | 0.100 | U | 0.0200 | 0.119 | 0.100 |
| 1,2,4-Trimethylbenzene | 0.473 | 0.100 | 0.448 | 0.100 | U | 0.0200 | 0.531 | 0.100 |
| 1,3-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.0200 | U | 0.100 |
| Naphthalene | 0.318 | 0.100 | 0.325 | 0.100 | U | 0.0200 | 0.365 | 0.100 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R504007-01 | | R504007-02 | |
|---|---|---|---|---|---|---|
| Sample Number | Methodblank 041615-01 | | 09821 | | 09822 | |
| Sample Location | N/A | | Kitchen/upper | | Kitchen/lower | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | U | 0.20 | U | 1.00 | U | 1.00 |
| Dichlorodifluoromethane | U | 0.0200 | 0.524 | 0.100 | 0.481 | 0.100 |
| Chloromethane | U | 0.0200 | 0.801 | 0.100 | 0.708 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.0200 | U | 0.100 | U | 0.100 |
| Vinyl Chloride | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,3-Butadiene | U | 0.0200 | U | 0.100 | U | 0.100 |
| Bromomethane | U | 0.0200 | 0.237 | 0.100 | 0.457 | 0.100 |
| Chloroethane | U | 0.0200 | U | 0.100 | U | 0.100 |
| Acetone | U | 0.500 | 11.2 J | 2.50 | 10.5 J | 2.50 |
| Trichlorofluoromethane | U | 0.0200 | 0.259 | 0.100 | 0.234 | 0.100 |
| Isopropyl Alcohol | U | 0.500 | 1.45 | 2.50 | 3.92 | 2.50 |
| 1,1-Dichloroethene | U | 0.0200 | U | 0.100 | U | 0.100 |
| Methylene Chloride | U | 0.0200 | U | 0.100 | U | 0.100 |
| Trichlorotrifluoroethane | U | 0.0200 | U | 0.100 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.0200 | U | 0.100 | U | 0.100 |
| MTBE | U | 0.0200 | U | 0.100 | U | 0.100 |
| Vinyl Acetate | U | 0.0200 | U | 0.100 | U | 0.100 |
| 2-Butanone | U | 0.0200 | 0.337 | 0.100 | 0.406 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.0200 | U | 0.100 | U | 0.100 |
| Ethyl Acetate | U | 0.0200 | U | 0.100 | U | 0.100 |
| Hexane | U | 0.0200 | U | 0.100 | U | 0.100 |
| Chloroform | U | 0.0200 | U | 0.100 | U | 0.100 |
| Tetrahydrofuran | U | 0.0200 | U | 0.100 | 0.241 | 0.100 |
| 1,2-Dichloroethane | U | 0.0200 | 0.616 | 0.100 | 0.466 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.0200 | U | 0.100 | U | 0.100 |
| Benzene | U | 0.0200 | U | 0.100 | U | 0.100 |
| Carbon Tetrachloride | U | 0.0200 | U | 0.100 | U | 0.100 |
| Cyclohexane | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,4-Dioxane | U | 0.0200 | U | 0.100 | U | 0.100 |
| Trichloroethene | U | 0.0200 | U | 0.100 | U | 0.100 |
| Heptane | U | 0.0200 | U | 0.100 | U | 0.100 |
| cis-1,3-Dichloropropene | U | 0.0200 | U | 0.100 | U | 0.100 |
| Methyl Isobutyl Ketone | U | 0.0200 | U | 0.100 | U | 0.100 |
| trans-1,3-Dichloropropene | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.0200 | U | 0.100 | U | 0.100 |
| Toluene | U | 0.0200 | 0.159 | 0.100 | 0.134 | 0.100 |
| 2-Hexanone | U | 0.0200 | U | 0.100 | U | 0.100 |
| Dibromochloromethane | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.0200 | U | 0.100 | U | 0.100 |
| Tetrachloroethene | U | 0.0200 | U | 0.100 | U | 0.100 |
| Chlorobenzene | U | 0.0200 | U | 0.100 | U | 0.100 |
| Ethylbenzene | U | 0.0200 | 0.368 | 0.100 | 0.336 | 0.100 |
| m&p-Xylene | U | 0.0200 | 0.340 | 0.100 | 0.333 | 0.100 |
| Bromoform | U | 0.0200 | U | 0.100 | U | 0.100 |
| Styrene | U | 0.0200 | 0.322 | 0.100 | 0.361 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.0200 | U | 0.100 | U | 0.100 |
| o-Xylene | U | 0.0200 | 0.176 | 0.100 | 0.190 | 0.100 |
| p-Ethyltoluene | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2,4-Trimethylbenzene | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,3-Dichlorobenzene | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.0200 | U | 0.100 | U | 0.100 |
| Naphthalene | U | 0.0200 | U | 0.100 | 0.160 | 0.100 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R504010-04 | | R504010-01 | | R504010-02 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Methodblank 042015-02 | | 09840 | | 09837 | | 09838 | |
| Sample Location | N/A | | Trip Blank | | Up J-Kitchen | | Low J-Kitchen | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | U | 0.200 | U | 0.200 | U | 1.00 | U | 1.00 |
| Dichlorodifluoromethane | U | 0.0200 | U | 0.0200 | 0.484 | 0.100 | 0.449 | 0.100 |
| Chloromethane | U | 0.0200 | U | 0.0200 | 0.847 | 0.100 | 1.00 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Vinyl Chloride | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,3-Butadiene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Bromomethane | U | 0.0200 | U | 0.0200 | 0.318 | 0.100 | 3.23 | 0.100 |
| Chloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Acetone | U | 0.500 | U | 0.500 | 10.9 | 2.50 | 19.9 | 2.50 |
| Trichlorofluoromethane | U | 0.0200 | U | 0.0200 | 0.227 | 0.100 | 0.214 | 0.100 |
| Isopropyl Alcohol | U | 0.500 | U | 0.500 | U | 2.50 | 7.89 | 2.50 |
| 1,1-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Methylene Chloride | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Trichlorotrifluoroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| MTBE | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Vinyl Acetate | U | 0.0200 | U | 0.0200 | U | 0.100 | 0.377 | 0.100 |
| 2-Butanone | U | 0.0200 | U | 0.0200 | 0.324 | 0.100 | 0.995 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Ethyl Acetate | U | 0.0200 | U | 0.0200 | 0.120 | 0.100 | 0.153 | 0.100 |
| Hexane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Chloroform | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Tetrahydrofuran | U | 0.0200 | U | 0.0200 | U | 0.100 | 0.721 | 0.100 |
| 1,2-Dichloroethane | U | 0.0200 | U | 0.0200 | 1.48 | 0.100 | 1.20 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Benzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Carbon Tetrachloride | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Cyclohexane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,4-Dioxane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Trichloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Heptane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| cis-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Methyl Isobutyl Ketone | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| trans-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Toluene | U | 0.0200 | U | 0.0200 | 0.266 | 0.100 | 0.459 | 0.100 |
| 2-Hexanone | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Dibromochloromethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Tetrachloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Chlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Ethylbenzene | U | 0.0200 | U | 0.0200 | 0.206 | 0.100 | 0.233 | 0.100 |
| m&p-Xylene | U | 0.0200 | U | 0.0200 | 0.259 | 0.100 | 0.310 | 0.100 |
| Bromoform | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Styrene | U | 0.0200 | U | 0.0200 | 0.726 | 0.100 | 0.661 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| o-Xylene | U | 0.0200 | U | 0.0200 | 0.127 | 0.100 | 0.174 | 0.100 |
| p-Ethyltoluene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2,4-Trimethylbenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | 0.109 | 0.100 |
| 1,3-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Naphthalene | U | 0.0200 | U | 0.0200 | U | 0.100 | 0.147 | 0.100 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| | |
|---|---|
| SERAS Sample Number | R504010-03 |
| Sample Number | 09839 |
| Sample Location | Low J-Bag |

| Analyte | Results ppbv | *RL* ppbv |
|---|---|---|
| Propylene | U | 1.00 |
| Dichlorodifluoromethane | 0.476 | 0.100 |
| Chloromethane | 5.61 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.100 |
| Vinyl Chloride | U | 0.100 |
| 1,3-Butadiene | U | 0.100 |
| Bromomethane | 3.37 | 0.100 |
| Chloroethane | 0.147 | 0.100 |
| Acetone | 68.7 | 2.50 |
| Trichlorofluoromethane | 0.225 | 0.100 |
| Isopropyl Alcohol | 5.73 | 2.50 |
| 1,1-Dichloroethene | U | 0.100 |
| Methylene Chloride | 0.104 | 0.100 |
| Trichlorotrifluoroethane | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.100 |
| 1,1-Dichloroethane | U | 0.100 |
| MTBE | U | 0.100 |
| Vinyl Acetate | 0.715 | 0.100 |
| 2-Butanone | 2.72 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.100 |
| Ethyl Acetate | 0.485 | 0.100 |
| Hexane | 0.341 | 0.100 |
| Chloroform | 0.129 | 0.100 |
| Tetrahydrofuran | 0.571 | 0.100 |
| 1,2-Dichloroethane | 0.443 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.100 |
| Benzene | U | 0.100 |
| Carbon Tetrachloride | U | 0.100 |
| Cyclohexane | 4.50 | 0.100 |
| 1,2-Dichloropropane | U | 0.100 |
| 1,4-Dioxane | U | 0.100 |
| Trichloroethene | U | 0.100 |
| Heptane | 0.142 | 0.100 |
| cis-1,3-Dichloropropene | U | 0.100 |
| Methyl Isobutyl Ketone | 0.106 | 0.100 |
| trans-1,3-Dichloropropene | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.100 |
| Toluene | 0.748 | 0.100 |
| 2-Hexanone | U | 0.100 |
| Dibromochloromethane | U | 0.100 |
| 1,2-Dibromoethane | U | 0.100 |
| Tetrachloroethene | U | 0.100 |
| Chlorobenzene | U | 0.100 |
| Ethylbenzene | 0.101 | 0.100 |
| m&p-Xylene | 0.166 | 0.100 |
| Bromoform | U | 0.100 |
| Styrene | 0.254 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.100 |
| o-Xylene | U | 0.100 |
| p-Ethyltoluene | U | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.100 |
| 1,2,4-Trimethylbenzene | U | 0.100 |
| 1,3-Dichlorobenzene | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.100 |
| Naphthalene | 0.130 | 0.100 |

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Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R504011-14 | | R504011-03 | | R504011-05 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Methodblank 042115-02 | | 09911 | | 09907 | | 09904 | |
| Sample Location | N/A | | Trip Blank | | Kitchen/Upper J | | Kitchen/Lower J | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | U | 0.200 | U | 0.200 | 2.39 | 1.00 | 1.10 | 1.00 |
| Dichlorodifluoromethane | U | 0.0200 | U | 0.0200 | 0.526 | 0.100 | 0.477 | 0.100 |
| Chloromethane | U | 0.0200 | U | 0.0200 | 1.25 | 0.100 | 1.75 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Vinyl Chloride | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,3-Butadiene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Bromomethane | U | 0.0200 | U | 0.0200 | 1.04 | 0.100 | 10.6 | 0.100 |
| Chloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Acetone | U | 0.500 | U | 0.500 | 23.3 J | 2.50 | 39.5 J | 2.50 |
| Trichlorofluoromethane | U | 0.0200 | U | 0.0200 | 0.292 | 0.100 | 0.237 | 0.100 |
| Isopropyl Alcohol | U | 0.500 | U | 0.500 | U | 2.50 | 19.0 | 2.50 |
| 1,1-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Methylene Chloride | U | 0.0200 | U | 0.0200 | 0.107 | 0.100 | 0.101 | 0.100 |
| Trichlorotrifluoroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| MTBE | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Vinyl Acetate | U | 0.0200 | U | 0.0200 | U | 0.100 | 0.650 | 0.100 |
| 2-Butanone | U | 0.0200 | U | 0.0200 | 1.29 | 0.100 | 2.38 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Ethyl Acetate | U | 0.0200 | U | 0.0200 | 0.417 | 0.100 | 0.652 | 0.100 |
| Hexane | U | 0.0200 | U | 0.0200 | 0.260 | 0.100 | 1.10 | 0.100 |
| Chloroform | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Tetrahydrofuran | U | 0.0200 | 0.0228 | 0.0200 | 0.610 | 0.100 | 2.35 | 0.100 |
| 1,2-Dichloroethane | U | 0.0200 | U | 0.0200 | 6.75 | 0.100 | 1.80 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Benzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Carbon Tetrachloride | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Cyclohexane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,4-Dioxane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Trichloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Heptane | U | 0.0200 | U | 0.0200 | 0.110 | 0.100 | 0.111 | 0.100 |
| cis-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Methyl Isobutyl Ketone | U | 0.0200 | U | 0.0200 | 0.221 | 0.100 | 0.139 | 0.100 |
| trans-1,3-Dichloropropene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Toluene | U | 0.0200 | U | 0.0200 | 0.815 | 0.100 | 1.23 | 0.100 |
| 2-Hexanone | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Dibromochloromethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Tetrachloroethene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Chlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Ethylbenzene | U | 0.0200 | U | 0.0200 | 0.672 | 0.100 | 0.377 | 0.100 |
| m&p-Xylene | U | 0.0200 | U | 0.0200 | 0.744 | 0.100 | 0.639 | 0.100 |
| Bromoform | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Styrene | U | 0.0200 | U | 0.0200 | 2.97 | 0.100 | 1.31 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| o-Xylene | U | 0.0200 | U | 0.0200 | 0.385 | 0.100 | 0.344 | 0.100 |
| p-Ethyltoluene | U | 0.0200 | U | 0.0200 | U | 0.100 | 0.108 | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2,4-Trimethylbenzene | U | 0.0200 | U | 0.0200 | 0.118 | 0.100 | 0.285 | 0.100 |
| 1,3-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.0200 | U | 0.0200 | U | 0.100 | U | 0.100 |
| Naphthalene | U | 0.0200 | U | 0.0200 | 0.108 | 0.100 | 0.297 | 0.100 |

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Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | R504011-01 | | R504011-02 | | R504011-04 | | R504011-06 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 09910 | | 09903 | | 09902 | | 09905 | |
| Sample Location | BR1/Upper J | | BR2/Upper J | | Master/Upper J | | Master/Lower J | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | 1.50 | 1.00 | 1.70 | 1.00 | 4.13 | 1.00 | 1.10 | 1.00 |
| Dichlorodifluoromethane | 0.403 | 0.100 | 0.453 | 0.100 | 0.454 | 0.100 | 0.452 | 0.100 |
| Chloromethane | 1.09 | 0.100 | 1.12 | 0.100 | 1.19 | 0.100 | 1.62 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Chloride | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3-Butadiene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Bromomethane | 0.757 | 0.100 | 0.824 | 0.100 | 1.10 | 0.100 | 9.67 | 0.100 |
| Chloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Acetone | 28.3 J | 2.50 | 31.6 J | 2.50 | 36.7 J | 2.50 | 36.9 J | 2.50 |
| Trichlorofluoromethane | 0.236 | 0.100 | 0.216 | 0.100 | 0.221 | 0.100 | 0.219 | 0.100 |
| Isopropyl Alcohol | 3.76 | 2.50 | 4.04 | 2.50 | 4.99 | 2.50 | 22.9 | 2.50 |
| 1,1-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Methylene Chloride | 0.108 | 0.100 | U | 0.100 | 0.100 | 0.100 | U | 0.100 |
| Trichlorotrifluoroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| MTBE | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Acetate | 0.640 | 0.100 | 0.810 | 0.100 | 0.686 | 0.100 | 0.373 | 0.100 |
| 2-Butanone | 1.59 | 0.100 | 1.69 | 0.100 | 2.30 | 0.100 | 2.22 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethyl Acetate | 0.711 | 0.100 | 0.408 | 0.100 | 0.485 | 0.100 | 0.749 | 0.100 |
| Hexane | 1.22 | 0.100 | 0.266 | 0.100 | 0.233 | 0.100 | 1.44 | 0.100 |
| Chloroform | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Tetrahydrofuran | 1.16 | 0.100 | 0.662 | 0.100 | 1.85 | 0.100 | 2.34 | 0.100 |
| 1,2-Dichloroethane | 6.28 | 0.100 | 6.39 | 0.100 | 9.28 | 0.100 | 1.78 | 0.100 |
| 1,1,1-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Benzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Carbon Tetrachloride | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Cyclohexane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dioxane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Trichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Heptane | U | 0.100 | U | 0.100 | U | 0.100 | 0.111 | 0.100 |
| cis-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Methyl Isobutyl Ketone | U | 0.100 | 0.362 | 0.100 | 0.268 | 0.100 | 0.262 | 0.100 |
| trans-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Toluene | 0.851 | 0.100 | 0.699 | 0.100 | 0.873 | 0.100 | 1.33 | 0.100 |
| 2-Hexanone | U | 0.100 | U | 0.100 | 0.116 | 0.100 | U | 0.100 |
| Dibromochloromethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Tetrachloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Chlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethylbenzene | 0.572 | 0.100 | 0.636 | 0.100 | 0.813 | 0.100 | 0.387 | 0.100 |
| m&p-Xylene | 0.635 | 0.100 | 0.682 | 0.100 | 0.847 | 0.100 | 0.633 | 0.100 |
| Bromoform | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Styrene | 1.82 | 0.100 | 2.04 | 0.100 | 4.01 | 0.100 | 1.34 | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| o-Xylene | 0.342 | 0.100 | 0.357 | 0.100 | 0.420 | 0.100 | 0.349 | 0.100 |
| p-Ethyltoluene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2,4-Trimethylbenzene | 0.106 | 0.100 | 0.127 | 0.100 | 0.125 | 0.100 | 0.264 | 0.100 |
| 1,3-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Naphthalene | 0.123 | 0.100 | 0.165 | 0.100 | 0.164 | 0.100 | 0.149 | 0.100 |

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Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | R504011-07 | | R504011-08 | | R504011-09 | | R504011-10 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 09906 | | 09908 | | 09913 | | 09914 | |
| Sample Location | Bedroom/Lower J | | Patio/Lower J | | Clubhouse AA | | Lower Porch AA | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | 1.09 | 1.00 | U | 1.00 | U | 1.00 | U | 1.00 |
| Dichlorodifluoromethane | 0.470 | 0.100 | 0.529 | 0.100 | 0.506 | 0.100 | 0.479 | 0.100 |
| Chloromethane | 1.70 | 0.100 | 0.783 | 0.100 | 0.739 | 0.100 | 0.862 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Chloride | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3-Butadiene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Bromomethane | 10.3 | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Chloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Acetone | 39.4 J | 2.50 | 3.79 J | 2.50 | 6.82 J | 2.50 | 8.27 J | 2.50 |
| Trichlorofluoromethane | 0.229 | 0.100 | 0.247 | 0.100 | 0.238 | 0.100 | 0.227 | 0.100 |
| Isopropyl Alcohol | 19.0 | 2.50 | U | 2.50 | U | 2.50 | U | 2.50 |
| 1,1-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Methylene Chloride | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Trichlorotrifluoroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| MTBE | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Acetate | 0.557 | 0.100 | U | 0.100 | 0.365 | 0.100 | 0.392 | 0.100 |
| 2-Butanone | 2.19 | 0.100 | 0.295 | 0.100 | 0.361 | 0.100 | 0.292 | 0.100 |
| cis-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethyl Acetate | 0.383 | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Hexane | 0.276 | 0.100 | 0.619 | 0.100 | U | 0.100 | U | 0.100 |
| Chloroform | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Tetrahydrofuran | 1.79 | 0.100 | 0.330 | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichloroethane | 1.80 | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1,1-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Benzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Carbon Tetrachloride | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Cyclohexane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dioxane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Trichloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Heptane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| cis-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Methyl Isobutyl Ketone | 0.134 | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| trans-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Toluene | 1.04 | 0.100 | 0.278 | 0.100 | U | 0.100 | U | 0.100 |
| 2-Hexanone | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Dibromochloromethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Tetrachloroethene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Chlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethylbenzene | 0.386 | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| m&p-Xylene | 0.612 | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Bromoform | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Styrene | 1.28 | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| o-Xylene | 0.340 | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| p-Ethyltoluene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2,4-Trimethylbenzene | 0.306 | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 | U | 0.100 |
| Naphthalene | 0.344 | 0.100 | 0.186 | 0.100 | U | 0.100 | U | 0.100 |

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Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | R504011-11 | | R504011-12 | | R504011-13 | |
|---|---|---|---|---|---|---|
| Sample Number | 09915 | | 09916 | | 09909 | |
| Sample Location | Ferry | | Route 315 | | St.Thomas North of Island | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Propylene | 2.84 | 1.00 | 1.56 | 1.00 | 1.23 | 1.00 |
| Dichlorodifluoromethane | 0.506 | 0.100 | 0.468 | 0.100 | 0.502 | 0.100 |
| Chloromethane | 0.735 | 0.100 | 1.02 | 0.100 | 0.685 | 0.100 |
| Dichlorotetrafluoroethane | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Chloride | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,3-Butadiene | U | 0.100 | U | 0.100 | U | 0.100 |
| Bromomethane | U | 0.100 | U | 0.100 | U | 0.100 |
| Chloroethane | U | 0.100 | U | 0.100 | U | 0.100 |
| Acetone | 19.8 J | 2.50 | 20.0 J | 2.50 | 6.49 J | 2.50 |
| Trichlorofluoromethane | 0.225 | 0.100 | 0.226 | 0.100 | 0.234 | 0.100 |
| Isopropyl Alcohol | U | 2.50 | U | 2.50 | U | 2.50 |
| 1,1-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 |
| Methylene Chloride | U | 0.100 | 0.105 | 0.100 | U | 0.100 |
| Trichlorotrifluoroethane | U | 0.100 | U | 0.100 | U | 0.100 |
| trans-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1-Dichloroethane | U | 0.100 | U | 0.100 | U | 0.100 |
| MTBE | U | 0.100 | U | 0.100 | U | 0.100 |
| Vinyl Acetate | 0.638 | 0.100 | 0.505 | 0.100 | 0.619 | 0.100 |
| 2-Butanone | 0.351 | 0.100 | 0.909 | 0.100 | U | 0.100 |
| cis-1,2-Dichloroethene | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethyl Acetate | U | 0.100 | 0.222 | 0.100 | U | 0.100 |
| Hexane | U | 0.100 | 0.105 | 0.100 | 0.221 | 0.100 |
| Chloroform | U | 0.100 | 12.2 | 0.100 | U | 0.100 |
| Tetrahydrofuran | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichloroethane | U | 0.100 | 0.192 | 0.100 | U | 0.100 |
| 1,1,1-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 |
| Benzene | 1.03 | 0.100 | 0.115 | 0.100 | 0.436 | 0.100 |
| Carbon Tetrachloride | U | 0.100 | U | 0.100 | U | 0.100 |
| Cyclohexane | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichloropropane | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dioxane | U | 0.100 | U | 0.100 | U | 0.100 |
| Trichloroethene | U | 0.100 | U | 0.100 | U | 0.100 |
| Heptane | U | 0.100 | 0.156 | 0.100 | 0.149 | 0.100 |
| cis-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 |
| Methyl Isobutyl Ketone | U | 0.100 | 0.224 | 0.100 | U | 0.100 |
| trans-1,3-Dichloropropene | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1,2-Trichloroethane | U | 0.100 | U | 0.100 | U | 0.100 |
| Toluene | 1.53 | 0.100 | 0.243 | 0.100 | 4.50 | 0.100 |
| 2-Hexanone | U | 0.100 | U | 0.100 | U | 0.100 |
| Dibromochloromethane | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dibromoethane | U | 0.100 | U | 0.100 | U | 0.100 |
| Tetrachloroethene | U | 0.100 | U | 0.100 | U | 0.100 |
| Chlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 |
| Ethylbenzene | 0.227 | 0.100 | U | 0.100 | 0.678 | 0.100 |
| m&p-Xylene | 0.568 | 0.100 | 0.180 | 0.100 | 2.13 | 0.100 |
| Bromoform | U | 0.100 | U | 0.100 | U | 0.100 |
| Styrene | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,1,2,2-Tetrachloroethane | U | 0.100 | U | 0.100 | U | 0.100 |
| o-Xylene | 0.223 | 0.100 | U | 0.100 | 0.843 | 0.100 |
| p-Ethyltoluene | U | 0.100 | U | 0.100 | 0.140 | 0.100 |
| 1,3,5-Trimethylbenzene | U | 0.100 | U | 0.100 | 0.142 | 0.100 |
| 1,2,4-Trimethylbenzene | 0.247 | 0.100 | 0.112 | 0.100 | 0.483 | 0.100 |
| 1,3-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,4-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 |
| 1,2-Dichlorobenzene | U | 0.100 | U | 0.100 | U | 0.100 |
| Naphthalene | 0.113 | 0.100 | U | 0.100 | U | 0.100 |

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Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R505002-05 | | R505002-01 | | R505002-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Methodblank 050315-01 | | 9877 | | 9874 | | 9875 | |
| Sample Location | N/A | | Trip Blank | | Master | | Bedroom | |
| Sublocation | N/A | | Lower | | Lower | | Lower | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Bromomethane | U | 0.0200 | U | 0.0200 | 1.97 | 0.100 | 2.33 | 0.100 |

Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | R505002-02 | | R505002-04 | |
|---|---|---|---|---|
| Sample Number | 9873 | | 9876 | |
| Sample Location | Kitchen/Living Room | | Patio AA | |
| Sublocation | Lower | | Lower | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Bromomethane | 4.16 | 0.100 | U | 0.0200 |

Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R505003-02 | | R505003-01 | |
|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 051415-01 | | 09892 | | 09891 | |
| Sample Location | N/A | | Kitchen/Ceiling | | Kitchen/Wall | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Bromomethane | U | 0.0200 | 0.0878 | 0.0200 | 0.0489 | 0.0200 |

Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R505003-03 | | R505004-01 | | R505004-02 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | System Blank 051415-01 | | 09893 | | 9931 | | 9932 | |
| Sample Location | N/A | | Kitchen/Drywall | | Living room/Isolated | | Living room/Kitchen | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Bromomethane | U | 0.0200 | 1.26 | 0.100 | 0.716 | 0.0200 | 0.0740 | 0.0200 |

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Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R505005-01 | | R505005-02 | |
|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 051615-01 | | 9935 | | 9936 | |
| Sample Location | N/A | | Kitchen Cabinet | | Ambient Patio | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Bromomethane | U | 0.0200 | 9.66 | 0.0200 | U | 0.0200 |

Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R505006-06 | | R505006-02 | | R505006-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 051915-01 | | 9942 | | 9938 | | 9939 | |
| Sample Location | N/A | | Trip Blank | | Master Bedroom | | Bedroom | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Bromomethane | U | 0.0200 | U | 0.0200 | 1.23 | 0.0200 | 1.50 | 0.0200 |

Table 1.1a(cont.) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | R505006-01 | | R505006-05 | | R505006-04 | |
|---|---|---|---|---|---|---|
| Sample Number | 9937 | | 9941 | | 9940 | |
| Sample Location | Kitchen/Living room | | Dup Kitchen/Living room | | Patio AA | |
| Analyte | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv | Results ppbv | *RL* ppbv |
| Bromomethane | 1.49 | 0.0200 | 1.42 | 0.0200 | U | 0.0200 |

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Table 1.1b Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP 1814

| SERAS Sample Number | N/A | | R503006-04 | | R503006-01 | | R503006-02 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PSMethodBlank 032615-01 | | 55003 | | 55000 | | 55001 | |
| Sample Location | N/A | | Trip | | Kitchen | | Outside A/C | |
| Analyte | Results µg/m³ | *RL* µg/m³ | Results µg/m³ | *RL* µg/m³ | Results µg/m³ | *RL* µg/m³ | Results µg/m³ | *RL* µg/m³ |
| Propylene | U | 0.344 | U | 0.344 | 2.64 | 0.344 | 0.456 | 0.344 |
| Dichlorodifluoromethane | U | 0.0989 | U | 0.0989 | 1.41 | 0.0989 | 1.38 | 0.0989 |
| Chloromethane | U | 0.0413 | U | 0.0413 | 98.3 | 2.07 | 1.76 | 0.0413 |
| Dichlorotetrafluoroethane | U | 0.140 | U | 0.140 | U | 0.140 | U | 0.140 |
| Vinyl Chloride | U | 0.0511 | U | 0.0511 | U | 0.0511 | U | 0.0511 |
| 1,3-Butadiene | U | 0.0442 | U | 0.0442 | U | 0.0442 | U | 0.0442 |
| Bromomethane | U | 0.0777 | U | 0.0777 | 2900 | 3.88 | 4.06 | 0.0777 |
| Chloroethane | U | 0.0528 | U | 0.0528 | U | 0.0528 | U | 0.0528 |
| Acetone | U | 1.19 | U | 1.19 | 97.9 J | 59.4 | 5.31 | 1.19 |
| Trichlorofluoromethane | U | 0.112 | U | 0.112 | 1.21 | 0.112 | 1.34 | 0.112 |
| Isopropyl Alcohol | U | 1.23 | U | 1.23 | 20.7 | 1.23 | U | 1.23 |
| 1,1-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.0793 | U | 0.0793 |
| Methylene Chloride | U | 0.0695 | U | 0.0695 | 0.280 | 0.0695 | 0.249 | 0.0695 |
| Trichlorotrifluoroethane | U | 0.153 | U | 0.153 | 0.618 | 0.153 | 0.683 | 0.153 |
| trans-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.0793 | U | 0.0793 |
| 1,1-Dichloroethane | U | 0.0809 | U | 0.0809 | U | 0.0809 | U | 0.0809 |
| MTBE | U | 0.0721 | U | 0.0721 | U | 0.0721 | U | 0.0721 |
| Vinyl Acetate | U | 0.0704 | U | 0.0704 | U | 0.0704 | 0.607 | 0.0704 |
| 2-Butanone | U | 0.0590 | U | 0.0590 | 5.14 | 0.0590 | 0.327 | 0.0590 |
| cis-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.0793 | U | 0.0793 |
| Ethyl Acetate | U | 0.0721 | U | 0.0721 | 5.33 | 0.0721 | U | 0.0721 |
| Hexane | U | 0.0705 | U | 0.0705 | 0.228 | 0.0705 | 0.0846 | 0.0705 |
| Chloroform | U | 0.0977 | U | 0.0977 | 0.343 | 0.0977 | U | 0.0977 |
| Tetrahydrofuran | U | 0.0590 | U | 0.0590 | 4.54 | 0.0590 | U | 0.0590 |
| 1,2-Dichloroethane | U | 0.0809 | U | 0.0809 | 11.7 | 0.0809 | U | 0.0809 |
| 1,1,1-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.109 | U | 0.109 |
| Benzene | U | 0.0639 | U | 0.0639 | 0.172 | 0.0639 | 0.0969 | 0.0639 |
| Carbon Tetrachloride | U | 0.126 | U | 0.126 | 0.559 | 0.126 | 0.456 | 0.126 |
| Cyclohexane | U | 0.0688 | U | 0.0688 | 0.0836 | 0.0688 | U | 0.0688 |
| 1,2-Dichloropropane | U | 0.0924 | U | 0.0924 | 0.118 | 0.0924 | U | 0.0924 |
| 1,4-Dioxane | U | 0.0721 | U | 0.0721 | 0.171 | 0.0721 | U | 0.0721 |
| Trichloroethene | U | 0.107 | U | 0.107 | U | 0.107 | U | 0.107 |
| Heptane | U | 0.0820 | U | 0.0820 | 0.366 | 0.0820 | U | 0.0820 |
| cis-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.0908 | U | 0.0908 |
| Methyl Isobutyl Ketone | U | 0.0819 | U | 0.0819 | 0.632 | 0.0819 | U | 0.0819 |
| trans-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.0908 | U | 0.0908 |
| 1,1,2-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.109 | U | 0.109 |
| Toluene | U | 0.0754 | U | 0.0754 | 2.03 | 0.0754 | 0.159 | 0.0754 |
| 2-Hexanone | U | 0.0819 | U | 0.0819 | 0.267 | 0.0819 | U | 0.0819 |
| Dibromochloromethane | U | 0.170 | U | 0.170 | 0.284 | 0.170 | U | 0.170 |
| 1,2-Dibromoethane | U | 0.154 | U | 0.154 | U | 0.154 | U | 0.154 |
| Tetrachloroethene | U | 0.136 | U | 0.136 | U | 0.136 | U | 0.136 |
| Chlorobenzene | U | 0.0921 | U | 0.0921 | U | 0.0921 | U | 0.0921 |
| Ethylbenzene | U | 0.0868 | U | 0.0868 | 1.41 | 0.0868 | U | 0.0868 |
| m&p-Xylene | U | 0.0868 | U | 0.0868 | 1.96 | 0.0868 | U | 0.0868 |
| Bromoform | U | 0.207 | U | 0.207 | 0.806 | 0.207 | U | 0.207 |
| Styrene | U | 0.0852 | U | 0.0852 | 7.82 | 0.0852 | U | 0.0852 |
| 1,1,2,2-Tetrachloroethane | U | 0.137 | U | 0.137 | U | 0.137 | U | 0.137 |
| o-Xylene | U | 0.0868 | U | 0.0868 | 0.911 | 0.0868 | U | 0.0868 |
| p-Ethyltoluene | U | 0.0983 | U | 0.0983 | 0.301 | 0.0983 | U | 0.0983 |
| 1,3,5-Trimethylbenzene | U | 0.0983 | U | 0.0983 | 0.239 | 0.0983 | U | 0.0983 |
| 1,2,4-Trimethylbenzene | U | 0.0983 | U | 0.0983 | 0.919 | 0.0983 | U | 0.0983 |
| 1,3-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.120 |
| 1,4-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.120 |
| 1,2-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.120 |
| Naphthalene | U | 0.105 | U | 0.105 | 0.939 | 0.105 | U | 0.105 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP 1814

| SERAS Sample Number | R503006-03 | | R503006-05 | |
|---|---|---|---|---|
| Sample Number | 55002 | | 55004 | |
| Sample Location | MBR | | BR2 | |
| Analyte | Results µg/m³ | *RL* µg/m³ | Results µg/m³ | *RL* µg/m³ |
| Propylene | 6.67 | 17.2 | 2.53 | 0.344 |
| Dichlorodifluoromethane | U | 4.95 | 1.02 | 0.0989 |
| Chloromethane | 131 | 2.07 | 118 | 2.07 |
| Dichlorotetrafluoroethane | U | 6.99 | U | 0.140 |
| Vinyl Chloride | U | 2.56 | U | 0.0511 |
| 1,3-Butadiene | U | 2.21 | U | 0.0442 |
| Bromomethane | 3940 | 3.88 | 4330 | 3.88 |
| Chloroethane | U | 2.64 | U | 0.0528 |
| Acetone | 82.2 | 59.4 | 141 | 59.4 |
| Trichlorofluoromethane | U | 5.62 | 1.28 | 0.112 |
| Isopropyl Alcohol | U | 61.5 | 22.2 | 1.23 |
| 1,1-Dichloroethene | U | 3.96 | U | 0.0793 |
| Methylene Chloride | U | 3.47 | 0.273 | 0.0695 |
| Trichlorotrifluoroethane | U | 7.66 | 0.648 | 0.153 |
| trans-1,2-Dichloroethene | U | 3.96 | U | 0.0793 |
| 1,1-Dichloroethane | U | 4.05 | U | 0.0809 |
| MTBE | U | 3.61 | U | 0.0721 |
| Vinyl Acetate | U | 3.52 | U | 0.0704 |
| 2-Butanone | U | 2.95 | 5.28 | 0.0590 |
| cis-1,2-Dichloroethene | U | 3.96 | U | 0.0793 |
| Ethyl Acetate | 5.35 | 3.60 | 5.39 | 0.0721 |
| Hexane | U | 3.52 | 0.199 | 0.0705 |
| Chloroform | U | 4.88 | 0.338 | 0.0977 |
| Tetrahydrofuran | 3.87 | 2.95 | 4.78 | 0.0590 |
| 1,2-Dichloroethane | 14.8 | 4.05 | 11.9 | 0.0809 |
| 1,1,1-Trichloroethane | U | 5.46 | U | 0.109 |
| Benzene | U | 3.19 | 0.162 | 0.0639 |
| Carbon Tetrachloride | U | 6.29 | 0.515 | 0.126 |
| Cyclohexane | U | 3.44 | U | 0.0688 |
| 1,2-Dichloropropane | U | 4.62 | 0.116 | 0.0924 |
| 1,4-Dioxane | U | 3.60 | U | 0.0721 |
| Trichloroethene | U | 5.37 | U | 0.107 |
| Heptane | U | 4.10 | 0.425 | 0.0820 |
| cis-1,3-Dichloropropene | U | 4.54 | U | 0.0908 |
| Methyl Isobutyl Ketone | U | 4.10 | 0.658 | 0.0819 |
| trans-1,3-Dichloropropene | U | 4.54 | U | 0.0908 |
| 1,1,2-Trichloroethane | U | 5.46 | U | 0.109 |
| Toluene | U | 3.77 | 2.02 | 0.0754 |
| 2-Hexanone | U | 4.10 | 0.315 | 0.0819 |
| Dibromochloromethane | U | 8.52 | 0.284 | 0.170 |
| 1,2-Dibromoethane | U | 7.68 | U | 0.154 |
| Tetrachloroethene | U | 6.78 | U | 0.136 |
| Chlorobenzene | U | 4.60 | U | 0.0921 |
| Ethylbenzene | U | 4.34 | 1.46 | 0.0868 |
| m&p-Xylene | U | 4.34 | 2.02 | 0.0868 |
| Bromoform | U | 10.3 | 0.851 | 0.207 |
| Styrene | 6.80 | 4.26 | 7.77 | 0.0852 |
| 1,1,2,2-Tetrachloroethane | U | 6.87 | U | 0.137 |
| o-Xylene | U | 4.34 | 0.962 | 0.0868 |
| p-Ethyltoluene | U | 4.92 | 0.310 | 0.0983 |
| 1,3,5-Trimethylbenzene | U | 4.92 | 0.247 | 0.0983 |
| 1,2,4-Trimethylbenzene | U | 4.92 | 0.941 | 0.0983 |
| 1,3-Dichlorobenzene | U | 6.01 | U | 0.120 |
| 1,4-Dichlorobenzene | U | 6.01 | U | 0.120 |
| 1,2-Dichlorobenzene | U | 6.01 | U | 0.120 |
| Naphthalene | U | 5.24 | 0.982 | 0.105 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R504001-04 | | R504001-01 | | R504001-05 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PSMethodBlank 0401115-03 | | 55115 | | 55112 | | 55116 | |
| Sample Location | N/A | | TRIP | | Ambient | | (A) Background | |
| Analyte | Results µg/m³ | *RL* µg/m³ | Results µg/m³ | *RL* µg/m³ | Results µg/m³ | *RL* µg/m³ | Results µg/m³ | *RL* µg/m³ |
| Propylene | U | 0.344 | U | 0.344 | 0.402 | 0.344 | 2.21 | 1.72 |
| Dichlorodifluoromethane | U | 0.0989 | U | 0.0989 | 1.59 | 0.0989 | 2.62 | 0.495 |
| Chloromethane | U | 0.0413 | U | 0.0413 | 1.60 | 0.0413 | 1.82 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.140 | U | 0.140 | U | 0.140 | U | 0.699 |
| Vinyl Chloride | U | 0.0511 | U | 0.0511 | U | 0.0511 | U | 0.256 |
| 1,3-Butadiene | U | 0.0442 | U | 0.0442 | U | 0.0442 | U | 0.221 |
| Bromomethane | U | 0.0777 | U | 0.0777 | 1.98 | 0.0777 | 0.667 | 0.388 |
| Chloroethane | U | 0.0528 | U | 0.0528 | U | 0.0528 | U | 0.264 |
| Acetone | U | 1.19 | U | 1.19 | 8.63 | 1.19 | 113 | 5.94 |
| Trichlorofluoromethane | U | 0.112 | U | 0.112 | 1.29 | 0.112 | 1.23 | 0.562 |
| Isopropyl Alcohol | U | 1.23 | U | 1.23 | U | 1.23 | 16.7 | 6.15 |
| 1,1-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.0793 | U | 0.396 |
| Methylene Chloride | U | 0.0695 | U | 0.0695 | 0.179 | 0.0695 | 2.16 | 0.347 |
| Trichlorotrifluoroethane | U | 0.153 | U | 0.153 | 0.657 | 0.153 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.0793 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.0809 | U | 0.0809 | U | 0.0809 | U | 0.405 |
| MTBE | U | 0.0721 | U | 0.0721 | U | 0.0721 | U | 0.361 |
| Vinyl Acetate | U | 0.0704 | U | 0.0704 | U | 0.0704 | U | 0.352 |
| 2-Butanone | U | 0.0590 | U | 0.0590 | 0.624 | 0.0590 | 261 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.0793 | U | 0.396 |
| Ethyl Acetate | U | 0.0721 | 0.0729 | 0.0721 | U | 0.0721 | 3.04 | 0.360 |
| Hexane | U | 0.0705 | U | 0.0705 | 10.7 | 0.0705 | 3.42 | 0.352 |
| Chloroform | U | 0.0977 | U | 0.0977 | U | 0.0977 | 2.08 | 0.488 |
| Tetrahydrofuran | U | 0.0590 | U | 0.0590 | 0.202 | 0.0590 | 39.0 | 0.295 |
| 1,2-Dichloroethane | U | 0.0809 | U | 0.0809 | U | 0.0809 | 10.8 | 0.405 |
| 1,1,1-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.109 | U | 0.546 |
| Benzene | U | 0.0639 | U | 0.0639 | 0.349 | 0.0639 | 2.56 | 0.319 |
| Carbon Tetrachloride | U | 0.126 | U | 0.126 | 0.519 | 0.126 | 0.718 | 0.629 |
| Cyclohexane | U | 0.0688 | U | 0.0688 | U | 0.0688 | 0.997 | 0.344 |
| 1,2-Dichloropropane | U | 0.0924 | U | 0.0924 | U | 0.0924 | U | 0.462 |
| 1,4-Dioxane | U | 0.0721 | U | 0.0721 | U | 0.0721 | U | 0.360 |
| Trichloroethene | U | 0.107 | U | 0.107 | U | 0.107 | 0.901 | 0.537 |
| Heptane | U | 0.0820 | U | 0.0820 | 0.0934 | 0.0820 | 1.09 | 0.410 |
| cis-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.0908 | U | 0.454 |
| Methyl Isobutyl Ketone | U | 0.0819 | U | 0.0819 | U | 0.0819 | 4.80 | 0.410 |
| trans-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.0908 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.109 | U | 0.546 |
| Toluene | U | 0.0754 | 0.442 | 0.0754 | U | 0.714 | 30.5 | 0.377 |
| 2-Hexanone | U | 0.0819 | U | 0.0819 | U | 0.0819 | U | 0.410 |
| Dibromochloromethane | U | 0.170 | U | 0.170 | U | 0.170 | 1.69 | 0.852 |
| 1,2-Dibromoethane | U | 0.154 | U | 0.154 | U | 0.154 | U | 0.768 |
| Tetrachloroethene | U | 0.136 | U | 0.136 | U | 0.136 | U | 0.678 |
| Chlorobenzene | U | 0.0921 | U | 0.0921 | U | 0.0921 | U | 0.460 |
| Ethylbenzene | U | 0.0868 | U | 0.0868 | 0.122 | 0.0868 | 2.66 | 0.434 |
| m&p-Xylene | U | 0.0868 | U | 0.0868 | 0.418 | 0.0868 | 9.24 | 0.434 |
| Bromoform | U | 0.207 | U | 0.207 | U | 0.207 | 3.52 | 1.03 |
| Styrene | U | 0.0852 | U | 0.0852 | U | 0.0852 | 3.15 | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.137 | U | 0.137 | U | 0.137 | U | 0.687 |
| o-Xylene | U | 0.0868 | U | 0.0868 | 0.192 | 0.0868 | 3.45 | 0.434 |
| p-Ethyltoluene | U | 0.0983 | U | 0.0983 | U | 0.0983 | 0.832 | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.0983 | U | 0.0983 | U | 0.0983 | 0.790 | 0.492 |
| 1,2,4-Trimethylbenzene | U | 0.0983 | U | 0.0983 | 0.217 | 0.0983 | 3.29 | 0.492 |
| 1,3-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.601 |
| Naphthalene | U | 0.105 | U | 0.105 | 0.138 | 0.105 | 0.780 | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | R504001-02 | | | R504001-03 | | | R504001-06 | | | R504001-07 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number | 55113 | | | 55114 | | | 55117 | | | 55118 | | |
| Sample Location | (J) Lower Kitchen | | | (J) Lower Utility Rm | | | "I" Lower | | | "I" Upper | | |
| Analyte | Results µg/m³ | | *RL* µg/m³ | Results µg/m³ | | *RL* µg/m³ | Results µg/m³ | | *RL* µg/m³ | Results µg/m³ | | *RL* µg/m³ |
| Propylene | 2.62 | J | 1.72 | 2.64 | J | 1.72 | U | | 1.72 | U | | 1.72 |
| Dichlorodifluoromethane | 1.66 | J | 0.495 | 1.71 | J | 0.495 | 2.61 | | 0.495 | 2.91 | | 0.495 |
| Chloromethane | 58.4 | J | 0.207 | 58.1 | J | 0.207 | 1.69 | | 0.207 | 1.81 | | 0.207 |
| Dichlorotetrafluoroethane | U | | 0.699 | U | | 0.699 | U | | 0.699 | U | | 0.699 |
| Vinyl Chloride | U | | 0.256 | U | | 0.256 | U | | 0.256 | U | | 0.256 |
| 1,3-Butadiene | U | | 0.221 | U | | 0.221 | U | | 0.221 | U | | 0.221 |
| Bromomethane | 2220 | | 3.88 | 2290 | | 3.88 | U | | 0.388 | U | | 0.388 |
| Chloroethane | U | | 0.264 | U | | 0.264 | U | | 0.264 | U | | 0.264 |
| Acetone | 142 | J | 5.94 | 139 | J | 5.94 | 64.9 | | 5.94 | 49.4 | | 5.94 |
| Trichlorofluoromethane | 0.832 | J | 0.562 | 0.878 | J | 0.562 | 1.29 | | 0.562 | 1.37 | | 0.562 |
| Isopropyl Alcohol | 42.0 | J | 6.15 | 44.5 | J | 6.15 | 23.9 | | 6.15 | 13.7 | | 6.15 |
| 1,1-Dichloroethene | U | | 0.396 | U | | 0.396 | U | | 0.396 | U | | 0.396 |
| Methylene Chloride | U | | 0.347 | U | | 0.347 | U | | 0.347 | U | | 0.347 |
| Trichlorotrifluoroethane | U | | 0.766 | U | | 0.766 | U | | 0.766 | U | | 0.766 |
| trans-1,2-Dichloroethene | U | | 0.396 | U | | 0.396 | U | | 0.396 | U | | 0.396 |
| 1,1-Dichloroethane | U | | 0.405 | U | | 0.405 | U | | 0.405 | U | | 0.405 |
| MTBE | U | | 0.361 | U | | 0.361 | U | | 0.361 | U | | 0.361 |
| Vinyl Acetate | U | | 0.352 | U | | 0.352 | U | | 0.352 | 0.587 | | 0.352 |
| 2-Butanone | 5.97 | J | 0.295 | 5.96 | J | 0.295 | 3.13 | | 0.295 | 1.61 | | 0.295 |
| cis-1,2-Dichloroethene | U | | 0.396 | U | | 0.396 | U | | 0.396 | U | | 0.396 |
| Ethyl Acetate | U | | 0.360 | U | | 0.360 | U | | 0.360 | 1.63 | | 0.360 |
| Hexane | 1210 | | 3.52 | 1260 | | 3.52 | 42.5 | | 0.352 | 1.78 | | 0.352 |
| Chloroform | 0.492 | J | 0.488 | U | | 0.488 | 1.21 | | 0.488 | 0.867 | | 0.488 |
| Tetrahydrofuran | 5.18 | J | 0.295 | 5.72 | J | 0.295 | 2.29 | | 0.295 | U | | 0.295 |
| 1,2-Dichloroethane | 12.2 | J | 0.405 | 12.4 | J | 0.405 | 20.9 | | 0.405 | 3.41 | | 0.405 |
| 1,1,1-Trichloroethane | U | | 0.546 | U | | 0.546 | U | | 0.546 | U | | 0.546 |
| Benzene | U | | 0.319 | U | | 0.319 | U | | 0.319 | U | | 0.319 |
| Carbon Tetrachloride | 0.646 | | 0.629 | 0.678 | | 0.629 | U | | 0.629 | U | | 0.629 |
| Cyclohexane | 1.93 | | 0.344 | 1.92 | | 0.344 | U | | 0.344 | U | | 0.344 |
| 1,2-Dichloropropane | U | | 0.462 | U | | 0.462 | U | | 0.462 | U | | 0.462 |
| 1,4-Dioxane | U | | 0.360 | U | | 0.360 | U | | 0.360 | U | | 0.360 |
| Trichloroethene | U | | 0.537 | U | | 0.537 | U | | 0.537 | U | | 0.537 |
| Heptane | 0.640 | | 0.410 | 0.629 | | 0.410 | U | | 0.410 | U | | 0.410 |
| cis-1,3-Dichloropropene | U | | 0.454 | U | | 0.454 | U | | 0.454 | U | | 0.454 |
| Methyl Isobutyl Ketone | U | | 0.410 | U | | 0.410 | U | | 0.410 | U | | 0.410 |
| trans-1,3-Dichloropropene | U | | 0.454 | U | | 0.454 | U | | 0.454 | U | | 0.454 |
| 1,1,2-Trichloroethane | U | | 0.546 | U | | 0.546 | U | | 0.546 | U | | 0.546 |
| Toluene | 3.46 | | 0.377 | 3.43 | | 0.377 | 6.27 | | 0.377 | 2.61 | | 0.377 |
| 2-Hexanone | U | | 0.410 | U | | 0.410 | U | | 0.410 | U | | 0.410 |
| Dibromochloromethane | U | | 0.852 | U | | 0.852 | U | | 0.852 | U | | 0.852 |
| 1,2-Dibromoethane | U | | 0.768 | U | | 0.768 | U | | 0.768 | U | | 0.768 |
| Tetrachloroethene | U | | 0.678 | U | | 0.678 | U | | 0.678 | U | | 0.678 |
| Chlorobenzene | U | | 0.460 | U | | 0.460 | U | | 0.460 | U | | 0.460 |
| Ethylbenzene | 1.66 | | 0.434 | 1.81 | | 0.434 | 0.767 | | 0.434 | U | | 0.434 |
| m&p-Xylene | 3.00 | | 0.434 | 3.09 | | 0.434 | 1.91 | | 0.434 | 0.552 | | 0.434 |
| Bromoform | 1.19 | | 1.03 | 1.25 | | 1.03 | U | | 1.03 | U | | 1.03 |
| Styrene | 9.08 | | 0.426 | 8.61 | | 0.426 | 2.63 | | 0.426 | 1.29 | | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | | 0.687 | U | | 0.687 | U | | 0.687 | U | | 0.687 |
| o-Xylene | 1.63 | | 0.434 | 1.60 | | 0.434 | 0.751 | | 0.434 | U | | 0.434 |
| p-Ethyltoluene | U | | 0.492 | U | | 0.492 | U | | 0.492 | U | | 0.492 |
| 1,3,5-Trimethylbenzene | U | | 0.492 | U | | 0.492 | U | | 0.492 | U | | 0.492 |
| 1,2,4-Trimethylbenzene | 1.74 | | 0.492 | 1.74 | | 0.492 | U | | 0.492 | U | | 0.492 |
| 1,3-Dichlorobenzene | U | | 0.601 | U | | 0.601 | U | | 0.601 | U | | 0.601 |
| 1,4-Dichlorobenzene | U | | 0.601 | U | | 0.601 | U | | 0.601 | U | | 0.601 |
| 1,2-Dichlorobenzene | U | | 0.601 | U | | 0.601 | U | | 0.601 | U | | 0.601 |
| Naphthalene | 1.81 | | 0.524 | 1.71 | | 0.524 | U | | 0.524 | U | | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814



| SERAS Sample Number | N/A | | R504004-02 | | R504004-01 | | R504004-07 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS Methodblank 040915-04 | | TB-150405 | | P001-AA-U-150405-09 | | P001-IA-U-140405-05 | |
| Sample Location | N/A | | N/A | | N/A | | Upper | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Propylene | U | 0.344 | U | 0.344 | 2.11 | 0.344 | 7.77 | 1.72 |
| Dichlorodifluoromethane | U | 0.0989 | U | 0.0989 | 1.01 | 0.0989 | 2.23 | 0.495 |
| Chloromethane | U | 0.0413 | U | 0.0413 | 1.25 | 0.0413 | 9.52 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.140 | U | 0.140 | U | 0.140 | U | 0.699 |
| Vinyl Chloride | U | 0.0511 | U | 0.0511 | U | 0.0511 | U | 0.256 |
| 1,3-Butadiene | U | 0.0442 | U | 0.0442 | U | 0.0442 | U | 0.221 |
| Bromomethane | U | 0.0777 | U | 0.0777 | U | 0.0777 | 91.2 | 0.388 |
| Chloroethane | U | 0.0528 | U | 0.0528 | U | 0.0528 | U | 0.264 |
| Acetone | U | 1.19 | U | 1.19 | 17.5 | 1.19 | 133 | 5.94 |
| Trichlorofluoromethane | U | 0.112 | U | 0.112 | 0.947 | 0.112 | 1.20 | 0.562 |
| Isopropyl Alcohol | U | 1.23 | U | 1.23 | 1.53 | 1.23 | U | 6.15 |
| 1,1-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.0793 | U | 0.396 |
| Methylene Chloride | U | 0.0695 | U | 0.0695 | 0.176 | 0.0695 | 0.390 | 0.347 |
| Trichlorotrifluoroethane | U | 0.153 | U | 0.153 | 0.428 | 0.153 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.0793 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.0809 | U | 0.0809 | U | 0.0809 | U | 0.405 |
| MTBE | U | 0.0721 | U | 0.0721 | U | 0.0721 | U | 0.361 |
| Vinyl Acetate | U | 0.0704 | U | 0.0704 | U | 0.0704 | U | 0.352 |
| 2-Butanone | U | 0.0590 | U | 0.0590 | 0.446 | 0.0590 | 9.27 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.0793 | U | 0.396 |
| Ethyl Acetate | U | 0.0721 | U | 0.0721 | U | 0.0721 | 6.15 | 0.360 |
| Hexane | U | 0.0705 | U | 0.0705 | 46.0 | 0.0705 | 2.17 | 0.352 |
| Chloroform | U | 0.0977 | U | 0.0977 | U | 0.0977 | 0.525 | 0.488 |
| Tetrahydrofuran | U | 0.0590 | U | 0.0590 | U | 0.0590 | 4.14 | 0.295 |
| 1,2-Dichloroethane | U | 0.0809 | U | 0.0809 | 0.110 | 0.0809 | 51.9 | 0.405 |
| 1,1,1-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.109 | U | 0.546 |
| Benzene | U | 0.0639 | U | 0.0639 | 1.51 | 0.0639 | 0.366 | 0.319 |
| Carbon Tetrachloride | U | 0.126 | U | 0.126 | 0.336 | 0.126 | U | 0.629 |
| Cyclohexane | U | 0.0688 | U | 0.0688 | 0.495 | 0.0688 | U | 0.344 |
| 1,2-Dichloropropane | U | 0.0924 | U | 0.0924 | U | 0.0924 | U | 0.462 |
| 1,4-Dioxane | U | 0.0721 | U | 0.0721 | U | 0.0721 | U | 0.360 |
| Trichloroethene | U | 0.107 | U | 0.107 | U | 0.107 | U | 0.537 |
| Heptane | U | 0.0820 | U | 0.0820 | 0.789 | 0.0820 | 0.884 | 0.410 |
| cis-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.0908 | U | 0.454 |
| Methyl Isobutyl Ketone | U | 0.0819 | U | 0.0819 | 0.106 | 0.0819 | 0.823 | 0.410 |
| trans-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.0908 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.109 | U | 0.546 |
| Toluene | U | 0.0754 | U | 0.0754 | 5.75 | 0.0754 | 5.28 | 0.377 |
| 2-Hexanone | U | 0.0819 | U | 0.0819 | U | 0.0819 | 0.506 | 0.410 |
| Dibromochloromethane | U | 0.170 | U | 0.170 | U | 0.170 | U | 0.852 |
| 1,2-Dibromoethane | U | 0.154 | U | 0.154 | U | 0.154 | U | 0.768 |
| Tetrachloroethene | U | 0.136 | U | 0.136 | U | 0.136 | U | 0.678 |
| Chlorobenzene | U | 0.0921 | U | 0.0921 | U | 0.0921 | U | 0.460 |
| Ethylbenzene | U | 0.0868 | U | 0.0868 | 1.20 | 0.0868 | 4.33 | 0.434 |
| m&p-Xylene | U | 0.0868 | U | 0.0868 | 3.91 | 0.0868 | 4.79 | 0.434 |
| Bromoform | U | 0.207 | U | 0.207 | U | 0.207 | U | 1.03 |
| Styrene | U | 0.0852 | U | 0.0852 | 0.192 | 0.0852 | 16.1 | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.137 | U | 0.137 | U | 0.137 | U | 0.687 |
| o-Xylene | U | 0.0868 | U | 0.0868 | 1.46 | 0.0868 | 2.25 | 0.434 |
| p-Ethyltoluene | U | 0.0983 | U | 0.0983 | 0.368 | 0.0983 | U | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.0983 | U | 0.0983 | 0.400 | 0.0983 | U | 0.492 |
| 1,2,4-Trimethylbenzene | U | 0.0983 | U | 0.0983 | 1.35 | 0.0983 | 0.817 | 0.492 |
| 1,3-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.120 | U | 0.601 |
| Naphthalene | U | 0.105 | U | 0.105 | 0.275 | 0.105 | 0.866 | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814



| SERAS Sample Number | R504004-08 | | R504004-09 | | R504004-10 | | R504004-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | P001-IA-U-140405-06 | | P001-IA-U-140405-07 | | P001-IA-U-140405-08 | | P001-IA-L-140405-01 | |
| Sample Location | Upper | | Upper | | Upper | | Lower | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Propylene | 7.83 | 1.72 | 10.6 | 1.72 | 8.41 | 1.72 | 2.54 | 1.72 |
| Dichlorodifluoromethane | 2.19 | 0.495 | 2.21 | 0.495 | 2.08 | 0.495 | 1.99 | 0.495 |
| Chloromethane | 8.96 | 0.207 | 8.90 | 0.207 | 8.70 | 0.207 | 17.5 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.699 | U | 0.699 | U | 0.699 | U | 0.699 |
| Vinyl Chloride | U | 0.256 | U | 0.256 | U | 0.256 | U | 0.256 |
| 1,3-Butadiene | U | 0.221 | U | 0.221 | U | 0.221 | U | 0.221 |
| Bromomethane | 87.4 | 0.388 | 87.6 | 0.388 | 84.7 | 0.388 | 330 | 0.388 |
| Chloroethane | U | 0.264 | U | 0.264 | U | 0.264 | U | 0.264 |
| Acetone | 154 | 5.94 | 139 | 5.94 | 139 | 5.94 | 220 | 5.94 |
| Trichlorofluoromethane | 1.12 | 0.562 | 1.18 | 0.562 | 1.09 | 0.562 | 1.11 | 0.562 |
| Isopropyl Alcohol | U | 6.15 | U | 6.15 | U | 6.15 | 19.5 | 6.15 |
| 1,1-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 | U | 0.396 |
| Methylene Chloride | 0.418 | 0.347 | 0.424 | 0.347 | U | 0.347 | U | 0.347 |
| Trichlorotrifluoroethane | U | 0.766 | U | 0.766 | U | 0.766 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.405 | U | 0.405 | U | 0.405 | U | 0.405 |
| MTBE | U | 0.361 | U | 0.361 | U | 0.361 | U | 0.361 |
| Vinyl Acetate | U | 0.352 | U | 0.352 | U | 0.352 | U | 0.352 |
| 2-Butanone | 8.80 | 0.295 | 8.71 | 0.295 | 9.52 | 0.295 | 9.20 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 | U | 0.396 |
| Ethyl Acetate | 6.01 | 0.360 | 6.29 | 0.360 | 6.34 | 0.360 | 3.02 | 0.360 |
| Hexane | 2.52 | 0.352 | 3.85 | 0.352 | 2.69 | 0.352 | 2.83 | 0.352 |
| Chloroform | 0.519 | 0.488 | 0.525 | 0.488 | 0.530 | 0.488 | 0.516 | 0.488 |
| Tetrahydrofuran | 4.01 | 0.295 | 3.90 | 0.295 | 5.20 | 0.295 | 6.82 | 0.295 |
| 1,2-Dichloroethane | 43.4 | 0.405 | 49.8 | 0.405 | 44.5 | 0.405 | 4.52 | 0.405 |
| 1,1,1-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.546 | U | 0.546 |
| Benzene | 0.475 | 0.319 | 0.325 | 0.319 | 0.353 | 0.319 | U | 0.319 |
| Carbon Tetrachloride | U | 0.629 | U | 0.629 | U | 0.629 | U | 0.629 |
| Cyclohexane | U | 0.344 | U | 0.344 | U | 0.344 | U | 0.344 |
| 1,2-Dichloropropane | U | 0.462 | U | 0.462 | U | 0.462 | U | 0.462 |
| 1,4-Dioxane | U | 0.360 | U | 0.360 | U | 0.360 | U | 0.360 |
| Trichloroethene | U | 0.537 | U | 0.537 | U | 0.537 | U | 0.537 |
| Heptane | 0.821 | 0.410 | 0.908 | 0.410 | 0.865 | 0.410 | 0.727 | 0.410 |
| cis-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.454 | U | 0.454 |
| Methyl Isobutyl Ketone | 0.734 | 0.410 | 0.610 | 0.410 | 1.11 | 0.410 | 0.693 | 0.410 |
| trans-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.454 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.546 | U | 0.546 |
| Toluene | 5.32 | 0.377 | 5.25 | 0.377 | 5.13 | 0.377 | 4.40 | 0.377 |
| 2-Hexanone | 0.530 | 0.410 | 0.456 | 0.410 | 0.459 | 0.410 | U | 0.410 |
| Dibromochloromethane | U | 0.852 | U | 0.852 | U | 0.852 | U | 0.852 |
| 1,2-Dibromoethane | U | 0.768 | U | 0.768 | U | 0.768 | U | 0.768 |
| Tetrachloroethene | U | 0.678 | U | 0.678 | U | 0.678 | U | 0.678 |
| Chlorobenzene | U | 0.460 | U | 0.460 | U | 0.460 | U | 0.460 |
| Ethylbenzene | 4.12 | 0.434 | 4.19 | 0.434 | 4.03 | 0.434 | 2.20 | 0.434 |
| m&p-Xylene | 4.49 | 0.434 | 4.31 | 0.434 | 4.41 | 0.434 | 4.56 | 0.434 |
| Bromoform | U | 1.03 | U | 1.03 | U | 1.03 | U | 1.03 |
| Styrene | 15.8 | 0.426 | 17.9 | 0.426 | 16.1 | 0.426 | 5.13 | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.687 | U | 0.687 | U | 0.687 | U | 0.687 |
| o-Xylene | 2.09 | 0.434 | 2.02 | 0.434 | 2.06 | 0.434 | 2.69 | 0.434 |
| p-Ethyltoluene | U | 0.492 | U | 0.492 | U | 0.492 | U | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.492 | U | 0.492 | U | 0.492 | 0.497 | 0.492 |
| 1,2,4-Trimethylbenzene | 0.792 | 0.492 | 0.788 | 0.492 | 0.771 | 0.492 | 2.25 | 0.492 |
| 1,3-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 | U | 0.601 |
| Naphthalene | 0.815 | 0.524 | 0.659 | 0.524 | 0.688 | 0.524 | 1.56 | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814



| SERAS Sample Number | R504004-04 | | R504004-05 | | N/A | | R504004-06 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | P001-IA-L-140405-02 | | P001-IA-L-140405-03 | | Methodblank 041015-01 | | P001-IA-L-140405-04 | |
| Sample Location | Lower | | Lower | | N/A | | Lower | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Propylene | 2.42 | 1.72 | 2.51 | 1.72 | U | 0.344 | 2.75 | 1.72 |
| Dichlorodifluoromethane | 1.92 | 0.495 | 1.98 | 0.495 | U | 0.0989 | 2.50 | 0.495 |
| Chloromethane | 17.3 | 0.207 | 18.3 | 0.207 | U | 0.0413 | 20.9 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.699 | U | 0.699 | U | 0.140 | U | 0.699 |
| Vinyl Chloride | U | 0.256 | U | 0.256 | U | 0.0511 | U | 0.256 |
| 1,3-Butadiene | U | 0.221 | U | 0.221 | U | 0.0442 | U | 0.221 |
| Bromomethane | 318 | 0.388 | 340 | 0.388 | U | 0.0777 | 404 | 0.388 |
| Chloroethane | U | 0.264 | U | 0.264 | U | 0.0528 | U | 0.264 |
| Acetone | 285 | 5.94 | 235 | 5.94 | U | 1.19 | 276 | 5.94 |
| Trichlorofluoromethane | 1.05 | 0.562 | 1.11 | 0.562 | U | 0.112 | 1.31 | 0.562 |
| Isopropyl Alcohol | 16.6 | 6.15 | 25.0 | 6.15 | U | 1.23 | 73.3 | 6.15 |
| 1,1-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.0793 | U | 0.396 |
| Methylene Chloride | U | 0.347 | U | 0.347 | U | 0.0695 | 0.380 | 0.347 |
| Trichlorotrifluoroethane | U | 0.766 | U | 0.766 | U | 0.153 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.0793 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.405 | U | 0.405 | U | 0.0809 | U | 0.405 |
| MTBE | U | 0.361 | U | 0.361 | U | 0.0721 | U | 0.361 |
| Vinyl Acetate | U | 0.352 | U | 0.352 | U | 0.0704 | 3.54 | 0.352 |
| 2-Butanone | 9.14 | 0.295 | 9.37 | 0.295 | U | 0.0590 | 10.8 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.0793 | U | 0.396 |
| Ethyl Acetate | 2.92 | 0.360 | 2.98 | 0.360 | U | 0.0721 | 3.49 | 0.360 |
| Hexane | 2.63 | 0.352 | 2.74 | 0.352 | U | 0.0705 | 3.26 | 0.352 |
| Chloroform | 0.505 | 0.488 | 0.550 | 0.488 | U | 0.0977 | 0.640 | 0.488 |
| Tetrahydrofuran | 6.92 | 0.295 | 7.61 | 0.295 | U | 0.0590 | 9.08 | 0.295 |
| 1,2-Dichloroethane | 4.31 | 0.405 | 4.53 | 0.405 | U | 0.0809 | 5.29 | 0.405 |
| 1,1,1-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.109 | U | 0.546 |
| Benzene | U | 0.319 | 0.476 | 0.319 | U | 0.0639 | U | 0.319 |
| Carbon Tetrachloride | U | 0.629 | U | 0.629 | U | 0.126 | U | 0.629 |
| Cyclohexane | U | 0.344 | U | 0.344 | U | 0.0688 | U | 0.344 |
| 1,2-Dichloropropane | U | 0.462 | U | 0.462 | U | 0.0924 | U | 0.462 |
| 1,4-Dioxane | U | 0.360 | U | 0.360 | U | 0.0721 | U | 0.360 |
| Trichloroethene | U | 0.537 | U | 0.537 | U | 0.107 | U | 0.537 |
| Heptane | 0.703 | 0.410 | 0.681 | 0.410 | U | 0.0820 | 0.860 | 0.410 |
| cis-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.0908 | U | 0.454 |
| Methyl Isobutyl Ketone | 0.744 | 0.410 | 0.886 | 0.410 | U | 0.0819 | 0.982 | 0.410 |
| trans-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.0908 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.109 | U | 0.546 |
| Toluene | 4.35 | 0.377 | 4.58 | 0.377 | U | 0.0754 | 5.01 | 0.377 |
| 2-Hexanone | 0.443 | 0.410 | 0.533 | 0.410 | U | 0.0819 | 0.550 | 0.410 |
| Dibromochloromethane | U | 0.852 | U | 0.852 | U | 0.170 | U | 0.852 |
| 1,2-Dibromoethane | U | 0.768 | U | 0.768 | U | 0.154 | U | 0.768 |
| Tetrachloroethene | U | 0.678 | U | 0.678 | U | 0.136 | U | 0.678 |
| Chlorobenzene | U | 0.460 | U | 0.460 | U | 0.0921 | U | 0.460 |
| Ethylbenzene | 2.17 | 0.434 | 2.18 | 0.434 | U | 0.0868 | 2.52 | 0.434 |
| m&p-Xylene | 4.56 | 0.434 | 4.49 | 0.434 | U | 0.0868 | 5.19 | 0.434 |
| Bromoform | U | 1.03 | U | 1.03 | U | 0.207 | U | 1.03 |
| Styrene | 5.28 | 0.426 | 5.51 | 0.426 | U | 0.0852 | 6.37 | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.687 | U | 0.687 | U | 0.137 | U | 0.687 |
| o-Xylene | 2.67 | 0.434 | 2.60 | 0.434 | U | 0.0868 | 3.08 | 0.434 |
| p-Ethyltoluene | U | 0.492 | U | 0.492 | U | 0.0983 | 0.556 | 0.492 |
| 1,3,5-Trimethylbenzene | 0.514 | 0.492 | U | 0.492 | U | 0.0983 | 0.583 | 0.492 |
| 1,2,4-Trimethylbenzene | 2.33 | 0.492 | 2.19 | 0.492 | U | 0.0983 | 2.61 | 0.492 |
| 1,3-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.120 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.120 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.120 | U | 0.601 |
| Naphthalene | 1.66 | 0.524 | 1.70 | 0.524 | U | 0.105 | 1.91 | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814



| SERAS Sample Number | N/A | | R504007-01 | | R504007-02 | |
|---|---|---|---|---|---|---|
| Sample Number | Methodblank 041615-01 | | 09821 | | 09822 | |
| Sample Location | N/A | | Kitchen/upper | | Kitchen/lower | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Propylene | U | 0.344 | U | 1.72 | U | 1.72 |
| Dichlorodifluoromethane | U | 0.0989 | 2.59 | 0.495 | 2.38 | 0.495 |
| Chloromethane | U | 0.0413 | 1.65 | 0.207 | 1.46 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.140 | U | 0.699 | U | 0.699 |
| Vinyl Chloride | U | 0.0511 | U | 0.256 | U | 0.256 |
| 1,3-Butadiene | U | 0.0442 | U | 0.221 | U | 0.221 |
| Bromomethane | U | 0.0777 | 0.921 | 0.388 | 1.77 | 0.388 |
| Chloroethane | U | 0.0528 | U | 0.264 | U | 0.264 |
| Acetone | U | 1.19 | 26.5 J | 5.94 | 24.9 J | 5.94 |
| Trichlorofluoromethane | U | 0.112 | 1.46 | 0.562 | 1.31 | 0.562 |
| Isopropyl Alcohol | U | 1.23 | 3.56 | 6.15 | 9.63 | 6.15 |
| 1,1-Dichloroethene | U | 0.0793 | U | 0.396 | U | 0.396 |
| Methylene Chloride | U | 0.0695 | U | 0.347 | U | 0.347 |
| Trichlorotrifluoroethane | U | 0.153 | U | 0.766 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.0793 | U | 0.396 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.0809 | U | 0.405 | U | 0.405 |
| MTBE | U | 0.0721 | U | 0.361 | U | 0.361 |
| Vinyl Acetate | U | 0.0704 | U | 0.352 | U | 0.352 |
| 2-Butanone | U | 0.0590 | 0.994 | 0.295 | 1.20 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.0793 | U | 0.396 | U | 0.396 |
| Ethyl Acetate | U | 0.0721 | U | 0.360 | U | 0.360 |
| Hexane | U | 0.0705 | U | 0.352 | U | 0.352 |
| Chloroform | U | 0.0977 | U | 0.488 | U | 0.488 |
| Tetrahydrofuran | U | 0.0590 | U | 0.295 | 0.710 | 0.295 |
| 1,2-Dichloroethane | U | 0.0809 | 2.49 | 0.405 | 1.89 | 0.405 |
| 1,1,1-Trichloroethane | U | 0.109 | U | 0.546 | U | 0.546 |
| Benzene | U | 0.0639 | U | 0.319 | U | 0.319 |
| Carbon Tetrachloride | U | 0.126 | U | 0.629 | U | 0.629 |
| Cyclohexane | U | 0.0688 | U | 0.344 | U | 0.344 |
| 1,2-Dichloropropane | U | 0.0924 | U | 0.462 | U | 0.462 |
| 1,4-Dioxane | U | 0.0721 | U | 0.360 | U | 0.360 |
| Trichloroethene | U | 0.107 | U | 0.537 | U | 0.537 |
| Heptane | U | 0.0820 | U | 0.410 | U | 0.410 |
| cis-1,3-Dichloropropene | U | 0.0908 | U | 0.454 | U | 0.454 |
| Methyl Isobutyl Ketone | U | 0.0819 | U | 0.410 | U | 0.410 |
| trans-1,3-Dichloropropene | U | 0.0908 | U | 0.454 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.109 | U | 0.546 | U | 0.546 |
| Toluene | U | 0.0754 | 0.601 | 0.377 | 0.506 | 0.377 |
| 2-Hexanone | U | 0.0819 | U | 0.410 | U | 0.410 |
| Dibromochloromethane | U | 0.170 | U | 0.852 | U | 0.852 |
| 1,2-Dibromoethane | U | 0.154 | U | 0.768 | U | 0.768 |
| Tetrachloroethene | U | 0.136 | U | 0.678 | U | 0.678 |
| Chlorobenzene | U | 0.0921 | U | 0.460 | U | 0.460 |
| Ethylbenzene | U | 0.0868 | 1.60 | 0.434 | 1.46 | 0.434 |
| m&p-Xylene | U | 0.0868 | 1.48 | 0.434 | 1.45 | 0.434 |
| Bromoform | U | 0.207 | U | 1.03 | U | 1.03 |
| Styrene | U | 0.0852 | 1.37 | 0.426 | 1.54 | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.137 | U | 0.687 | U | 0.687 |
| o-Xylene | U | 0.0868 | 0.764 | 0.434 | 0.827 | 0.434 |
| p-Ethyltoluene | U | 0.0983 | U | 0.492 | U | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.0983 | U | 0.492 | U | 0.492 |
| 1,2,4-Trimethylbenzene | U | 0.0983 | U | 0.492 | U | 0.492 |
| 1,3-Dichlorobenzene | U | 0.120 | U | 0.601 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.120 | U | 0.601 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.120 | U | 0.601 | U | 0.601 |
| Naphthalene | U | 0.105 | U | 0.524 | 0.839 | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R504010-04 | | R504010-01 | | R504010-02 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Methodblank 042015-02 | | 09840 | | 09837 | | 09838 | |
| Sample Location | N/A | | Trip Blank | | Up J-Kitchen | | Low J-Kitchen | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Propylene | U | 0.344 | U | 0.344 | U | 1.72 | U | 1.72 |
| Dichlorodifluoromethane | U | 0.0989 | U | 0.0989 | 2.39 | 0.495 | 2.22 | 0.495 |
| Chloromethane | U | 0.0413 | U | 0.0413 | 1.75 | 0.207 | 2.07 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.140 | U | 0.140 | U | 0.699 | U | 0.699 |
| Vinyl Chloride | U | 0.0511 | U | 0.0511 | U | 0.256 | U | 0.256 |
| 1,3-Butadiene | U | 0.0442 | U | 0.0442 | U | 0.221 | U | 0.221 |
| Bromomethane | U | 0.0777 | U | 0.0777 | 1.23 | 0.388 | 12.6 | 0.388 |
| Chloroethane | U | 0.0528 | U | 0.0528 | U | 0.264 | U | 0.264 |
| Acetone | U | 1.19 | U | 1.19 | 25.9 | 5.94 | 47.2 | 5.94 |
| Trichlorofluoromethane | U | 0.112 | U | 0.112 | 1.27 | 0.562 | 1.20 | 0.562 |
| Isopropyl Alcohol | U | 1.23 | U | 1.23 | U | 6.15 | 19.4 | 6.15 |
| 1,1-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.396 | U | 0.396 |
| Methylene Chloride | U | 0.0695 | U | 0.0695 | U | 0.347 | U | 0.347 |
| Trichlorotrifluoroethane | U | 0.153 | U | 0.153 | U | 0.766 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.396 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.0809 | U | 0.0809 | U | 0.405 | U | 0.405 |
| MTBE | U | 0.0721 | U | 0.0721 | U | 0.361 | U | 0.361 |
| Vinyl Acetate | U | 0.0704 | U | 0.0704 | U | 0.352 | 1.33 | 0.352 |
| 2-Butanone | U | 0.0590 | U | 0.0590 | 0.955 | 0.295 | 2.93 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.396 | U | 0.396 |
| Ethyl Acetate | U | 0.0721 | U | 0.0721 | 0.433 | 0.360 | 0.550 | 0.360 |
| Hexane | U | 0.0705 | U | 0.0705 | U | 0.352 | U | 0.352 |
| Chloroform | U | 0.0977 | U | 0.0977 | U | 0.488 | U | 0.488 |
| Tetrahydrofuran | U | 0.0590 | U | 0.0590 | U | 0.295 | 2.13 | 0.295 |
| 1,2-Dichloroethane | U | 0.0809 | U | 0.0809 | 5.99 | 0.405 | 4.86 | 0.405 |
| 1,1,1-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.546 | U | 0.546 |
| Benzene | U | 0.0639 | U | 0.0639 | U | 0.319 | U | 0.319 |
| Carbon Tetrachloride | U | 0.126 | U | 0.126 | U | 0.629 | U | 0.629 |
| Cyclohexane | U | 0.0688 | U | 0.0688 | U | 0.344 | U | 0.344 |
| 1,2-Dichloropropane | U | 0.0924 | U | 0.0924 | U | 0.462 | U | 0.462 |
| 1,4-Dioxane | U | 0.0721 | U | 0.0721 | U | 0.360 | U | 0.360 |
| Trichloroethene | U | 0.107 | U | 0.107 | U | 0.537 | U | 0.537 |
| Heptane | U | 0.0820 | U | 0.0820 | U | 0.410 | U | 0.410 |
| cis-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.454 | U | 0.454 |
| Methyl Isobutyl Ketone | U | 0.0819 | U | 0.0819 | U | 0.410 | U | 0.410 |
| trans-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.454 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.546 | U | 0.546 |
| Toluene | U | 0.0754 | U | 0.0754 | 1.00 | 0.377 | 1.73 | 0.377 |
| 2-Hexanone | U | 0.0819 | U | 0.0819 | U | 0.410 | U | 0.410 |
| Dibromochloromethane | U | 0.170 | U | 0.170 | U | 0.852 | U | 0.852 |
| 1,2-Dibromoethane | U | 0.154 | U | 0.154 | U | 0.768 | U | 0.768 |
| Tetrachloroethene | U | 0.136 | U | 0.136 | U | 0.678 | U | 0.678 |
| Chlorobenzene | U | 0.0921 | U | 0.0921 | U | 0.460 | U | 0.460 |
| Ethylbenzene | U | 0.0868 | U | 0.0868 | 0.896 | 0.434 | 1.01 | 0.434 |
| m&p-Xylene | U | 0.0868 | U | 0.0868 | 1.13 | 0.434 | 1.35 | 0.434 |
| Bromoform | U | 0.207 | U | 0.207 | U | 1.03 | U | 1.03 |
| Styrene | U | 0.0852 | U | 0.0852 | 3.09 | 0.426 | 2.82 | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.137 | U | 0.137 | U | 0.687 | U | 0.687 |
| o-Xylene | U | 0.0868 | U | 0.0868 | 0.551 | 0.434 | 0.755 | 0.434 |
| p-Ethyltoluene | U | 0.0983 | U | 0.0983 | U | 0.492 | U | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.0983 | U | 0.0983 | U | 0.492 | U | 0.492 |
| 1,2,4-Trimethylbenzene | U | 0.0983 | U | 0.0983 | U | 0.492 | 0.534 | 0.492 |
| 1,3-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.601 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.601 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.601 | U | 0.601 |
| Naphthalene | U | 0.105 | U | 0.105 | U | 0.524 | 0.773 | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814



| | |
|---|---|
| SERAS Sample Number | R504010-03 |
| Sample Number | 09839 |
| Sample Location | Low J-Bag |

| Analyte | Results µg/m3 | *RL* µg/m3 |
|---|---|---|
| Propylene | U | 1.72 |
| Dichlorodifluoromethane | 2.35 | 0.495 |
| Chloromethane | 11.6 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.699 |
| Vinyl Chloride | U | 0.256 |
| 1,3-Butadiene | U | 0.221 |
| Bromomethane | 13.1 | 0.388 |
| Chloroethane | 0.389 | 0.264 |
| Acetone | 163 | 5.94 |
| Trichlorofluoromethane | 1.26 | 0.562 |
| Isopropyl Alcohol | 14.1 | 6.15 |
| 1,1-Dichloroethene | U | 0.396 |
| Methylene Chloride | 0.362 | 0.347 |
| Trichlorotrifluoroethane | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.396 |
| 1,1-Dichloroethane | U | 0.405 |
| MTBE | U | 0.361 |
| Vinyl Acetate | 2.52 | 0.352 |
| 2-Butanone | 8.02 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.396 |
| Ethyl Acetate | 1.75 | 0.360 |
| Hexane | 1.20 | 0.352 |
| Chloroform | 0.629 | 0.488 |
| Tetrahydrofuran | 1.68 | 0.295 |
| 1,2-Dichloroethane | 1.79 | 0.405 |
| 1,1,1-Trichloroethane | U | 0.546 |
| Benzene | U | 0.319 |
| Carbon Tetrachloride | U | 0.629 |
| Cyclohexane | 15.5 | 0.344 |
| 1,2-Dichloropropane | U | 0.462 |
| 1,4-Dioxane | U | 0.360 |
| Trichloroethene | U | 0.537 |
| Heptane | 0.583 | 0.410 |
| cis-1,3-Dichloropropene | U | 0.454 |
| Methyl Isobutyl Ketone | 0.435 | 0.410 |
| trans-1,3-Dichloropropene | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.546 |
| Toluene | 2.82 | 0.377 |
| 2-Hexanone | U | 0.410 |
| Dibromochloromethane | U | 0.852 |
| 1,2-Dibromoethane | U | 0.768 |
| Tetrachloroethene | U | 0.678 |
| Chlorobenzene | U | 0.460 |
| Ethylbenzene | 0.439 | 0.434 |
| m&p-Xylene | 0.722 | 0.434 |
| Bromoform | U | 1.03 |
| Styrene | 1.08 | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.687 |
| o-Xylene | U | 0.434 |
| p-Ethyltoluene | U | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.492 |
| 1,2,4-Trimethylbenzene | U | 0.492 |
| 1,3-Dichlorobenzene | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.601 |
| Naphthalene | 0.682 | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R504011-14 | | R504011-03 | | R504011-05 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Methodblank 042115-02 | | 09911 | | 09907 | | 09904 | |
| Sample Location | N/A | | Trip Blank | | Kitchen/Upper J | | Kitchen/Lower J | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Propylene | U | 0.344 | U | 0.344 | 4.11 | 1.72 | 1.90 | 1.72 |
| Dichlorodifluoromethane | U | 0.0989 | U | 0.0989 | 2.60 | 0.495 | 2.36 | 0.495 |
| Chloromethane | U | 0.0413 | U | 0.0413 | 2.57 | 0.207 | 3.61 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.140 | U | 0.140 | U | 0.699 | U | 0.699 |
| Vinyl Chloride | U | 0.0511 | U | 0.0511 | U | 0.256 | U | 0.256 |
| 1,3-Butadiene | U | 0.0442 | U | 0.0442 | U | 0.221 | U | 0.221 |
| Bromomethane | U | 0.0777 | U | 0.0777 | 4.05 | 0.388 | 41.1 | 0.388 |
| Chloroethane | U | 0.0528 | U | 0.0528 | U | 0.264 | U | 0.264 |
| Acetone | U | 1.19 | U | 1.19 | 55.2 J | 5.94 | 93.9 J | 5.94 |
| Trichlorofluoromethane | U | 0.112 | U | 0.112 | 1.64 | 0.562 | 1.33 | 0.562 |
| Isopropyl Alcohol | U | 1.23 | U | 1.23 | U | 6.15 | 46.7 | 6.15 |
| 1,1-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.396 | U | 0.396 |
| Methylene Chloride | U | 0.0695 | U | 0.0695 | 0.371 | 0.347 | 0.352 | 0.347 |
| Trichlorotrifluoroethane | U | 0.153 | U | 0.153 | U | 0.766 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.396 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.0809 | U | 0.0809 | U | 0.405 | U | 0.405 |
| MTBE | U | 0.0721 | U | 0.0721 | U | 0.361 | U | 0.361 |
| Vinyl Acetate | U | 0.0704 | U | 0.0704 | U | 0.352 | 2.29 | 0.352 |
| 2-Butanone | U | 0.0590 | U | 0.0590 | 3.82 | 0.295 | 7.02 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.0793 | U | 0.0793 | U | 0.396 | U | 0.396 |
| Ethyl Acetate | U | 0.0721 | U | 0.0721 | 1.50 | 0.360 | 2.35 | 0.360 |
| Hexane | U | 0.0705 | U | 0.0705 | 0.918 | 0.352 | 3.86 | 0.352 |
| Chloroform | U | 0.0977 | U | 0.0977 | U | 0.488 | U | 0.488 |
| Tetrahydrofuran | U | 0.0590 | 0.0673 | 0.0590 | 1.80 | 0.295 | 6.93 | 0.295 |
| 1,2-Dichloroethane | U | 0.0809 | U | 0.0809 | 27.3 | 0.405 | 7.29 | 0.405 |
| 1,1,1-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.546 | U | 0.546 |
| Benzene | U | 0.0639 | U | 0.0639 | U | 0.319 | U | 0.319 |
| Carbon Tetrachloride | U | 0.126 | U | 0.126 | U | 0.629 | U | 0.629 |
| Cyclohexane | U | 0.0688 | U | 0.0688 | U | 0.344 | U | 0.344 |
| 1,2-Dichloropropane | U | 0.0924 | U | 0.0924 | U | 0.462 | U | 0.462 |
| 1,4-Dioxane | U | 0.0721 | U | 0.0721 | U | 0.360 | U | 0.360 |
| Trichloroethene | U | 0.107 | U | 0.107 | U | 0.537 | U | 0.537 |
| Heptane | U | 0.0820 | U | 0.0820 | 0.452 | 0.410 | 0.454 | 0.410 |
| cis-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.454 | U | 0.454 |
| Methyl Isobutyl Ketone | U | 0.0819 | U | 0.0819 | 0.907 | 0.410 | 0.570 | 0.410 |
| trans-1,3-Dichloropropene | U | 0.0908 | U | 0.0908 | U | 0.454 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.109 | U | 0.109 | U | 0.546 | U | 0.546 |
| Toluene | U | 0.0754 | U | 0.0754 | 3.07 | 0.377 | 4.64 | 0.377 |
| 2-Hexanone | U | 0.0819 | U | 0.0819 | U | 0.410 | U | 0.410 |
| Dibromochloromethane | U | 0.170 | U | 0.170 | U | 0.852 | U | 0.852 |
| 1,2-Dibromoethane | U | 0.154 | U | 0.154 | U | 0.768 | U | 0.768 |
| Tetrachloroethene | U | 0.136 | U | 0.136 | U | 0.678 | U | 0.678 |
| Chlorobenzene | U | 0.0921 | U | 0.0921 | U | 0.460 | U | 0.460 |
| Ethylbenzene | U | 0.0868 | U | 0.0868 | 2.92 | 0.434 | 1.64 | 0.434 |
| m&p-Xylene | U | 0.0868 | U | 0.0868 | 3.23 | 0.434 | 2.77 | 0.434 |
| Bromoform | U | 0.207 | U | 0.207 | U | 1.03 | U | 1.03 |
| Styrene | U | 0.0852 | U | 0.0852 | 12.7 | 0.426 | 5.59 | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.137 | U | 0.137 | U | 0.687 | U | 0.687 |
| o-Xylene | U | 0.0868 | U | 0.0868 | 1.67 | 0.434 | 1.49 | 0.434 |
| p-Ethyltoluene | U | 0.0983 | U | 0.0983 | U | 0.492 | 0.532 | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.0983 | U | 0.0983 | U | 0.492 | U | 0.492 |
| 1,2,4-Trimethylbenzene | U | 0.0983 | U | 0.0983 | 0.579 | 0.492 | 1.40 | 0.492 |
| 1,3-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.601 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.601 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.120 | U | 0.120 | U | 0.601 | U | 0.601 |
| Naphthalene | U | 0.105 | U | 0.105 | 0.566 | 0.524 | 1.56 | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | R504011-01 | | R504011-02 | | R504011-04 | | R504011-06 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 09910 | | 09903 | | 09902 | | 09905 | |
| Sample Location | BR1/Upper J | | BR2/Upper J | | Master/Upper J | | Master/Lower J | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Propylene | 2.59 | 1.72 | 2.93 | 1.72 | 7.11 | 1.72 | 1.89 | 1.72 |
| Dichlorodifluoromethane | 1.99 | 0.495 | 2.24 | 0.495 | 2.25 | 0.495 | 2.23 | 0.495 |
| Chloromethane | 2.25 | 0.207 | 2.32 | 0.207 | 2.46 | 0.207 | 3.35 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.699 | U | 0.699 | U | 0.699 | U | 0.699 |
| Vinyl Chloride | U | 0.256 | U | 0.256 | U | 0.256 | U | 0.256 |
| 1,3-Butadiene | U | 0.221 | U | 0.221 | U | 0.221 | U | 0.221 |
| Bromomethane | 2.94 | 0.388 | 3.20 | 0.388 | 4.26 | 0.388 | 37.6 | 0.388 |
| Chloroethane | U | 0.264 | U | 0.264 | U | 0.264 | U | 0.264 |
| Acetone | 67.2 J | 5.94 | 75.0 J | 5.94 | 87.3 J | 5.94 | 87.7 J | 5.94 |
| Trichlorofluoromethane | 1.33 | 0.562 | 1.21 | 0.562 | 1.24 | 0.562 | 1.23 | 0.562 |
| Isopropyl Alcohol | 9.24 | 6.15 | 9.94 | 6.15 | 12.3 | 6.15 | 56.2 | 6.15 |
| 1,1-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 | U | 0.396 |
| Methylene Chloride | 0.376 | 0.347 | U | 0.347 | 0.348 | 0.347 | U | 0.347 |
| Trichlorotrifluoroethane | U | 0.766 | U | 0.766 | U | 0.766 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.405 | U | 0.405 | U | 0.405 | U | 0.405 |
| MTBE | U | 0.361 | U | 0.361 | U | 0.361 | U | 0.361 |
| Vinyl Acetate | 2.25 | 0.352 | 2.85 | 0.352 | 2.42 | 0.352 | 1.31 | 0.352 |
| 2-Butanone | 4.69 | 0.295 | 4.98 | 0.295 | 6.78 | 0.295 | 6.56 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 | U | 0.396 |
| Ethyl Acetate | 2.56 | 0.360 | 1.47 | 0.360 | 1.75 | 0.360 | 2.70 | 0.360 |
| Hexane | 4.29 | 0.352 | 0.938 | 0.352 | 0.821 | 0.352 | 5.06 | 0.352 |
| Chloroform | U | 0.488 | U | 0.488 | U | 0.488 | U | 0.488 |
| Tetrahydrofuran | 3.42 | 0.295 | 1.95 | 0.295 | 5.44 | 0.295 | 6.89 | 0.295 |
| 1,2-Dichloroethane | 25.4 | 0.405 | 25.9 | 0.405 | 37.5 | 0.405 | 7.19 | 0.405 |
| 1,1,1-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.546 | U | 0.546 |
| Benzene | U | 0.319 | U | 0.319 | U | 0.319 | U | 0.319 |
| Carbon Tetrachloride | U | 0.629 | U | 0.629 | U | 0.629 | U | 0.629 |
| Cyclohexane | U | 0.344 | U | 0.344 | U | 0.344 | U | 0.344 |
| 1,2-Dichloropropane | U | 0.462 | U | 0.462 | U | 0.462 | U | 0.462 |
| 1,4-Dioxane | U | 0.360 | U | 0.360 | U | 0.360 | U | 0.360 |
| Trichloroethene | U | 0.537 | U | 0.537 | U | 0.537 | U | 0.537 |
| Heptane | U | 0.410 | U | 0.410 | U | 0.410 | 0.455 | 0.410 |
| cis-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.454 | U | 0.454 |
| Methyl Isobutyl Ketone | U | 0.410 | 1.48 | 0.410 | 1.10 | 0.410 | 1.07 | 0.410 |
| trans-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.454 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.546 | U | 0.546 |
| Toluene | 3.21 | 0.377 | 2.64 | 0.377 | 3.29 | 0.377 | 5.02 | 0.377 |
| 2-Hexanone | U | 0.410 | U | 0.410 | 0.475 | 0.410 | U | 0.410 |
| Dibromochloromethane | U | 0.852 | U | 0.852 | U | 0.852 | U | 0.852 |
| 1,2-Dibromoethane | U | 0.768 | U | 0.768 | U | 0.768 | U | 0.768 |
| Tetrachloroethene | U | 0.678 | U | 0.678 | U | 0.678 | U | 0.678 |
| Chlorobenzene | U | 0.460 | U | 0.460 | U | 0.460 | U | 0.460 |
| Ethylbenzene | 2.48 | 0.434 | 2.76 | 0.434 | 3.53 | 0.434 | 1.68 | 0.434 |
| m&p-Xylene | 2.76 | 0.434 | 2.96 | 0.434 | 3.68 | 0.434 | 2.75 | 0.434 |
| Bromoform | U | 1.03 | U | 1.03 | U | 1.03 | U | 1.03 |
| Styrene | 7.76 | 0.426 | 8.68 | 0.426 | 17.1 | 0.426 | 5.72 | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.687 | U | 0.687 | U | 0.687 | U | 0.687 |
| o-Xylene | 1.48 | 0.434 | 1.55 | 0.434 | 1.82 | 0.434 | 1.52 | 0.434 |
| p-Ethyltoluene | U | 0.492 | U | 0.492 | U | 0.492 | U | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.492 | U | 0.492 | U | 0.492 | U | 0.492 |
| 1,2,4-Trimethylbenzene | 0.519 | 0.492 | 0.625 | 0.492 | 0.615 | 0.492 | 1.30 | 0.492 |
| 1,3-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 | U | 0.601 |
| Naphthalene | 0.646 | 0.524 | 0.863 | 0.524 | 0.862 | 0.524 | 0.779 | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | R504011-07 | | R504011-08 | | R504011-09 | | R504011-10 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 09906 | | 09908 | | 09913 | | 09914 | |
| Sample Location | Bedroom/Lower J | | Patio/Lower J | | Clubhouse AA | | Lower Porch AA | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Propylene | 1.87 | 1.72 | U | 1.72 | U | 1.72 | U | 1.72 |
| Dichlorodifluoromethane | 2.32 | 0.495 | 2.62 | 0.495 | 2.50 | 0.495 | 2.37 | 0.495 |
| Chloromethane | 3.52 | 0.207 | 1.62 | 0.207 | 1.53 | 0.207 | 1.78 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.699 | U | 0.699 | U | 0.699 | U | 0.699 |
| Vinyl Chloride | U | 0.256 | U | 0.256 | U | 0.256 | U | 0.256 |
| 1,3-Butadiene | U | 0.221 | U | 0.221 | U | 0.221 | U | 0.221 |
| Bromomethane | 40.0 | 0.388 | U | 0.388 | U | 0.388 | U | 0.388 |
| Chloroethane | U | 0.264 | U | 0.264 | U | 0.264 | U | 0.264 |
| Acetone | 93.7 J | 5.94 | 9.00 J | 5.94 | 16.2 J | 5.94 | 19.6 J | 5.94 |
| Trichlorofluoromethane | 1.29 | 0.562 | 1.39 | 0.562 | 1.33 | 0.562 | 1.28 | 0.562 |
| Isopropyl Alcohol | 46.7 | 6.15 | U | 6.15 | U | 6.15 | U | 6.15 |
| 1,1-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 | U | 0.396 |
| Methylene Chloride | U | 0.347 | U | 0.347 | U | 0.347 | U | 0.347 |
| Trichlorotrifluoroethane | U | 0.766 | U | 0.766 | U | 0.766 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.405 | U | 0.405 | U | 0.405 | U | 0.405 |
| MTBE | U | 0.361 | U | 0.361 | U | 0.361 | U | 0.361 |
| Vinyl Acetate | 1.96 | 0.352 | U | 0.352 | 1.29 | 0.352 | 1.38 | 0.352 |
| 2-Butanone | 6.46 | 0.295 | 0.869 | 0.295 | 1.07 | 0.295 | 0.862 | 0.295 |
| cis-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 | U | 0.396 |
| Ethyl Acetate | 1.38 | 0.360 | U | 0.360 | U | 0.360 | U | 0.360 |
| Hexane | 0.974 | 0.352 | 2.18 | 0.352 | U | 0.352 | U | 0.352 |
| Chloroform | U | 0.488 | U | 0.488 | U | 0.488 | U | 0.488 |
| Tetrahydrofuran | 5.27 | 0.295 | 0.973 | 0.295 | U | 0.295 | U | 0.295 |
| 1,2-Dichloroethane | 7.28 | 0.405 | U | 0.405 | U | 0.405 | U | 0.405 |
| 1,1,1-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.546 | U | 0.546 |
| Benzene | U | 0.319 | U | 0.319 | U | 0.319 | U | 0.319 |
| Carbon Tetrachloride | U | 0.629 | U | 0.629 | U | 0.629 | U | 0.629 |
| Cyclohexane | U | 0.344 | U | 0.344 | U | 0.344 | U | 0.344 |
| 1,2-Dichloropropane | U | 0.462 | U | 0.462 | U | 0.462 | U | 0.462 |
| 1,4-Dioxane | U | 0.360 | U | 0.360 | U | 0.360 | U | 0.360 |
| Trichloroethene | U | 0.537 | U | 0.537 | U | 0.537 | U | 0.537 |
| Heptane | U | 0.410 | U | 0.410 | U | 0.410 | U | 0.410 |
| cis-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.454 | U | 0.454 |
| Methyl Isobutyl Ketone | 0.547 | 0.410 | U | 0.410 | U | 0.410 | U | 0.410 |
| trans-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.454 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.546 | U | 0.546 |
| Toluene | 3.94 | 0.377 | 1.05 | 0.377 | U | 0.377 | U | 0.377 |
| 2-Hexanone | U | 0.410 | U | 0.410 | U | 0.410 | U | 0.410 |
| Dibromochloromethane | U | 0.852 | U | 0.852 | U | 0.852 | U | 0.852 |
| 1,2-Dibromoethane | U | 0.768 | U | 0.768 | U | 0.768 | U | 0.768 |
| Tetrachloroethene | U | 0.678 | U | 0.678 | U | 0.678 | U | 0.678 |
| Chlorobenzene | U | 0.460 | U | 0.460 | U | 0.460 | U | 0.460 |
| Ethylbenzene | 1.67 | 0.434 | U | 0.434 | U | 0.434 | U | 0.434 |
| m&p-Xylene | 2.66 | 0.434 | U | 0.434 | U | 0.434 | U | 0.434 |
| Bromoform | U | 1.03 | U | 1.03 | U | 1.03 | U | 1.03 |
| Styrene | 5.44 | 0.426 | U | 0.426 | U | 0.426 | U | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.687 | U | 0.687 | U | 0.687 | U | 0.687 |
| o-Xylene | 1.48 | 0.434 | U | 0.434 | U | 0.434 | U | 0.434 |
| p-Ethyltoluene | U | 0.492 | U | 0.492 | U | 0.492 | U | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.492 | U | 0.492 | U | 0.492 | U | 0.492 |
| 1,2,4-Trimethylbenzene | 1.50 | 0.492 | U | 0.492 | U | 0.492 | U | 0.492 |
| 1,3-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 | U | 0.601 |
| Naphthalene | 1.81 | 0.524 | 0.977 | 0.524 | U | 0.524 | U | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | R504011-11 | | R504011-12 | | R504011-13 | |
|---|---|---|---|---|---|---|
| Sample Number | 09915 | | 09916 | | 09909 | |
| Sample Location | Ferry | | Route 315 | | St. Thomas North of Islanc | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Propylene | 4.89 | 1.72 | 2.69 | 1.72 | 2.12 | 1.72 |
| Dichlorodifluoromethane | 2.50 | 0.495 | 2.31 | 0.495 | 2.48 | 0.495 |
| Chloromethane | 1.52 | 0.207 | 2.12 | 0.207 | 1.41 | 0.207 |
| Dichlorotetrafluoroethane | U | 0.699 | U | 0.699 | U | 0.699 |
| Vinyl Chloride | U | 0.256 | U | 0.256 | U | 0.256 |
| 1,3-Butadiene | U | 0.221 | U | 0.221 | U | 0.221 |
| Bromomethane | U | 0.388 | U | 0.388 | U | 0.388 |
| Chloroethane | U | 0.264 | U | 0.264 | U | 0.264 |
| Acetone | 46.9 J | 5.94 | 47.6 J | 5.94 | 15.4 J | 5.94 |
| Trichlorofluoromethane | 1.27 | 0.562 | 1.27 | 0.562 | 1.31 | 0.562 |
| Isopropyl Alcohol | U | 6.15 | U | 6.15 | U | 6.15 |
| 1,1-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 |
| Methylene Chloride | U | 0.347 | 0.363 | 0.347 | U | 0.347 |
| Trichlorotrifluoroethane | U | 0.766 | U | 0.766 | U | 0.766 |
| trans-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 |
| 1,1-Dichloroethane | U | 0.405 | U | 0.405 | U | 0.405 |
| MTBE | U | 0.361 | U | 0.361 | U | 0.361 |
| Vinyl Acetate | 2.25 | 0.352 | 1.78 | 0.352 | 2.18 | 0.352 |
| 2-Butanone | 1.04 | 0.295 | 2.68 | 0.295 | U | 0.295 |
| cis-1,2-Dichloroethene | U | 0.396 | U | 0.396 | U | 0.396 |
| Ethyl Acetate | U | 0.360 | 0.800 | 0.360 | U | 0.360 |
| Hexane | U | 0.352 | 0.370 | 0.352 | 0.778 | 0.352 |
| Chloroform | U | 0.488 | 59.7 | 0.488 | U | 0.488 |
| Tetrahydrofuran | U | 0.295 | U | 0.295 | U | 0.295 |
| 1,2-Dichloroethane | U | 0.405 | 0.775 | 0.405 | U | 0.405 |
| 1,1,1-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.546 |
| Benzene | 3.28 | 0.319 | 0.367 | 0.319 | 1.39 | 0.319 |
| Carbon Tetrachloride | U | 0.629 | U | 0.629 | U | 0.629 |
| Cyclohexane | U | 0.344 | U | 0.344 | U | 0.344 |
| 1,2-Dichloropropane | U | 0.462 | U | 0.462 | U | 0.462 |
| 1,4-Dioxane | U | 0.360 | U | 0.360 | U | 0.360 |
| Trichloroethene | U | 0.537 | U | 0.537 | U | 0.537 |
| Heptane | U | 0.410 | 0.638 | 0.410 | 0.610 | 0.410 |
| cis-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.454 |
| Methyl Isobutyl Ketone | U | 0.410 | 0.916 | 0.410 | U | 0.410 |
| trans-1,3-Dichloropropene | U | 0.454 | U | 0.454 | U | 0.454 |
| 1,1,2-Trichloroethane | U | 0.546 | U | 0.546 | U | 0.546 |
| Toluene | 5.75 | 0.377 | 0.916 | 0.377 | 17.0 | 0.377 |
| 2-Hexanone | U | 0.410 | U | 0.410 | U | 0.410 |
| Dibromochloromethane | U | 0.852 | U | 0.852 | U | 0.852 |
| 1,2-Dibromoethane | U | 0.768 | U | 0.768 | U | 0.768 |
| Tetrachloroethene | U | 0.678 | U | 0.678 | U | 0.678 |
| Chlorobenzene | U | 0.460 | U | 0.460 | U | 0.460 |
| Ethylbenzene | 0.985 | 0.434 | U | 0.434 | 2.95 | 0.434 |
| m&p-Xylene | 2.47 | 0.434 | 0.783 | 0.434 | 9.26 | 0.434 |
| Bromoform | U | 1.03 | U | 1.03 | U | 1.03 |
| Styrene | U | 0.426 | U | 0.426 | U | 0.426 |
| 1,1,2,2-Tetrachloroethane | U | 0.687 | U | 0.687 | U | 0.687 |
| o-Xylene | 0.967 | 0.434 | U | 0.434 | 3.66 | 0.434 |
| p-Ethyltoluene | U | 0.492 | U | 0.492 | 0.690 | 0.492 |
| 1,3,5-Trimethylbenzene | U | 0.492 | U | 0.492 | 0.697 | 0.492 |
| 1,2,4-Trimethylbenzene | 1.21 | 0.492 | 0.550 | 0.492 | 2.37 | 0.492 |
| 1,3-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 |
| 1,4-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 |
| 1,2-Dichlorobenzene | U | 0.601 | U | 0.601 | U | 0.601 |
| Naphthalene | 0.591 | 0.524 | U | 0.524 | U | 0.524 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R505002-05 | | R505002-01 | | R505002-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Methodblank 050315-01 | | 9877 | | 9874 | | 9875 | |
| Sample Location | N/A | | Trip Blank | | Master | | Bedroom | |
| Sublocation | N/A | | Lower | | Lower | | Lower | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Bromomethane | U | 0.0777 | U | 0.0777 | 7.66 | 0.388 | 9.04 | 0.388 |

Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | R505002-02 | | R505002-04 | |
|---|---|---|---|---|
| Sample Number | 9873 | | 9876 | |
| Sample Location | Kitchen/Living Room | | Patio AA | |
| Sublocation | Lower | | Lower | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Bromomethane | 16.2 | 0.388 | U | 0.0777 |

Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R505003-02 | | R505003-01 | |
|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 051415-01 | | 09892 | | 09891 | |
| Sample Location | N/A | | Kitchen/Ceiling | | Kitchen/Wall | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Bromomethane | U | 0.0777 | 0.341 | 0.0777 | 0.190 | 0.0777 |

Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R505003-03 | | R505004-01 | | R505004-02 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | System Blank 051415-01 | | 09893 | | 9931 | | 9932 | |
| Sample Location | N/A | | Kitchen/Drywall | | Living room/Isolated | | Living room/Kitchen | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Bromomethane | U | 0.0777 | 4.89 | 0.388 | 2.78 | 0.0777 | 0.287 | 0.0777 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814



| SERAS Sample Number | N/A | | R505005-01 | | R505005-02 | |
|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 051615-01 | | 9935 | | 9936 | |
| Sample Location | N/A | | Kitchen Cabinet | | Ambient Patio | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Bromomethane | U | 0.0777 | 37.5 | 0.0777 | U | 0.0777 |

Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | N/A | | R505006-06 | | R505006-02 | | R505006-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 051915-01 | | 9942 | | 9938 | | 9939 | |
| Sample Location | N/A | | Trip Blank | | Master Bedroom | | Bedroom | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Bromomethane | U | 0.0777 | U | 0.0777 | 4.77 | 0.0777 | 5.81 | 0.0777 |

Table 1.1b (cont) Results of the Analysis for VOC (µg/m³) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method: SERAS SOP#1814

| SERAS Sample Number | R505006-01 | | R505006-05 | | R505006-04 | |
|---|---|---|---|---|---|---|
| Sample Number | 9937 | | 9941 | | 9940 | |
| Sample Location | Kitchen/Living room | | Dup Kitchen/Living room | | Patio AA | |
| Analyte | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 | Results µg/m3 | *RL* µg/m3 |
| Bromomethane | 5.78 | 0.0777 | 5.50 | 0.0777 | U | 0.0777 |

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Table 1.2. Results of the TICs for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



| Sample Number: | Location | Analyte | RT | Concentration* (ppbv) |
|---|---|---|---|---|
| PSMethodBlank 032615-01 | | No non-targets were found | | |
| 55003 | Trip | Nonanal | 18.2 | 0.114 |
| 55000 | Kitchen | Acetaldehyde | 4.21 | 0.812 |
| | | Ethanol | 4.92 | 17.3 |
| | | Pentanal | 9.73 | 0.500 |
| | | Dimethyl-Disulfide | 11.1 | 2.06 |
| | | Alpha-pinene | 15.6 | 4.77 |
| | | Unknown Alkene | 16.5 | 0.979 |
| | | Limonene | 17.3 | 2.26 |
| | | Nonanal | 18.2 | 1.28 |
| 55001 | Outside A/C | Acetaldehyde | 4.20 | 0.511 |
| | | Butane | 4.44 | 0.204 |
| | | Ethanol | 4.89 | 0.116 |
| | | Pentane | 5.68 | 0.0757 |
| | | C5H8 diene | 5.77 | 1.06 |
| | | Hexanal | 12.2 | 0.0611 |
| | | Heptanal | 14.4 | 0.0632 |
| | | Octanal | 16.4 | 0.108 |
| | | Nonanal | 18.2 | 0.321 |
| 55002 | MBR | Methane, iodo | 5.87 | 4.86 |
| | | Acetic acid, methyl ester | 6.01 | 5.83 |
| | | Unknown | 7.01 | 6.39 |
| | | Alpha-pinene | 15.6 | 4.39 |
| 55004 | BR2 | Acetaldehyde | 4.21 | 0.768 |
| | | Ethanol | 4.92 | 15.9 |
| | | Pentanal | 9.73 | 0.549 |
| | | DimethylDisulfide | 11.1 | 2.17 |
| | | Alpha-pinene | 15.6 | 4.78 |
| | | Octanal | 16.4 | 0.593 |
| | | Unknown | 16.5 | 0.974 |
| | | Limonene | 17.3 | 2.21 |
| | | Nonanal | 18.2 | 1.14 |

* Estimated Concentration (J)

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Table 1.2 (cont) Results of the TICs for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



| Sample Number: | Location | Analyte | RT | Concentration* (ppbv) |
|---|---|---|---|---|
| PSMethodBlank 040115-03 | | No non-targets were found | | |
| 55115 | Trip | Pentane | 5.69 | 0.112 |
| | | Unknown | 7.00 | 0.0583 |
| | | Alkane | 16.7 | 0.647 |
| | | Alkane | 17.4 | 0.0542 |
| | | Unknown | 18.2 | 0.0582 |
| 55112 | Ambient | Acetaldehyde | 4.20 | 0.104 |
| | | C5H8 diene | 5.78 | 0.165 |
| | | 3-Methyl-Pentane | 7.42 | 0.0966 |
| | | Cyclopentane, methyl | 8.53 | 0.115 |
| | | Pentanal | 9.74 | 0.115 |
| | | Hexanal | 12.2 | 0.121 |
| | | n-heptanal | 14.4 | 0.163 |
| | | Octanal | 16.4 | 0.206 |
| | | Nonanal | 18.2 | 0.576 |
| 55116 | (A) Background | 1,1-Difluoroethane | 3.82 | 3.96 |
| | | 2-Methylpropane | 4.20 | 10.7 |
| | | Butane | 4.45 | 2.76 |
| | | Ethanol | 4.91 | 55.1 |
| | | Cyclohexanone | 14.3 | 11.1 |
| | | Alkane (C12H26) | 16.7 | 49.5 |
| | | dl-Limonene | 17.3 | 7.17 |
| | | Alkane | 17.4 | 4.08 |
| | | Alkane | 17.6 | 2.06 |
| 55113 | (J) Lower Kitchen | Ethanol | 4.89 | 0.287 |
| | | 3-Methylpentane | 7.43 | 0.526 |
| | | alpha Pinene | 15.6 | 5.99 |
| | | dl-Limonene | 17.3 | 2.87 |
| 55114 | (J) Lower Utility Rm | Ethanol | 4.89 | 0.291 |
| | | 3-Methylpentane | 7.43 | 0.526 |
| | | alpha Pinene | 15.6 | 5.71 |
| | | dl-Limonene | 17.3 | 2.60 |
| 55117 | "I" Lower | Ethanol | 4.88 | 11.4 |
| | | Unknown | 9.13 | 0.965 |
| | | Hexanal | 12.2 | 1.16 |
| | | alpha Pinene | 15.6 | 2.35 |
| | | dl-Limonene | 17.3 | 4.29 |
| | | Nonanal | 18.2 | 0.963 |
| 55118 | "I" Upper | Ethanol | 4.88 | 26.2 |
| | | C5H8 Diene | 5.78 | 1.60 |
| | | Alkene (C5H10) | 7.01 | 1.72 |
| | | alpha Pinene | 15.6 | 1.52 |
| | | dl-Limonene | 17.3 | 1.82 |
| | | Nonanal | 18.2 | 1.11 |

* Estimated Concentration (J)

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Table 1.2 (cont) Results of the Analysis for TICs for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



| Sample Number: | Location | Analyte | RT | Concentration* (ppbv) |
|---|---|---|---|---|
| PSMethodBlank 040914-04 | | No non-targets were found | | |
| TB-150405 | NA | Acetaldehyde | 4.19 | 0.0638 |
| | | Nonanal | 18.2 | 0.0904 |
| P001-AA-U-150405-09 | NA | Pentane, 2-methyl | 7.42 | 0.0781 |
| | | Hexane, 2-methyl | 9.49 | 0.208 |
| | | Pentane, dimethyl | 9.57 | 0.159 |
| | | Hexane, methyl | 9.72 | 0.278 |
| | | Alkane | 10.1 | 0.392 |
| | | Octanal | 16.4 | 0.126 |
| | | Nonanal | 18.2 | 0.384 |
| P001-IA-U-140405-05 | Upper | Acetaldehyde | 4.19 | 3.84 |
| | | C5 Diene | 5.77 | 0.959 |
| | | Pentanal | 9.72 | 1.18 |
| | | Hexanal | 12.2 | 4.06 |
| | | alpha Pinene | 15.6 | 8.37 |
| | | C6 H10 Cyclohexene | 16.5 | 1.66 |
| | | dl-Limonene | 17.3 | 2.96 |
| | | Nonanal | 18.2 | 2.44 |
| P001-IA-U-140405-06 | Upper | Acetaldehyde | 4.19 | 3.81 |
| | | C5 Diene | 5.77 | 1.93 |
| | | Pentanal | 9.72 | 1.12 |
| | | Hexanal | 12.2 | 4.04 |
| | | alpha Pinene | 15.6 | 8.49 |
| | | Octanal | 16.4 | 1.11 |
| | | C6 H10 Cyclohexene | 16.5 | 1.64 |
| | | dl-Limonene | 17.3 | 2.97 |
| | | Nonanal | 18.2 | 2.00 |
| P001-IA-U-140405-07 | Upper | Acetaldehyde | 4.19 | 3.72 |
| | | Pentanal | 9.72 | 1.06 |
| | | Hexanal | 12.2 | 3.92 |
| | | alpha Pinene | 15.6 | 8.64 |
| | | Octanal | 16.4 | 1.25 |
| | | C6 H10 Cyclohexene | 16.5 | 1.64 |
| | | dl-Limonene | 17.3 | 2.83 |
| | | Nonanal | 18.2 | 2.29 |
| P001-IA-U-140405-08 | Upper | Acetaldehyde | 4.18 | 3.51 |
| | | Ethanol | 4.87 | 5.52 |
| | | Acetic acid, methyl ester | 5.98 | 1.69 |
| | | Pentanal | 9.72 | 1.07 |
| | | Hexanal | 12.2 | 3.93 |
| | | alpha Pinene | 15.6 | 8.28 |
| | | C6 H10 Cyclohexene | 16.5 | 1.60 |
| | | dl-Limonene | 17.3 | 2.81 |
| | | Nonanal | 18.2 | 2.27 |
| P001-IA-L-140405-01 | Lower | Acetaldehyde | 4.19 | 2.18 |
| | | Ethanol | 4.88 | 3.66 |
| | | Pentane | 5.68 | 1.03 |
| | | Acetic acid, methyl ester | 5.98 | 4.16 |
| | | Hexanal | 12.2 | 2.68 |
| | | alpha Pinene | 15.6 | 3.13 |
| | | dl-Limonene | 17.3 | 1.15 |
| | | Nonanal | 18.2 | 2.66 |

* Estimated Concentration (J)

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Table 1.2 (cont) Results of the Analysis for TICs for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



| Sample Number: | Location | Analyte | RT | Concentration* (ppbv) |
|---|---|---|---|---|
| P001-IA-L-140405-02 | Lower | Acetaldehyde | 4.18 | 2.12 |
| | | Ethanol | 4.88 | 4.16 |
| | | Acetic acid, methyl ester | 5.98 | 4.37 |
| | | Hexanal | 12.2 | 2.64 |
| | | alpha Pinene | 15.6 | 2.96 |
| | | C6 H10 Cyclohexene | 16.5 | 1.41 |
| | | dl-Limonene | 17.3 | 1.14 |
| | | Nonanal | 18.2 | 2.45 |
| P001-IA-L-140405-03 | Lower | Acetaldehyde | 4.18 | 2.30 |
| | | Ethanol | 4.88 | 6.99 |
| | | Pentane | 5.67 | 1.18 |
| | | C5 Diene | 5.77 | 2.47 |
| | | Acetic acid, methyl ester | 5.97 | 4.99 |
| | | Hexanal | 12.2 | 2.62 |
| | | alpha Pinene | 15.6 | 2.98 |
| | | dl-Limonene | 17.3 | 1.18 |
| | | Nonanal | 18.2 | 2.70 |
| Method Blank 041015-01 | NA | No Non-Targets Detected | | |
| P001-IA-L-140405-04 | Lower | Acetaldehyde | 4.19 | 2.52 |
| | | Ethanol | 4.87 | 20.0 |
| | | Pentane | 5.67 | 1.23 |
| | | 1-Butanol | 9.08 | 2.53 |
| | | Hexanal | 12.2 | 3.06 |
| | | alpha Pinene | 15.6 | 3.45 |
| | | dl-Limonene | 17.3 | 1.33 |
| | | Nonanal | 18.2 | 3.08 |
| Methodblank 041615-01 | NA | No Non-Targets Detected | | |
| 9821 | Kitchen/upper | Acetaldehyde | 4.19 | 0.658 |
| | | Ethanol | 4.86 | 4.27 |
| | | C5H8 Diene | 5.76 | 0.842 |
| | | C5H10 alkene | 7.00 | 0.475 |
| | | Hexanal | 12.2 | 0.379 |
| | | alpha Pinene | 15.6 | 0.537 |
| | | C8H14O ketene | 16.1 | 1.07 |
| | | Octanal | 16.4 | 0.380 |
| | | Nonanal | 18.2 | 0.924 |
| 9822 | Kitchen/lower | Acetaldehyde | 4.19 | 0.482 |
| | | Ethanol | 4.86 | 6.12 |
| | | C5H8 Diene | 5.77 | 0.902 |
| | | Acetic acid, methyl ester | 5.99 | 0.314 |
| | | 1-Butanol | 9.10 | 0.491 |
| | | Hexanal | 12.2 | 0.425 |
| | | alpha Pinene | 15.6 | 0.499 |
| | | Nonanal | 18.2 | 0.910 |

* Estimated Concentration (J)

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Table 1.2 (cont) Results of the Analysis for TICs for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



| Sample Number: | Location | Analyte | RT | Concentration* (ppbv) |
|---|---|---|---|---|
| PS-Methodblank 042015-02 | N/A | No Non-Targets Detected | | |
| 9840 | Trip Blank | No Non-Targets Detected | | |
| 9837 | Up J-Kitchen | Acetaldehyde | 4.19 | 0.848 |
| | | C5H8 Diene | 5.77 | 0.737 |
| | | Acetic acid, methyl ester | 5.99 | 0.286 |
| | | C5H10 alkene | 7.00 | 0.984 |
| | | Hexanal | 12.2 | 0.771 |
| | | alpha Pinene | 15.6 | 1.35 |
| | | Octanal | 16.4 | 0.385 |
| | | dl-Limonene | 17.3 | 0.498 |
| | | Nonanal | 18.2 | 0.897 |
| 9838 | Low J-Kitchen | Acetaldehyde | 4.19 | 1.17 |
| | | Ethanol | 4.87 | 7.37 |
| | | Acetic acid, methyl ester | 5.98 | 0.733 |
| | | 1-Butanol | 9.10 | 0.692 |
| | | Hexanal | 12.2 | 0.930 |
| | | alpha Pinene | 15.6 | 1.63 |
| | | dl-Limonene | 17.3 | 0.513 |
| | | Nonanal | 18.2 | 1.15 |
| 9839 | Low J-Bag | Acetaldehyde | 4.19 | 2.17 |
| | | C4 Alkene | 4.35 | 12.8 |
| | | Ethanol | 4.87 | 2.95 |
| | | Hexanal | 12.2 | 3.48 |
| | | Octane | 12.7 | 1.24 |
| | | Octanal . | 16.4 | 1.61 |
| | | Decane | 16.7 | 1.49 |
| | | Nonanal | 18.2 | 3.36 |

* Estimated Concentration (J)

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Table 1.2 (cont) Results of the Analysis for TICs for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



| Sample Number: | Location | Analyte | RT | Concentration* (ppbv) |
|---|---|---|---|---|
| PS-Methodblank 042115-02 | N/A | No Non-Targets Detected | | |
| 9911 | Trip Blank | Ethanol | 4.86 | 1.07 |
| 9907 | Kitchen/Upper J | Acetaldehyde | 4.19 | 2.42 |
| | | Ethanol | 4.87 | 1.22 |
| | | C5H10 alkene | 7.00 | 2.76 |
| | | Hexanal | 12.2 | 2.59 |
| | | alpha Pinene | 15.6 | 4.08 |
| | | dl-Limonene | 17.3 | 1.52 |
| | | Nonanal | 18.2 | 1.88 |
| 9904 | Kitchen/Lower J | Acetaldehyde | 4.19 | 1.53 |
| | | Ethanol | 4.86 | 9.99 |
| | | 1-Butanol | 9.08 | 2.99 |
| | | Hexanal | 12.2 | 1.98 |
| | | Benzaldehyde/alpha Pinene | 15.6 | 4.81 |
| | | Nonanal | 18.2 | 1.61 |
| 9910 | BR1/Upper J | Acetaldehyde | 4.19 | 1.64 |
| | | Ethanol | 4.86 | 8.53 |
| | | 1-Butanol | 9.09 | 1.23 |
| | | Hexanal | 12.2 | 2.18 |
| | | alpha Pinene | 15.6 | 3.19 |
| | | Octanal | 16.4 | 0.857 |
| | | Unknown | 16.5 | 0.762 |
| | | dl-Limonene | 17.3 | 1.03 |
| | | Nonanal | 18.2 | 1.78 |
| 9903 | BR2/Upper J | Acetaldehyde | 4.19 | 2.09 |
| | | Ethanol | 4.87 | 12.4 |
| | | Acetic acid, methyl ester | 5.98 | 0.870 |
| | | 1-Butanol | 9.09 | 1.36 |
| | | Hexanal | 12.2 | 2.64 |
| | | Unknown | 12.6 | 1.11 |
| | | alpha Pinene | 15.6 | 3.86 |
| | | dl-Limonene | 17.3 | 1.18 |
| | | Nonanal | 18.2 | 1.30 |
| 9902 | Master/Upper J | Acetaldehyde | 4.19 | 2.77 |
| | | Ethanol | 4.87 | 16.3 |
| | | 1-Butanol | 9.09 | 1.71 |
| | | Unknown | 11.4 | 0.788 |
| | | Hexanal | 12.2 | 2.64 |
| | | Unknown | 12.6 | 3.70 |
| | | alpha Pinene | 15.6 | 4.20 |
| | | dl-Limonene | 17.3 | 1.41 |
| | | Nonanal | 18.2 | 1.86 |
| 9905 | Master/Lower J | Acetaldehyde | 4.19 | 1.25 |
| | | Ethanol | 4.87 | 9.04 |
| | | Acetic acid, methyl ester | 5.98 | 1.10 |
| | | 1-Butanol | 9.09 | 1.62 |
| | | Hexanal. | 12.2 | 1.87 |
| | | alpha Pinene | 15.6 | 2.74 |
| | | Nonanal | 18.2 | 1.47 |

* Estimated Concentration (J)

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Table 1.2 (cont) Results of the TICs for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



| Sample Number: | Location | Analyte | RT | Concentration* (ppbv) |
|---|---|---|---|---|
| 9906 | Bedroom/Lower J | Acetaldehyde | 4.19 | 1.73 |
| | | Ethanol | 4.87 | 13.3 |
| | | Acetic acid, methyl ester | 5.98 | 1.55 |
| | | 1-Butanol | 9.09 | 1.67 |
| | | Hexanal | 12.2 | 2.13 |
| | | alpha Pinene | 15.6 | 2.78 |
| | | Unknown | 16.5 | 0.852 |
| | | Nonanal | 18.2 | 2.36 |
| 9908 | Patio/Lower J | Acetaldehyde | 4.20 | 0.602 |
| | | Ethanol | 4.88 | 0.564 |
| | | Decane | 16.7 | 0.462 |
| | | Unknown Alkane | 16.7 | 0.821 |
| | | Nonanal | 18.2 | 0.636 |
| | | C11 Alkane | 18.4 | 1.76 |
| | | C12 Alkane | 20.0 | 1.94 |
| | | C13 Alkane | 21.5 | 1.13 |
| 9913 | Clubhouse AA | Acetaldehyde | 4.20 | 0.685 |
| | | C5H8 Diene | 5.77 | 0.503 |
| 9914 | Lower Porch AA | Acetaldehyde | 4.19 | 0.851 |
| | | C5H8 Diene | 5.77 | 1.72 |
| 9915 | Ferry | Acetaldehyde | 4.19 | 1.22 |
| | | Butene | 4.36 | 0.779 |
| | | Ethanol | 4.88 | 0.257 |
| 9916 | Route 315 | Acetaldehyde | 4.19 | 1.83 |
| | | Ethanol | 4.87 | 19.9 |
| | | C5H8 Diene | 5.77 | 1.45 |
| | | C8 Alkane | 16.7 | 0.742 |
| | | dl-Limonene | 17.3 | 0.455 |
| | | C9 Alkane | 17.8 | 0.819 |
| | | C12 Alkane | 21.3 | 0.593 |
| 9909 | St. Thomas North of Island | Unknown | 4.19 | 1.00 |
| | | Butene | 4.36 | 0.298 |
| | | Butane | 4.44 | 1.03 |
| | | Pentane | 5.67 | 0.536 |
| | | 2-Butene, 2-methyl | 6.04 | 0.280 |
| | | C5 Alkane | 6.36 | 0.290 |
| | | C6 alkane | 7.00 | 0.378 |
| | | Pentane, 3-methyl- | 7.42 | 0.360 |
| | | C8 alkane | 10.1 | 1.64 |
| | | C8 Alkane | 11.6 | 0.486 |

* Estimated Concentration (J)

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Environmental Response Team/Scientific Engineering, Response and Analytical Services
2890 Woodbridge Avenue, Building 209 Annex
Edison NJ 08837

Table 1.3 Results of the Analysis for VOC in Water
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP 1806

| SERAS Sample Number | | | R503010-04 | | R504002-03 | | | R504002-02 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number | Water Blank B 040215-01 | | 55039 | | 55152 | | | 55050 | | |
| Sample Location: | | | Trip Blank | | Trip Blank | | | Field Blank | | |
| Analyte | Result µg/L | *RL* µg/L | Result µg/L | *RL* µg/L | Result µg/L | | *RL* µg/L | Result µg/L | | *RL* µg/L |
| Dichlorodifluoromethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Chloromethane | U | 20.0 | U | 20.0 | U | J | 20.0 | U | J | 20.0 |
| Vinyl Chloride | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Bromomethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Chloroethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Trichlorofluoromethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Acetone | U | 20.0 | U | 20.0 | U | J | 20.0 | U | J | 20.0 |
| 1,1-Dichloroethene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Methylene Chloride | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Carbon Disulfide | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Methyl tert-Butyl Ether | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| trans-1,2-Dichloroethene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,1 Dichloroethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 2-Butanone | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 2,2-Dichloropropane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| cis-1,2-Dichloroethene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Chloroform | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,1-Dichloropropene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,2-Dichloroethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,1,1-Trichloroethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Carbon Tetrachloride | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Benzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Trichloroethene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,2-Dichloropropane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Bromodichloromethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Dibromomethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| cis-1,3-Dichloropropene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| trans-1,3-Dichloropropene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,1,2-Trichloroethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,3-Dichloropropane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Dibromochloromethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,2-Dibromoethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Bromoform | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 4-Methyl-2-Pentanone | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Toluene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 2-Hexanone | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Tetrachloroethene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Chlorobenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,1,1,2-Tetrachloroethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Ethylbenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| p&m-Xylene | U | 10.0 | U | 10.0 | U | J | 10.0 | U | J | 10.0 |
| o-Xylene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Styrene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Isopropylbenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,1,2,2-Tetrachloroethane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,2,3-Trichloropropane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| n-Propylbenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Bromobenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,3,5-Trimethylbenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 2-Chlorotoluene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 4-Chlorotoluene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| tert-Butylbenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,2,4-Trimethylbenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| sec-Butylbenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| p-Isopropyltoluene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,3-Dichlorobenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,4-Dichlorobenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| n-Butylbenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,2-Dichlorobenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,2-Dibromo-3-Chloropropane | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,2,4-Trichlorobenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Hexachlorobutadiene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| Naphthalene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |
| 1,2,3-Trichlorobenzene | U | 5.00 | U | 5.00 | U | J | 5.00 | U | J | 5.00 |

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Table 1.3 (cont) Results of the Analysis for VOC in Water
WA# SERAS-270, St. John Methyl Bromide Response



Method: SERAS SOP 1806

| SERAS Sample Number | R503010-01 | | R503010-02 | | R503010-03 | | R504002-01 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 55036 | | 55037 | | 55038 | | 55049 | |
| Sample Location: | Upper Kitchen | | Upper BR2 | | Upper BR2 | | Lower Kitchen | |
| Analyte | Result µg/L | *RL* µg/L | Result µg/L | *RL* µg/L | Result µg/L | *RL* µg/L | Result µg/L | *RL* µg/L |
| Dichlorodifluoromethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Chloromethane | U | 20.0 | U | 20.0 | U | 20.0 | U J | 20.0 |
| Vinyl Chloride | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Bromomethane | U | 5.00 | U | 5.00 | U | 5.00 | 1.31 J | 5.00 |
| Chloroethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Trichlorofluoromethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Acetone | U | 20.0 | U | 20.0 | U | 20.0 | U J | 20.0 |
| 1,1-Dichloroethene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Methylene Chloride | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Carbon Disulfide | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Methyl tert-Butyl Ether | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| trans-1,2-Dichloroethene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,1 Dichloroethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 2-Butanone | 3.45 J | 5.00 | 6.96 | 5.00 | 7.10 | 5.00 | 18.1 J | 5.00 |
| 2,2-Dichloropropane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| cis-1,2-Dichloroethene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Chloroform | U | 5.00 | 1.59 J | 5.00 | 1.48 J | 5.00 | 3.86 J | 5.00 |
| 1,1-Dichloropropene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,2-Dichloroethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,1,1-Trichloroethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Carbon Tetrachloride | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Benzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Trichloroethene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,2-Dichloropropane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Bromodichloromethane | 2.47 J | 5.00 | 3.80 J | 5.00 | 3.61 J | 5.00 | 5.81 J | 5.00 |
| Dibromomethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| cis-1,3-Dichloropropene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| trans-1,3-Dichloropropene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,1,2-Trichloroethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,3-Dichloropropane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Dibromochloromethane | 8.33 | 5.00 | 14.8 | 5.00 | 14.5 | 5.00 | 18.9 J | 5.00 |
| 1,2-Dibromoethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Bromoform | 19.6 | 5.00 | 42.5 | 5.00 | 42.9 | 5.00 | 51.7 J | 5.00 |
| 4-Methyl-2-Pentanone | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Toluene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 2-Hexanone | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Tetrachloroethene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Chlorobenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,1,1,2-Tetrachloroethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Ethylbenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| p&m-Xylene | U | 10.0 | U | 10.0 | U | 10.0 | U J | 10.0 |
| o-Xylene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Styrene | R | | U | 5.00 | U | 5.00 | U J | 5.00 |
| Isopropylbenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,1,2,2-Tetrachloroethane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,2,3-Trichloropropane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| n-Propylbenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Bromobenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,3,5-Trimethylbenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 2-Chlorotoluene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 4-Chlorotoluene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| tert-Butylbenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,2,4-Trimethylbenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| sec-Butylbenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| p-Isopropyltoluene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,3-Dichlorobenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,4-Dichlorobenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| n-Butylbenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,2-Dichlorobenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,2-Dibromo-3-Chloropropane | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,2,4-Trichlorobenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Hexachlorobutadiene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| Naphthalene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |
| 1,2,3-Trichlorobenzene | U | 5.00 | U | 5.00 | U | 5.00 | U J | 5.00 |

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Table 1.4. Results of the TICs for VOC in Water
WA# SERAS-270, St. John Methyl Bromide Response



| Sample Number: | Location | Analyte | RT | Concentration* (µg/L) |
|---|---|---|---|---|
| Water Blank B 040215-01 | | No non-targets were found | | |
| 55039 | Trip Blank | No non-targets were found | | |
| 55152 | Trip Blank | Methane, dimethoxy- | 5.39 | 5.01 |
| 55050 | Field Blank | No non-targets were found | | |
| 55036 | Upper Kitchen | No non-targets were found | | |
| 55037 | Upper BR2 | No non-targets were found | | |
| 55038 | Upper BR2 | No non-targets were found | | |
| 55049 | Lower Kitchen | No non-targets were found | | |

* Estimated Concentration (J)

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Table 1.5 Results of the Analysis for Pesticides in Wipes
WA# SERAS-270, St. John Methyl Bromide Response



Method : EPA SW846/8081B

| Laboratory Sample Number | WG160524-1 | | SI1948-1 | | SI1948-2 | | SI1948-3 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 03/31/15 | | 55005 | | 55007 | | 55009 | |
| Sample Location | | | 1H | | 2H | | 3H | |
| Area | NA | | 100 cm² | | 100 cm² | | 100 cm² | |
| Analyte | Result ug/Wipe | RL ug/Wipe | Result ug/cm² | RL ug/cm² | Result ug/cm² | RL ug/cm² | Result ug/cm² | RL ug/cm² |
| ALPHA BHC | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| GAMMA BHC | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| HEPTACHLOR | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| ALDRIN | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| BETA BHC | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| DELTA BHC | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| HEPTACHLOR EPOXIDE | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| ENDOSULFAN I | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| GAMMA-CHLORDANE | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| ALPHA-CHLORDANE | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| 4,4'-DDE | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| DIELDRIN | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDRIN | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| 4,4'-DDD | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDOSULFAN II | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| 4,4'-DDT | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDRIN ALDEHYDE | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDOSULFAN SULFATE | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| METHOXYCHLOR | U | 1.2 | U | 0.012 | U | 0.012 | U | 0.012 |
| ENDRIN KETONE | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| TOXAPHENE | U | 2.5 | U | 0.025 | U | 0.025 | U | 0.025 |

Table 1.5 (cont) Results of the Analysis for Pesticides in Wipes
WA# SERAS-270, St. John Methyl Bromide Response

Method : EPA SW846/8081B

| Laboratory Sample Number | SI-1948-4 | | SI1948-5 | | SI1948-6 | | SI1948-7 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 55011 | | 55013 | | 55015 | | 55017 | |
| Sample Location | 4H | | 5H | | 6H | | 7H | |
| Area | 100 cm² | | 100 cm² | | 100 cm² | | 100 cm² | |
| Analyte | Result ug/cm² | RL ug/cm² | Result ug/cm² | RL ug/cm² | Result ug/cm² | RL ug/cm² | Result ug/cm² | RL ug/cm² |
| ALPHA BHC | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| GAMMA BHC | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| HEPTACHLOR | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| ALDRIN | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| BETA BHC | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| DELTA BHC | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| HEPTACHLOR EPOXIDE | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| ENDOSULFAN I | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| GAMMA-CHLORDANE | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| ALPHA-CHLORDANE | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| 4,4'-DDE | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| DIELDRIN | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDRIN | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| 4,4'-DDD | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDOSULFAN II | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| 4,4'-DDT | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDRIN ALDEHYDE | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDOSULFAN SULFATE | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| METHOXYCHLOR | U | 0.012 | U | 0.012 | U | 0.012 | U | 0.012 |
| ENDRIN KETONE | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| TOXAPHENE | U | 0.025 | U | 0.025 | U | 0.025 | U | 0.025 |

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Table 1.5 (cont) Results of the Analysis for Pesticides in Wipes
WA# SERAS-270, St. John Methyl Bromide Response



Method : EPA SW846/8081B

| | | |
|---|---|---|
| Laboratory Sample Number | SI-1948-8 | SI1948-9 |
| Sample Number | 55019 | 55021 |
| Sample Location | 8H | Template Blank |
| Area | 100 cm² | NA |

| Analyte | Result ug/Wipe | RL ug/Wipe | Result ug/Wipe | RL ug/Wipe |
|---|---|---|---|---|
| ALPHA BHC | U | 0.0012 | U | 0.12 |
| GAMMA BHC | U | 0.0012 | U | 0.12 |
| HEPTACHLOR | U | 0.0012 | U | 0.12 |
| ALDRIN | U | 0.0012 | U | 0.12 |
| BETA BHC | U | 0.0012 | U | 0.12 |
| DELTA BHC | U | 0.0012 | U | 0.12 |
| HEPTACHLOR EPOXIDE | U | 0.0012 | U | 0.12 |
| ENDOSULFAN I | U | 0.0012 | U | 0.12 |
| GAMMA-CHLORDANE | U | 0.0012 | U | 0.12 |
| ALPHA-CHLORDANE | U | 0.0012 | U | 0.12 |
| 4,4'-DDE | U | 0.0025 | U | 0.25 |
| DIELDRIN | U | 0.0025 | U | 0.25 |
| ENDRIN | U | 0.0025 | U | 0.25 |
| 4,4'-DDD | U | 0.0025 | U | 0.25 |
| ENDOSULFAN II | U | 0.0025 | U | 0.25 |
| 4,4'-DDT | U | 0.0025 | U | 0.25 |
| ENDRIN ALDEHYDE | U | 0.0025 | U | 0.25 |
| ENDOSULFAN SULFATE | U | 0.0025 | U | 0.25 |
| METHOXYCHLOR | U | 0.012 | U | 1.2 |
| ENDRIN KETONE | U | 0.0025 | U | 0.25 |
| TOXAPHENE | U | 0.025 | U | 2.5 |

Table 1.5 (cont) Results of the Analysis for Pesticides in Wipes
WA# SERAS-270, St. John Methyl Bromide Response

Method : EPA SW846/8081B

| | | | | |
|---|---|---|---|---|
| Laboratory Sample Number | WG160586-BLANK | SI2005-1 | SI2005-2 | SI2005-3 |
| Sample Number | Method Blank - 04/01/15 | 55102 | 55105 | 55107 |
| Sample Location | | Lower Water Tank | Lower Fume Hood | Lower Microwave |
| Area | NA | 100 cm² | 100 cm² | 100 cm² |

| Analyte | Result ug/Wipe | RL ug/Wipe | Result ug/cm² | RL ug/cm² | Result ug/cm² | RL ug/cm² | Result ug/cm² | RL ug/cm² |
|---|---|---|---|---|---|---|---|---|
| ALPHA BHC | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| GAMMA BHC | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| HEPTACHLOR | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| ALDRIN | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| BETA BHC | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| DELTA BHC | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| HEPTACHLOR EPOXIDE | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| ENDOSULFAN I | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| GAMMA-CHLORDANE | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| ALPHA-CHLORDANE | U | 0.12 | U | 0.0012 | U | 0.0012 | U | 0.0012 |
| 4,4'-DDE | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| DIELDRIN | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDRIN | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| 4,4'-DDD | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDOSULFAN II | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| 4,4'-DDT | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDRIN ALDEHYDE | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| ENDOSULFAN SULFATE | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| METHOXYCHLOR | U | 1.2 | U | 0.012 | U | 0.012 | U | 0.012 |
| ENDRIN KETONE | U | 0.25 | U | 0.0025 | U | 0.0025 | U | 0.0025 |
| TOXAPHENE | U | 2.5 | U | 0.025 | U | 0.025 | U | 0.025 |

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Table 1.5 (cont) Results of the Analysis for Pesticides in Wipes
WA# SERAS-270, St. John Methyl Bromide Response



Method : EPA SW846/8081B

| Laboratory Sample Number | SI2005-4 | | SI2005-5 | | SI2005-6 | | SI2005-7 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 55109 | | 55111 | | 55122 | | 55124 | |
| Sample Location | Lower Kitchen Counter | | Lower Toilet tank | | Background | | Template Blank | |
| Area | 100 cm² | | 100 cm² | | 100 cm² | | 100 cm² | |
| Analyte | Result ug/cm² | RL ug/cm² | Result ug/cm² | RL ug/cm² | Result ug/cm² | RL ug/cm² | Result ug/Wipe | RL ug/Wipe |
| ALPHA BHC | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| GAMMA BHC | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| HEPTACHLOR | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| ALDRIN | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| BETA BHC | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| DELTA BHC | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| HEPTACHLOR EPOXIDE | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| ENDOSULFAN I | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| GAMMA-CHLORDANE | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| ALPHA-CHLORDANE | U | 0.0012 | U | 0.0012 | U | 0.0012 | U | 0.12 |
| 4,4'-DDE | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.25 |
| DIELDRIN | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.25 |
| ENDRIN | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.25 |
| 4,4'-DDD | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.25 |
| ENDOSULFAN II | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.25 |
| 4,4'-DDT | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.25 |
| ENDRIN ALDEHYDE | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.25 |
| ENDOSULFAN SULFATE | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.25 |
| METHOXYCHLOR | U | 0.012 | U | 0.012 | U | 0.012 | U | 1.2 |
| ENDRIN KETONE | U | 0.0025 | U | 0.0025 | U | 0.0025 | U | 0.25 |
| TOXAPHENE | U | 0.025 | U | 0.025 | U | 0.025 | U | 2.5 |

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Table 1.6 Results of the Analysis for Pesticides in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method : TO-10A

| Laboratory Sample Number | P150331-MB | | P1501256-001 | | P1501256-002 | | P1501256-003 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 03/31/15 | | 55024 | | 55027 | | 55028 | |
| Sample Location | | | BR2 (upper) | | Ambient | | MBR (upper) | |
| Volume Sampled (L) | NA | | 720 | | 720 | | 720 | |
| Analyte | Result µg/sample | RL µg/sample | Result ug/m3 | RL ug/m3 | Result ug/m3 | RL ug/m3 | Result ug/m3 | RL ug/m3 |
| alpha-BHC | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| gamma-BHC (Lindane) | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| beta-BHC | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Heptachlor | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| delta-BHC | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Aldrin | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Heptachlor Epoxide | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| gamma-Chlordane | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| alpha-Chlordane | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Endosulfan I | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| 4,4'-DDE | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Dieldrin | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Endrin | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| 4,4'-DDD | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Endosulfan II | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| 4,4'-DDT | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Endrin Aldehyde | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Endosulfan Sulfate | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Methoxychlor | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |
| Endrin Ketone | U | 0.050 | U | 0.069 | U | 0.069 | U | 0.069 |

Table 1.6 (cont) Results of the Analysis for Pesticides in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method : TO-10A

| Laboratory Sample Number | P1501256-004 | |
|---|---|---|
| Sample Number | 55031 | |
| Sample Location | Kitchen (upper) | |
| Volume Sampled (L) | 720 | |
| Analyte | Result ug/m3 | RL ug/m3 |
| alpha-BHC | U | 0.069 |
| gamma-BHC (Lindane) | U | 0.069 |
| beta-BHC | U | 0.069 |
| Heptachlor | U | 0.069 |
| delta-BHC | U | 0.069 |
| Aldrin | U | 0.069 |
| Heptachlor Epoxide | U | 0.069 |
| gamma-Chlordane | U | 0.069 |
| alpha-Chlordane | U | 0.069 |
| Endosulfan I | U | 0.069 |
| 4,4'-DDE | U | 0.069 |
| Dieldrin | U | 0.069 |
| Endrin | U | 0.069 |
| 4,4'-DDD | U | 0.069 |
| Endosulfan II | U | 0.069 |
| 4,4'-DDT | U | 0.069 |
| Endrin Aldehyde | U | 0.069 |
| Endosulfan Sulfate | U | 0.069 |
| Methoxychlor | U | 0.069 |
| Endrin Ketone | U | 0.069 |

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Table 1.6 (cont) Results of the Analysis for Pesticides in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method : TO-10A

| Laboratory Sample Number | P15010402-MB | P1501307-001 | P1501307-002 |
|---|---|---|---|
| Sample Number | Method Blank 04/02/15 | 55044 | 55045 |
| Sample Location | | Lower Kitchen | Lower Utility Room |
| Volume Sampled (L) | NA | 684 | 720 |

| Analyte | Result µg/sample | RL µg/sample | Result ug/m3 | RL ug/m3 | Result ug/m3 | RL ug/m3 |
|---|---|---|---|---|---|---|
| alpha-BHC | U | 0.050 | U | 0.073 | U | 0.069 |
| gamma-BHC (Lindane) | U | 0.050 | U | 0.073 | U | 0.069 |
| beta-BHC | U | 0.050 | U | 0.073 | U | 0.069 |
| Heptachlor | U | 0.050 | U | 0.073 | U | 0.069 |
| delta-BHC | U | 0.050 | U | 0.073 | U | 0.069 |
| Aldrin | U | 0.050 | U | 0.073 | U | 0.069 |
| Heptachlor Epoxide | U | 0.050 | U | 0.073 | U | 0.069 |
| gamma-Chlordane | U | 0.050 | U | 0.073 | U | 0.069 |
| alpha-Chlordane | U | 0.050 | U | 0.073 | U | 0.069 |
| Endosulfan I | U | 0.050 | U | 0.073 | U | 0.069 |
| 4,4'-DDE | U | 0.050 | U | 0.073 | U | 0.069 |
| Dieldrin | U | 0.050 | U | 0.073 | U | 0.069 |
| Endrin | U | 0.050 | U | 0.073 | U | 0.069 |
| 4,4'-DDD | U | 0.050 | U | 0.073 | U | 0.069 |
| Endosulfan II | U | 0.050 | U | 0.073 | U | 0.069 |
| 4,4'-DDT | U | 0.050 | U | 0.073 | U | 0.069 |
| Endrin Aldehyde | U | 0.050 | U | 0.073 | U | 0.069 |
| Endosulfan Sulfate | U | 0.050 | U | 0.073 | U | 0.069 |
| Methoxychlor | U | 0.050 | U | 0.073 | U | 0.069 |
| Endrin Ketone | U | 0.050 | U | 0.073 | U | 0.069 |

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Table 1.7 .Results of the Analysis for Bromide in Potable Water
WA# SERAS-270, St. John Methyl Bromide Response



Method : EPA SW846/9056A

| Laboratory Sample Number | WG161213 | | SI2004-2 | | SI2004-3 | | SI2004-1 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 04/13/15 | | 55047 | | 55048 | | 55046 | |
| Sample Location | | | UPPER KITCHEN | | TRIP BLANK | | LOWER KITCHEN | |
| Analyte | Result mg/L | RL mg/L | Result mg/L | RL mg/L | Result mg/L | RL mg/L | Result mg/L | RL mg/L |
| Bromide | U | 0.50 | U | 0.50 | U | 0.50 | U | 0.50 |

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Table 1.8 .Results of the Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response



Method : Modified NIOSH 7903

| | | | | |
|---|---|---|---|---|
| Laboratory Sample Number | WG311994-2 | L352507-1 | L352507-2 | L352507-3 |
| Sample Number | Method Blank 03/31/15 | 55006 | 55008 | 55010 |
| Sample Location | | 1D | 2D | 3D |
| Sample Area | NA | 100 cm² | 100 cm² | 100 cm² |

| Analyte | Result µg/wipe | RL µg/wipe | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 |
|---|---|---|---|---|---|---|---|---|
| BROMIDE | U | 10 | U | 0.10 | U | 0.10 | U | 0.10 |

Table 1.8 (cont) .Results of the Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified NIOSH 7903

| | | | | |
|---|---|---|---|---|
| Laboratory Sample Number | L352507-4 | L352507-5 | L352507-6 | L352507-7 |
| Sample Number | 55012 | 55014 | 55016 | 55018 |
| Sample Location | 4D | 5D | 6D | 7D |
| Sample Area | 100 cm² | 100 cm² | 100 cm² | 100 cm² |

| Analyte | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 | Result µg | RL µg | Result µg/cm2 | RL µg/cm2 |
|---|---|---|---|---|---|---|---|---|
| BROMIDE | U | 0.10 | U | 0.10 | U | 0.10 | U | 0.10 |

Table 1.8 (cont) .Results of the Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified NIOSH 7903

| | | |
|---|---|---|
| Laboratory Sample Number | L352507-8 | L352507-9 |
| Sample Number | 55020 | 55022 |
| Sample Location | 8D | Template Blank |
| Sample Area | 100 cm² | NA |

| Analyte | Result µg/cm2 | RL µg/cm2 | Result µg/wipe | RL µg/wipe |
|---|---|---|---|---|
| BROMIDE | U | 0.10 | U | 10 |

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Table 1.8 (cont) .Results of the Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response



Method : Modified NIOSH 7903

| Laboratory Sample Number | WG312245-2 | | L342810-1 | | L342810-2 | | L342810-3 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 04/02/15 | | 55103 | | 55104 | | 55106 | |
| Sample Location | | | Lower Hot Water | | Lower Fume Hood | | Microwave | |
| Sample Area | NA | | 100 cm² | | 100 cm² | | 100 cm² | |
| Analyte | Result µg/wipe | RL µg/wipe | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 |
| BROMIDE | U | 10 | U | 0.10 | U | 0.10 | U | 0.10 |

Table 1.8 (cont) .Results of the Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified NIOSH 7903

| Laboratory Sample Number | L342810-4 | | L342810-5 | | L342810-6 | | L342810-7 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 55108 | | 55110 | | 55121 | | 55123 | |
| Sample Location | Kitchen Counter | | Toilet Tank | | Background | | Template Blank | |
| Sample Area | 100 cm² | | 100 cm² | | 100 cm² | | NA | |
| Analyte | Result µg | RL µg | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 | Result µg/wipe | RL µg/wipe |
| BROMIDE | U | 0.10 | U | 0.10 | U | 0.10 | U | 10 |

Table 1.8 (cont) .Results of the Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified NIOSH 7903

| Laboratory Sample Number | WG313462-2 | | L343973-1 | | L343973-2 | | L343973-3 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 04/16/15 | | 09823 | | 09824 | | 09825 | |
| Sample Location | | | UpJ-Kitchen floor | | UpJ-Kitchen wall | | UpJ-Master wall | |
| Sample Area | NA | | 100 cm² | | 100 cm² | | 100 cm² | |
| Analyte | Result µg/wipe | RL µg/wipe | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 |
| BROMIDE | U | 10 | U | 0.10 | U | 0.10 | U | 0.10 |

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Table 1.8 (cont) .Results of the Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response



Method : Modified NIOSH 7903

| Laboratory Sample Number | L343973-4 | | L343973-5 | | L343973-6 | | L343973-7 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 09826 | | 09827 | | 09828 | | 09829 | |
| Sample Location | UpJ-Master floor | | UpJ-BR floor | | UpJ-BR wall | | Template Blank | |
| Sample Area | 100 cm² | | 100 cm² | | 100 cm² | | NA | |
| Analyte | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 | Result µg/wipe | RL µg/wipe |
| BROMIDE | U | 0.10 | U | 0.10 | U | 0.10 | U | 10 |

Table 1.8 (cont) .Results of the Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified NIOSH 7903

| Laboratory Sample Number | L343973-8 | | L343973-9 | | L343973-10 | | L343973-11 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 09830 | | 09831 | | 09832 | | 09833 | |
| Sample Location | LowJ-Kitchen floor | | LowJ-Kitchen wall | | LowJ-Master floor | | LowJ-Master wall | |
| Sample Area | 100 cm² | | 100 cm² | | 100 cm² | | 100 cm² | |
| Analyte | Result µg/cm2 | RL µg/cm2 | Result µg | RL µg | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 |
| BROMIDE | U | 0.10 | U | 0.10 | U | 0.10 | U | 0.10 |

Table 1.8 (cont) .Results of the Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified NIOSH 7903

| Laboratory Sample Number | L343973-21 | | L343973-13 | | L343973-14 | | WG313462-6 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 09834 | | 09835 | | 09836 | | Method Blank 04/17/15 | |
| Sample Location | LowJ-BR floor | | LowJ-BR wall | | Template Blank | | | |
| Sample Area | 100 cm² | | 100 cm² | | 100 cm² | | NA | |
| Analyte | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 | Result µg/cm2 | RL µg/cm2 | Result µg/wipe | RL µg/wipe |
| BROMIDE | U | 0.10 | U | 0.10 | U | 0.10 | U | 10 |

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Table 1.9a .Results of the Analysis for Methyl Bromide (mg/m3) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response



Method : Modified OSHA PV2040

| Laboratory Sample Number | WG311397-3 | | L342507-10 | | L342507-11 | | L342507-12 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 04/04/15 | | 55023 | | 55025 | | 55026 | |
| Sample Location | | | Kitchen | | BR2 | | BR2 | |
| Volume (L) | NA | | 123.6 | | 698.4 | | 121.2 | |
| Analyte | Result µg | RL µg | Result mg/m3 | RL mg/m3 | Result mg/m3 | RL mg/m3 | Result mg/m3 | RL mg/m3 |
| Methyl Bromide | U | 5.5 | 0.082 | 0.044 | 0.0096 | 0.0079 | 0.054 J- | 0.045 |

Table 1.9a (cont) .Results of the Analysis for Methyl Bromide (mg/m3) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified OSHA PV2040

| Laboratory Sample Number | L342507-13 | | L342507-14 | | L342507-15 | | L342507-16 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 55029 | | 55030 | | 55032 | | 55033 | |
| Sample Location | MBR | | MBR | | Kitchen | | Ambient | |
| Volume (L) | 602.1 | | 117.6 | | 684 | | 651.6 | |
| Analyte | Result mg/m3 | RL mg/m3 | Result mg/m3 | RL mg/m3 | Result mg/m3 | RL mg/m3 | Result mg/m3 | RL mg/m3 |
| Methyl Bromide | 0.012 | 0.0091 | 0.14 J- | 0.047 | 0.022 J- | 0.0080 | U | 0.0084 |

Table 1.9a (cont) .Results of the Analysis for Methyl Bromide (mg/m3) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified OSHA PV2040

| Laboratory Sample Number | L342507-17 | | L342507-18 | |
|---|---|---|---|---|
| Sample Number | 55034 | | 55035 | |
| Sample Location | Field | | Trip | |
| Volume (L) | NA | | NA | |
| Analyte | Result µg | RL µg | Result µg | RL µg |
| Methyl Bromide | U | 5.5 | U | 5.5 |

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Table 1.9a (cont) .Results of the Analysis for Methyl Bromide (mg/m3) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response



Method : Modified OSHA PV2040

| Laboratory Sample Number | WG312553-3 | | L342797-1 | | L342797-2 | | L342797-3 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 04/07/15 | | 55040 | | 55041 | | 55042 | |
| Sample Location | | | Lower Kitchen | | Lower Kit-Low | | Lower Utility Room | |
| Volume (L) | NA | | 691.2 | | 25 | | 626.4 | |
| Analyte | Result µg | RL µg | Result mg/m3 | RL mg/m3 | Result mg/m3 | RL mg/m3 | Result mg/m3 | RL mg/m3 |
| Methyl Bromide | U | 5.5 | 0.029 J- | 0.0079 | 1.3 J- | 0.22 | 0.032 J- | 0.0088 |

Table 1.9a (cont) .Results of the Analysis for Methyl Bromide (mg/m3) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified OSHA PV2040

| Laboratory Sample Number | L342797-4 | | L342797-5 | | L342797-6 | |
|---|---|---|---|---|---|---|
| Sample Number | 55043 | | 55119 | | 55120 | |
| Sample Location | Ambient | | Field | | Trip | |
| Volume (L) | 691.2 | | NA | | NA | |
| Analyte | Result mg/m3 | RL mg/m3 | Result µg | RL µg | Result µg | RL µg |
| Methyl Bromide | U | 0.0079 | U | 5.5 | U | 5.5 |

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Table 1.9b .Results of the Analysis for Methyl Bromide (ppmv) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response



Method : Modified OSHA PV2040

| Laboratory Sample Number | WG311397-3 | | L342507-10 | | L342507-11 | | L342507-12 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 04/04/15 | | 55023 | | 55025 | | 55026 | |
| Sample Location | | | Kitchen | | BR2 | | BR2 | |
| Volume (L) | NA | | 123.6 | | 698.4 | | 121.2 | |
| Analyte | Result µg | RL µg | Result ppmv | RL ppmv | Result ppmv | RL ppmv | Result ppmv | RL ppmv |
| Methyl Bromide | U | 5.5 | 0.021 | 0.011 | 0.0025 | 0.0020 | 0.014 J- | 0.012 |

Table 1.9b (cont) .Results of the Analysis for Methyl Bromide (ppmv) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified OSHA PV2040

| Laboratory Sample Number | L342507-13 | | L342507-14 | | L342507-15 | | L342507-16 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | 55029 | | 55030 | | 55032 | | 55033 | |
| Sample Location | MBR | | MBR | | Kitchen | | Ambient | |
| Volume (L) | 602.1 | | 117.6 | | 684 | | 651.6 | |
| Analyte | Result ppmv | RL ppmv | Result ppmv | RL ppmv | Result ppmv | RL ppmv | Result ppmv | RL ppmv |
| Methyl Bromide | 0.0031 | 0.0023 | 0.036 J- | 0.012 | 0.0057 J- | 0.0021 | U | 0.0022 |

Table 1.9b (cont) .Results of the Analysis for Methyl Bromide (ppmv) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified OSHA PV2040

| Laboratory Sample Number | L342507-17 | | L342507-18 | |
|---|---|---|---|---|
| Sample Number | 55034 | | 55035 | |
| Sample Location | Field | | Trip | |
| Volume (L) | NA | | NA | |
| Analyte | Result µg | RL µg | Result µg | RL µg |
| Methyl Bromide | U | 5.5 | U | 5.5 |

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Table 1.9b (cont) .Results of the Analysis for Methyl Bromide (ppmv) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response



Method : Modified OSHA PV2040

| Laboratory Sample Number | WG312553-3 | | L342797-1 | | L342797-2 | | L342797-3 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 04/07/15 | | 55040 | | 55041 | | 55042 | |
| Sample Location | | | Lower Kitchen | | Lower Kit-Low | | Lower Utility Room | |
| Volume (L) | NA | | 691.2 | | 25 | | 626.4 | |
| Analyte | Result µg | RL µg | Result ppmv | RL ppmv | Result ppmv | RL ppmv | Result ppmv | RL ppmv |
| Methyl Bromide | U | 5.5 | 0.0076 J- | 0.0020 | 0.33 J- | 0.057 | 0.0082 J- | 0.0023 |

Table 1.9b (cont) .Results of the Analysis for Methyl Bromide (ppmv) in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response

Method : Modified OSHA PV2040

| Laboratory Sample Number | L342797-4 | | L342797-5 | | L342797-6 | |
|---|---|---|---|---|---|---|
| Sample Number | 55043 | | 55119 | | 55120 | |
| Sample Location | Ambient | | Field | | Trip | |
| Volume (L) | 691.2 | | NA | | NA | |
| Analyte | Result ppmv | RL ppmv | Result µg | RL µg | Result µg | RL µg |
| Methyl Bromide | U | 0.0020 | U | 5.5 | U | 5.5 |

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Table 2.1 Results of the LCS Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS 032615

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Propylene | 1.00 | 1.20 | 120 | 73 - 135 |
| Dichlorodifluoromethane | 1.00 | 1.11 | 111 | 49 - 130 |
| Chloromethane | 1.00 | 1.28 | 128 | 72 - 139 |
| Dichlorotetrafluoroethane | 1.00 | 0.928 | 93 | 59 - 99 |
| Vinyl Chloride | 1.00 | 1.17 | 117 | 75 - 126 |
| 1,3-Butadiene | 1.00 | 1.04 | 104 | 65 - 113 |
| Bromomethane | 1.00 | 1.19 | 119 | 72 - 134 |
| Chloroethane | 1.00 | 1.18 | 118 | 69 - 129 |
| Acetone | 1.00 | 1.36 | 136 | 71 - 147 |
| Trichlorofluoromethane | 1.00 | 1.10 | 110 | 62 - 129 |
| Isopropyl Alcohol | 1.00 | 1.21 | 121 | 64 - 133 |
| 1,1-Dichloroethene | 1.00 | 1.05 | 105 | 73 - 117 |
| Methylene Chloride | 1.00 | 1.08 | 108 | 71 - 115 |
| Trichlorotrifluoroethane | 1.00 | 1.09 | 109 | 64 - 126 |
| trans-1,2-Dichloroethene | 1.00 | 1.01 | 101 | 74 - 112 |
| 1,1-Dichloroethane | 1.00 | 1.07 | 107 | 76 - 113 |
| MTBE | 1.00 | 0.947 | 95 | 55 - 115 |
| Vinyl Acetate | 1.00 | 0.945 | 95 | 80 - 98 |
| 2-Butanone | 1.00 | 1.11 | 111 | 75 - 118 |
| cis-1,2-Dichloroethene | 1.00 | 0.993 | 99 | 72 - 108 |
| Ethyl Acetate | 1.00 | 1.16 | 116 | 97 - 122 |
| Hexane | 1.00 | 1.02 | 102 | 77 - 110 |
| Chloroform | 1.00 | 1.07 | 107 | 76 - 118 |
| Tetrahydrofuran | 1.00 | 1.08 | 108 | 77 - 116 |
| 1,2-Dichloroethane | 1.00 | 1.05 | 105 | 69 - 116 |
| 1,1,1-Trichloroethane | 1.00 | 1.11 | 111 | 84 - 119 |
| Benzene | 1.00 | 1.07 | 107 | 82 - 113 |
| Carbon Tetrachloride | 1.00 | 1.11 | 111 | 78 - 118 |
| Cyclohexane | 1.00 | 1.08 | 108 | 85 - 114 |
| 1,2-Dichloropropane | 1.00 | 1.09 | 109 | 83 - 119 |
| 1,4-Dioxane | 1.00 | 1.16 | 116 | 53 - 145 |
| Trichloroethene | 1.00 | 1.09 | 109 | 79 - 115 |
| Heptane | 1.00 | 1.10 | 110 | 87 - 122 |
| cis-1,3-Dichloropropene | 1.00 | 1.15 | 115 | 93 - 121 |
| Methyl Isobutyl Ketone | 1.00 | 1.21 | 121 | 86 - 135 |
| trans-1,3-Dichloropropene | 1.00 | 1.05 | 105 | 85 - 112 |
| 1,1,2-Trichloroethane | 1.00 | 1.22 | 122 | 63 - 136 |
| Toluene | 1.00 | 1.15 | 115 | 61 - 125 |
| 2-Hexanone | 1.00 | 1.29 | 129 | 71 - 151 |
| Dibromochloromethane | 1.00 | 1.23 | 123 | 67 - 134 |
| 1,2-Dibromoethane | 1.00 | 1.19 | 119 | 62 - 133 |
| Tetrachloroethene | 1.00 | 1.14 | 114 | 52 - 125 |
| Chlorobenzene | 1.00 | 1.17 | 117 | 59 - 128 |
| Ethylbenzene | 1.00 | 1.14 | 114 | 65 - 125 |
| m&p-Xylene | 2.00 | 2.26 | 113 | 63 - 189 |
| Bromoform | 1.00 | 1.16 | 116 | 62 - 127 |
| Styrene | 1.00 | 1.25 | 125 | 69 - 143 |
| 1,1,2,2-Tetrachloroethane | 1.00 | 1.16 | 116 | 66 - 139 |
| o-Xylene | 1.00 | 1.17 | 117 | 70 - 134 |
| p-Ethyltoluene | 1.00 | 1.16 | 116 | 68 - 127 |
| 1,3,5-Trimethylbenzene | 1.00 | 1.13 | 113 | 66 - 126 |
| 1,2,4-Trimethylbenzene | 1.00 | 1.10 | 110 | 69 - 121 |
| 1,3-Dichlorobenzene | 1.00 | 1.24 | 124 | 63 - 142 |
| 1,4-Dichlorobenzene | 1.00 | 1.25 | 125 | 65 - 142 |
| 1,2-Dichlorobenzene | 1.00 | 1.13 | 113 | 58 - 125 |
| Naphthalene | 1.00 | 1.25 | 125 | 58 - 149 |

*Indicates out of the criteria

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS 040215

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Propylene | 1.00 | 1.20 | 120 | 73 - 148 |
| Dichlorodifluoromethane | 1.00 | 1.17 | 117 | 49 - 140 |
| Chloromethane | 1.00 | 1.27 | 127 | 72 - 146 |
| Dichlorotetrafluoroethane | 1.00 | 0.970 | 97 | 59 - 105 |
| Vinyl Chloride | 1.00 | 1.15 | 115 | 75 - 128 |
| 1,3-Butadiene | 1.00 | 1.01 | 101 | 65 - 117 |
| Bromomethane | 1.00 | 1.26 | 126 | 72 - 139 |
| Chloroethane | 1.00 | 1.20 | 120 | 69 - 133 |
| Acetone | 1.00 | 1.39 | 139 | 71 - 151 |
| Trichlorofluoromethane | 1.00 | 1.19 | 119 | 62 - 129 |
| Isopropyl Alcohol | 1.00 | 1.19 | 119 | 64 - 166 |
| 1,1-Dichloroethene | 1.00 | 1.08 | 108 | 73 - 120 |
| Methylene Chloride | 1.00 | 1.08 | 108 | 71 - 119 |
| Trichlorotrifluoroethane | 1.00 | 1.32 | 132 | 64 - 148 |
| trans-1,2-Dichloroethene | 1.00 | 1.05 | 105 | 74 - 117 |
| 1,1-Dichloroethane | 1.00 | 1.09 | 109 | 76 - 117 |
| MTBE | 1.00 | 1.04 | 104 | 55 - 121 |
| Vinyl Acetate | 1.00 | 0.884 | 88 | 80 - 105 |
| 2-Butanone | 1.00 | 1.12 | 112 | 75 - 122 |
| cis-1,2-Dichloroethene | 1.00 | 1.02 | 102 | 72 - 112 |
| Ethyl Acetate | 1.00 | 1.16 | 116 | 97 - 127 |
| Hexane | 1.00 | 1.04 | 104 | 77 - 115 |
| Chloroform | 1.00 | 1.12 | 112 | 76 - 121 |
| Tetrahydrofuran | 1.00 | 1.11 | 111 | 77 - 123 |
| 1,2-Dichloroethane | 1.00 | 1.05 | 105 | 69 - 115 |
| 1,1,1-Trichloroethane | 1.00 | 1.07 | 107 | 84 - 119 |
| Benzene | 1.00 | 0.995 | 100 | 82 - 113 |
| Carbon Tetrachloride | 1.00 | 1.10 | 110 | 78 - 119 |
| Cyclohexane | 1.00 | 1.05 | 105 | 85 - 115 |
| 1,2-Dichloropropane | 1.00 | 0.999 | 100 | 83 - 120 |
| 1,4-Dioxane | 1.00 | 0.930 | 93 | 53 - 179 |
| Trichloroethene | 1.00 | 1.14 | 114 | 79 - 122 |
| Heptane | 1.00 | 1.00 | 100 | 87 - 122 |
| cis-1,3-Dichloropropene | 1.00 | 1.09 | 109 | 93 - 121 |
| Methyl Isobutyl Ketone | 1.00 | 1.08 | 108 | 86 - 135 |
| trans-1,3-Dichloropropene | 1.00 | 0.992 | 99 | 85 - 112 |
| 1,1,2-Trichloroethane | 1.00 | 1.20 | 120 | 63 - 137 |
| Toluene | 1.00 | 1.15 | 115 | 61 - 126 |
| 2-Hexanone | 1.00 | 1.23 | 123 | 71 - 153 |
| Dibromochloromethane | 1.00 | 1.30 | 130 | 67 - 141 |
| 1,2-Dibromoethane | 1.00 | 1.19 | 119 | 62 - 135 |
| Tetrachloroethene | 1.00 | 1.30 | 130 | 52 - 138 |
| Chlorobenzene | 1.00 | 1.19 | 119 | 59 - 131 |
| Ethylbenzene | 1.00 | 1.14 | 114 | 65 - 125 |
| m&p-Xylene | 2.00 | 2.23 | 112 | 63 - 126 |
| Bromoform | 1.00 | 1.27 | 127 | 62 - 138 |
| Styrene | 1.00 | 1.27 | 127 | 69 - 142 |
| 1,1,2,2-Tetrachloroethane | 1.00 | 1.12 | 112 | 66 - 138 |
| o-Xylene | 1.00 | 1.15 | 115 | 70 - 133 |
| p-Ethyltoluene | 1.00 | 1.17 | 117 | 68 - 128 |
| 1,3,5-Trimethylbenzene | 1.00 | 1.12 | 112 | 66 - 126 |
| 1,2,4-Trimethylbenzene | 1.00 | 1.12 | 112 | 69 - 121 |
| 1,3-Dichlorobenzene | 1.00 | 1.32 | 132 | 63 - 146 |
| 1,4-Dichlorobenzene | 1.00 | 1.31 | 131 | 65 - 147 |
| 1,2-Dichlorobenzene | 1.00 | 1.20 | 120 | 58 - 132 |
| Naphthalene | 1.00 | 1.36 | 136 | 58 - 155 |

*Indicates out of the criteria

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS 040915

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | | QC Limits % Recovery |
|---|---|---|---|---|---|
| Propylene | 1.00 | 1.22 | 122 | | 73 - 148 |
| Dichlorodifluoromethane | 1.00 | 1.01 | 101 | | 49 - 140 |
| Chloromethane | 1.00 | 1.34 | 134 | | 72 - 146 |
| Dichlorotetrafluoroethane | 1.00 | 0.911 | 91 | | 59 - 105 |
| Vinyl Chloride | 1.00 | 1.17 | 117 | | 75 - 128 |
| 1,3-Butadiene | 1.00 | 1.23 | 123 | * | 65 - 117 |
| Bromomethane | 1.00 | 1.14 | 114 | | 72 - 139 |
| Chloroethane | 1.00 | 1.19 | 119 | | 69 - 133 |
| Acetone | 1.00 | 1.49 | 149 | | 71 - 151 |
| Trichlorofluoromethane | 1.00 | 1.05 | 105 | | 62 - 129 |
| Isopropyl Alcohol | 1.00 | 1.40 | 140 | | 64 - 166 |
| 1,1-Dichloroethene | 1.00 | 1.08 | 108 | | 73 - 120 |
| Methylene Chloride | 1.00 | 1.03 | 103 | | 71 - 119 |
| Trichlorotrifluoroethane | 1.00 | 1.07 | 107 | | 64 - 148 |
| trans-1,2-Dichloroethene | 1.00 | 1.04 | 104 | | 74 - 117 |
| 1,1-Dichloroethane | 1.00 | 0.994 | 99 | | 76 - 117 |
| MTBE | 1.00 | 0.987 | 99 | | 55 - 121 |
| Vinyl Acetate | 1.00 | 1.04 | 104 | | 80 - 105 |
| 2-Butanone | 1.00 | 1.20 | 120 | | 75 - 122 |
| cis-1,2-Dichloroethene | 1.00 | 0.989 | 99 | | 72 - 112 |
| Ethyl Acetate | 1.00 | 1.22 | 122 | | 97 - 127 |
| Hexane | 1.00 | 1.02 | 102 | | 77 - 115 |
| Chloroform | 1.00 | 0.965 | 97 | | 76 - 121 |
| Tetrahydrofuran | 1.00 | 1.20 | 120 | | 77 - 123 |
| 1,2-Dichloroethane | 1.00 | 0.981 | 98 | | 69 - 115 |
| 1,1,1-Trichloroethane | 1.00 | 0.928 | 93 | | 84 - 119 |
| Benzene | 1.00 | 0.983 | 98 | | 82 - 113 |
| Carbon Tetrachloride | 1.00 | 0.910 | 91 | | 78 - 119 |
| Cyclohexane | 1.00 | 1.02 | 102 | | 85 - 115 |
| 1,2-Dichloropropane | 1.00 | 1.01 | 101 | | 83 - 120 |
| 1,4-Dioxane | 1.00 | 1.16 | 116 | | 53 - 179 |
| Trichloroethene | 1.00 | 1.03 | 103 | | 79 - 122 |
| Heptane | 1.00 | 1.11 | 111 | | 87 - 122 |
| cis-1,3-Dichloropropene | 1.00 | 1.12 | 112 | | 93 - 121 |
| Methyl Isobutyl Ketone | 1.00 | 1.21 | 121 | | 86 - 135 |
| trans-1,3-Dichloropropene | 1.00 | 1.03 | 103 | | 85 - 112 |
| 1,1,2-Trichloroethane | 1.00 | 0.974 | 97 | | 63 - 137 |
| Toluene | 1.00 | 0.978 | 98 | | 61 - 126 |
| 2-Hexanone | 1.00 | 1.26 | 126 | | 71 - 153 |
| Dibromochloromethane | 1.00 | 0.965 | 97 | | 67 - 141 |
| 1,2-Dibromoethane | 1.00 | 0.989 | 99 | | 62 - 135 |
| Tetrachloroethene | 1.00 | 1.02 | 102 | | 52 - 138 |
| Chlorobenzene | 1.00 | 0.985 | 99 | | 59 - 131 |
| Ethylbenzene | 1.00 | 0.983 | 98 | | 65 - 125 |
| m&p-Xylene | 2.00 | 1.88 | 94 | | 63 - 199 |
| Bromoform | 1.00 | 0.944 | 94 | | 62 - 138 |
| Styrene | 1.00 | 1.10 | 110 | | 69 - 142 |
| 1,1,2,2-Tetrachloroethane | 1.00 | 0.894 | 89 | | 66 - 138 |
| o-Xylene | 1.00 | 0.954 | 95 | | 70 - 133 |
| p-Ethyltoluene | 1.00 | 0.994 | 99 | | 68 - 128 |
| 1,3,5-Trimethylbenzene | 1.00 | 0.909 | 91 | | 66 - 126 |
| 1,2,4-Trimethylbenzene | 1.00 | 0.918 | 92 | | 69 - 121 |
| 1,3-Dichlorobenzene | 1.00 | 0.992 | 99 | | 63 - 146 |
| 1,4-Dichlorobenzene | 1.00 | 1.01 | 101 | | 65 - 147 |
| 1,2-Dichlorobenzene | 1.00 | 0.930 | 93 | | 58 - 132 |
| Naphthalene | 1.00 | 1.28 | 128 | | 58 - 155 |

*Indicates out of the criteria

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS 041015

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | | QC Limits % Recovery |
|---|---|---|---|---|---|
| Propylene | 1.00 | 1.17 | 117 | | 73 - 148 |
| Dichlorodifluoromethane | 1.00 | 1.00 | 100 | | 49 - 140 |
| Chloromethane | 1.00 | 1.28 | 128 | | 72 - 146 |
| Dichlorotetrafluoroethane | 1.00 | 0.902 | 90 | | 59 - 105 |
| Vinyl Chloride | 1.00 | 1.15 | 115 | | 75 - 128 |
| 1,3-Butadiene | 1.00 | 1.18 | 118 | * | 65 - 117 |
| Bromomethane | 1.00 | 1.18 | 118 | | 72 - 139 |
| Chloroethane | 1.00 | 1.18 | 118 | | 69 - 133 |
| Acetone | 1.00 | 1.45 | 145 | | 71 - 151 |
| Trichlorofluoromethane | 1.00 | 1.10 | 110 | | 62 - 129 |
| Isopropyl Alcohol | 1.00 | 1.31 | 131 | | 64 - 166 |
| 1,1-Dichloroethene | 1.00 | 1.14 | 114 | | 73 - 120 |
| Methylene Chloride | 1.00 | 1.07 | 107 | | 71 - 119 |
| Trichlorotrifluoroethane | 1.00 | 1.18 | 118 | | 64 - 148 |
| trans-1,2-Dichloroethene | 1.00 | 1.08 | 108 | | 74 - 117 |
| 1,1-Dichloroethane | 1.00 | 1.03 | 103 | | 76 - 117 |
| MTBE | 1.00 | 1.03 | 103 | | 55 - 121 |
| Vinyl Acetate | 1.00 | 1.03 | 103 | | 80 - 105 |
| 2-Butanone | 1.00 | 1.21 | 121 | | 75 - 122 |
| cis-1,2-Dichloroethene | 1.00 | 1.02 | 102 | | 72 - 112 |
| Ethyl Acetate | 1.00 | 1.21 | 121 | | 97 - 127 |
| Hexane | 1.00 | 1.03 | 103 | | 77 - 115 |
| Chloroform | 1.00 | 1.00 | 100 | | 76 - 121 |
| Tetrahydrofuran | 1.00 | 1.20 | 120 | | 77 - 123 |
| 1,2-Dichloroethane | 1.00 | 0.995 | 100 | | 69 - 115 |
| 1,1,1-Trichloroethane | 1.00 | 0.937 | 94 | | 84 - 119 |
| Benzene | 1.00 | 0.970 | 97 | | 82 - 113 |
| Carbon Tetrachloride | 1.00 | 0.915 | 92 | | 78 - 119 |
| Cyclohexane | 1.00 | 1.03 | 103 | | 85 - 115 |
| 1,2-Dichloropropane | 1.00 | 0.994 | 99 | | 83 - 120 |
| 1,4-Dioxane | 1.00 | 1.17 | 117 | | 53 - 179 |
| Trichloroethene | 1.00 | 1.07 | 107 | | 79 - 122 |
| Heptane | 1.00 | 1.05 | 105 | | 87 - 122 |
| cis-1,3-Dichloropropene | 1.00 | 1.07 | 107 | | 93 - 121 |
| Methyl Isobutyl Ketone | 1.00 | 1.13 | 113 | | 86 - 135 |
| trans-1,3-Dichloropropene | 1.00 | 0.973 | 97 | | 85 - 112 |
| 1,1,2-Trichloroethane | 1.00 | 0.987 | 99 | | 63 - 137 |
| Toluene | 1.00 | 0.976 | 98 | | 61 - 126 |
| 2-Hexanone | 1.00 | 1.17 | 117 | | 71 - 153 |
| Dibromochloromethane | 1.00 | 0.959 | 96 | | 67 - 141 |
| 1,2-Dibromoethane | 1.00 | 0.985 | 99 | | 62 - 135 |
| Tetrachloroethene | 1.00 | 1.07 | 107 | | 52 - 138 |
| Chlorobenzene | 1.00 | 0.989 | 99 | | 59 - 131 |
| Ethylbenzene | 1.00 | 0.976 | 98 | | 65 - 125 |
| m&p-Xylene | 2.00 | 1.87 | 94 | | 63 - 199 |
| Bromoform | 1.00 | 0.938 | 94 | | 62 - 138 |
| Styrene | 1.00 | 1.10 | 110 | | 69 - 142 |
| 1,1,2,2-Tetrachloroethane | 1.00 | 0.877 | 88 | | 66 - 138 |
| o-Xylene | 1.00 | 0.944 | 94 | | 70 - 133 |
| p-Ethyltoluene | 1.00 | 0.997 | 100 | | 68 - 128 |
| 1,3,5-Trimethylbenzene | 1.00 | 0.909 | 91 | | 66 - 126 |
| 1,2,4-Trimethylbenzene | 1.00 | 0.920 | 92 | | 69 - 121 |
| 1,3-Dichlorobenzene | 1.00 | 1.02 | 102 | | 63 - 146 |
| 1,4-Dichlorobenzene | 1.00 | 1.05 | 105 | | 65 - 147 |
| 1,2-Dichlorobenzene | 1.00 | 0.959 | 96 | | 58 - 132 |
| Naphthalene | 1.00 | 1.40 | 140 | | 58 - 155 |

*Indicates out of the criteria

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS 041615

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | | QC Limits % Recovery |
|---|---|---|---|---|---|
| Propylene | 1.00 | 1.18 | 118 | | 73 - 148 |
| Dichlorodifluoromethane | 1.00 | 1.12 | 112 | | 49 - 140 |
| Chloromethane | 1.00 | 1.38 | 138 | | 72 - 146 |
| Dichlorotetrafluoroethane | 1.00 | 1.01 | 101 | | 59 - 105 |
| Vinyl Chloride | 1.00 | 1.27 | 127 | | 75 - 128 |
| 1,3-Butadiene | 1.00 | 1.24 | 124 | * | 65 - 117 |
| Bromomethane | 1.00 | 1.33 | 133 | | 72 - 139 |
| Chloroethane | 1.00 | 1.29 | 129 | | 69 - 133 |
| Acetone | 1.00 | 1.59 | 159 | * | 71 - 151 |
| Trichlorofluoromethane | 1.00 | 1.25 | 125 | | 62 - 129 |
| Isopropyl Alcohol | 1.00 | 1.37 | 137 | | 64 - 166 |
| 1,1-Dichloroethene | 1.00 | 1.16 | 116 | | 73 - 120 |
| Methylene Chloride | 1.00 | 1.07 | 107 | | 71 - 119 |
| Trichlorotrifluoroethane | 1.00 | 1.33 | 133 | | 64 - 148 |
| trans-1,2-Dichloroethene | 1.00 | 1.08 | 108 | | 74 - 117 |
| 1,1-Dichloroethane | 1.00 | 1.07 | 107 | | 76 - 117 |
| MTBE | 1.00 | 1.06 | 106 | | 55 - 121 |
| Vinyl Acetate | 1.00 | 1.01 | 101 | | 80 - 105 |
| 2-Butanone | 1.00 | 1.17 | 117 | | 75 - 122 |
| cis-1,2-Dichloroethene | 1.00 | 1.05 | 105 | | 72 - 112 |
| Ethyl Acetate | 1.00 | 1.19 | 119 | | 97 - 127 |
| Hexane | 1.00 | 1.06 | 106 | | 77 - 115 |
| Chloroform | 1.00 | 1.08 | 108 | | 76 - 121 |
| Tetrahydrofuran | 1.00 | 1.18 | 118 | | 77 - 123 |
| 1,2-Dichloroethane | 1.00 | 1.05 | 105 | | 69 - 115 |
| 1,1,1-Trichloroethane | 1.00 | 0.950 | 95 | | 84 - 119 |
| Benzene | 1.00 | 0.967 | 97 | | 82 - 113 |
| Carbon Tetrachloride | 1.00 | 0.951 | 95 | | 78 - 119 |
| Cyclohexane | 1.00 | 1.01 | 101 | | 85 - 115 |
| 1,2-Dichloropropane | 1.00 | 0.960 | 96 | | 83 - 120 |
| 1,4-Dioxane | 1.00 | 1.17 | 117 | | 53 - 179 |
| Trichloroethene | 1.00 | 1.09 | 109 | | 79 - 122 |
| Heptane | 1.00 | 0.989 | 99 | | 87 - 122 |
| cis-1,3-Dichloropropene | 1.00 | 1.05 | 105 | | 93 - 121 |
| Methyl Isobutyl Ketone | 1.00 | 1.05 | 105 | | 86 - 135 |
| trans-1,3-Dichloropropene | 1.00 | 0.953 | 95 | | 85 - 112 |
| 1,1,2-Trichloroethane | 1.00 | 1.01 | 101 | | 63 - 137 |
| Toluene | 1.00 | 1.00 | 100 | | 61 - 126 |
| 2-Hexanone | 1.00 | 1.10 | 110 | | 71 - 153 |
| Dibromochloromethane | 1.00 | 1.00 | 100 | | 67 - 141 |
| 1,2-Dibromoethane | 1.00 | 1.02 | 102 | | 62 - 135 |
| Tetrachloroethene | 1.00 | 1.14 | 114 | | 52 - 138 |
| Chlorobenzene | 1.00 | 1.03 | 103 | | 59 - 131 |
| Ethylbenzene | 1.00 | 0.988 | 99 | | 65 - 125 |
| m&p-Xylene | 2.00 | 1.90 | 95 | | 63 - 199 |
| Bromoform | 1.00 | 1.03 | 103 | | 62 - 138 |
| Styrene | 1.00 | 1.14 | 114 | | 69 - 142 |
| 1,1,2,2-Tetrachloroethane | 1.00 | 0.910 | 91 | | 66 - 138 |
| o-Xylene | 1.00 | 0.973 | 97 | | 70 - 133 |
| p-Ethyltoluene | 1.00 | 1.04 | 104 | | 68 - 128 |
| 1,3,5-Trimethylbenzene | 1.00 | 0.952 | 95 | | 66 - 126 |
| 1,2,4-Trimethylbenzene | 1.00 | 0.959 | 96 | | 69 - 121 |
| 1,3-Dichlorobenzene | 1.00 | 1.11 | 111 | | 63 - 146 |
| 1,4-Dichlorobenzene | 1.00 | 1.10 | 110 | | 65 - 147 |
| 1,2-Dichlorobenzene | 1.00 | 1.03 | 103 | | 58 - 132 |
| Naphthalene | 1.00 | 1.54 | 154 | | 58 - 155 |

*Indicates out of the criteria

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS 042015

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Propylene | 1.00 | 1.17 | 117 | 73 - 148 |
| Dichlorodifluoromethane | 1.00 | 1.12 | 112 | 49 - 140 |
| Chloromethane | 1.00 | 1.29 | 129 | 72 - 146 |
| Dichlorotetrafluoroethane | 1.00 | 0.981 | 98 | 59 - 105 |
| Vinyl Chloride | 1.00 | 1.19 | 119 | 75 - 128 |
| 1,3-Butadiene | 1.00 | 1.12 | 112 | 65 - 117 |
| Bromomethane | 1.00 | 1.29 | 129 | 72 - 139 |
| Chloroethane | 1.00 | 1.24 | 124 | 69 - 133 |
| Acetone | 1.00 | 1.45 | 145 | 71 - 151 |
| Trichlorofluoromethane | 1.00 | 1.23 | 123 | 62 - 129 |
| Isopropyl Alcohol | 1.00 | 1.27 | 127 | 64 - 166 |
| 1,1-Dichloroethene | 1.00 | 1.12 | 112 | 73 - 120 |
| Methylene Chloride | 1.00 | 1.06 | 106 | 71 - 119 |
| Trichlorotrifluoroethane | 1.00 | 1.39 | 139 | 64 - 148 |
| trans-1,2-Dichloroethene | 1.00 | 1.08 | 108 | 74 - 117 |
| 1,1-Dichloroethane | 1.00 | 1.07 | 107 | 76 - 117 |
| MTBE | 1.00 | 1.08 | 108 | 55 - 121 |
| Vinyl Acetate | 1.00 | 0.979 | 98 | 80 - 105 |
| 2-Butanone | 1.00 | 1.14 | 114 | 75 - 122 |
| cis-1,2-Dichloroethene | 1.00 | 1.04 | 104 | 72 - 112 |
| Ethyl Acetate | 1.00 | 1.16 | 116 | 97 - 127 |
| Hexane | 1.00 | 1.05 | 105 | 77 - 115 |
| Chloroform | 1.00 | 1.09 | 109 | 76 - 121 |
| Tetrahydrofuran | 1.00 | 1.14 | 114 | 77 - 123 |
| 1,2-Dichloroethane | 1.00 | 1.06 | 106 | 69 - 115 |
| 1,1,1-Trichloroethane | 1.00 | 0.920 | 92 | 84 - 119 |
| Benzene | 1.00 | 0.914 | 91 | 82 - 113 |
| Carbon Tetrachloride | 1.00 | 0.925 | 93 | 78 - 119 |
| Cyclohexane | 1.00 | 0.974 | 97 | 85 - 115 |
| 1,2-Dichloropropane | 1.00 | 0.888 | 89 | 83 - 120 |
| 1,4-Dioxane | 1.00 | 1.09 | 109 | 53 - 179 |
| Trichloroethene | 1.00 | 1.07 | 107 | 79 - 122 |
| Heptane | 1.00 | 0.902 | 90 | 87 - 122 |
| cis-1,3-Dichloropropene | 1.00 | 0.997 | 100 | 93 - 121 |
| Methyl Isobutyl Ketone | 1.00 | 0.962 | 96 | 86 - 135 |
| trans-1,3-Dichloropropene | 1.00 | 0.916 | 92 | 85 - 112 |
| 1,1,2-Trichloroethane | 1.00 | 0.973 | 97 | 63 - 137 |
| Toluene | 1.00 | 0.968 | 97 | 61 - 126 |
| 2-Hexanone | 1.00 | 1.03 | 103 | 71 - 153 |
| Dibromochloromethane | 1.00 | 0.987 | 99 | 67 - 141 |
| 1,2-Dibromoethane | 1.00 | 0.994 | 99 | 62 - 135 |
| Tetrachloroethene | 1.00 | 1.15 | 115 | 52 - 138 |
| Chlorobenzene | 1.00 | 1.01 | 101 | 59 - 131 |
| Ethylbenzene | 1.00 | 0.959 | 96 | 65 - 125 |
| m&p-Xylene | 2.00 | 1.84 | 92 | 63 - 199 |
| Bromoform | 1.00 | 1.01 | 101 | 62 - 138 |
| Styrene | 1.00 | 1.10 | 110 | 69 - 142 |
| 1,1,2,2-Tetrachloroethane | 1.00 | 0.862 | 86 | 66 - 138 |
| o-Xylene | 1.00 | 0.930 | 93 | 70 - 133 |
| p-Ethyltoluene | 1.00 | 1.00 | 100 | 68 - 128 |
| 1,3,5-Trimethylbenzene | 1.00 | 0.923 | 92 | 66 - 126 |
| 1,2,4-Trimethylbenzene | 1.00 | 0.927 | 93 | 69 - 121 |
| 1,3-Dichlorobenzene | 1.00 | 1.08 | 108 | 63 - 146 |
| 1,4-Dichlorobenzene | 1.00 | 1.11 | 111 | 65 - 147 |
| 1,2-Dichlorobenzene | 1.00 | 1.01 | 101 | 58 - 132 |
| Naphthalene | 1.00 | 1.47 | 147 | 58 - 155 |

*Indicates out of the criteria

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS 042115

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Propylene | 1.00 | 1.17 | 117 | 73 - 148 |
| Dichlorodifluoromethane | 1.00 | 1.14 | 114 | 49 - 140 |
| Chloromethane | 1.00 | 1.22 | 122 | 72 - 146 |
| Dichlorotetrafluoroethane | 1.00 | 0.947 | 95 | 59 - 105 |
| Vinyl Chloride | 1.00 | 1.15 | 115 | 75 - 128 |
| 1,3-Butadiene | 1.00 | 1.10 | 110 | 65 - 117 |
| Bromomethane | 1.00 | 1.24 | 124 | 72 - 139 |
| Chloroethane | 1.00 | 1.18 | 118 | 69 - 133 |
| Acetone | 1.00 | 1.39 | 139 | 71 - 151 |
| Trichlorofluoromethane | 1.00 | 1.14 | 114 | 62 - 129 |
| Isopropyl Alcohol | 1.00 | 1.22 | 122 | 64 - 166 |
| 1,1-Dichloroethene | 1.00 | 1.08 | 108 | 73 - 120 |
| Methylene Chloride | 1.00 | 1.06 | 106 | 71 - 119 |
| Trichlorotrifluoroethane | 1.00 | 1.32 | 132 | 64 - 148 |
| trans-1,2-Dichloroethene | 1.00 | 1.08 | 108 | 74 - 117 |
| 1,1-Dichloroethane | 1.00 | 1.06 | 106 | 76 - 117 |
| MTBE | 1.00 | 1.06 | 106 | 55 - 121 |
| Vinyl Acetate | 1.00 | 0.981 | 98 | 80 - 105 |
| 2-Butanone | 1.00 | 1.14 | 114 | 75 - 122 |
| cis-1,2-Dichloroethene | 1.00 | 1.03 | 103 | 72 - 112 |
| Ethyl Acetate | 1.00 | 1.18 | 118 | 97 - 127 |
| Hexane | 1.00 | 1.05 | 105 | 77 - 115 |
| Chloroform | 1.00 | 1.07 | 107 | 76 - 121 |
| Tetrahydrofuran | 1.00 | 1.15 | 115 | 77 - 123 |
| 1,2-Dichloroethane | 1.00 | 1.04 | 104 | 69 - 115 |
| 1,1,1-Trichloroethane | 1.00 | 0.934 | 93 | 84 - 119 |
| Benzene | 1.00 | 0.940 | 94 | 82 - 113 |
| Carbon Tetrachloride | 1.00 | 0.931 | 93 | 78 - 119 |
| Cyclohexane | 1.00 | 0.988 | 99 | 85 - 115 |
| 1,2-Dichloropropane | 1.00 | 0.921 | 92 | 83 - 120 |
| 1,4-Dioxane | 1.00 | 1.07 | 107 | 53 - 179 |
| Trichloroethene | 1.00 | 1.09 | 109 | 79 - 122 |
| Heptane | 1.00 | 0.951 | 95 | 87 - 122 |
| cis-1,3-Dichloropropene | 1.00 | 1.03 | 103 | 93 - 121 |
| Methyl Isobutyl Ketone | 1.00 | 1.00 | 100 | 86 - 135 |
| trans-1,3-Dichloropropene | 1.00 | 0.940 | 94 | 85 - 112 |
| 1,1,2-Trichloroethane | 1.00 | 1.01 | 101 | 63 - 137 |
| Toluene | 1.00 | 1.00 | 100 | 61 - 126 |
| 2-Hexanone | 1.00 | 1.08 | 108 | 71 - 153 |
| Dibromochloromethane | 1.00 | 1.01 | 101 | 67 - 141 |
| 1,2-Dibromoethane | 1.00 | 1.02 | 102 | 62 - 135 |
| Tetrachloroethene | 1.00 | 1.18 | 118 | 52 - 138 |
| Chlorobenzene | 1.00 | 1.03 | 103 | 59 - 131 |
| Ethylbenzene | 1.00 | 1.00 | 100 | 65 - 125 |
| m&p-Xylene | 2.00 | 1.93 | 97 | 63 - 199 |
| Bromoform | 1.00 | 1.04 | 104 | 62 - 138 |
| Styrene | 1.00 | 1.16 | 116 | 69 - 142 |
| 1,1,2,2-Tetrachloroethane | 1.00 | 0.891 | 89 | 66 - 138 |
| o-Xylene | 1.00 | 0.975 | 98 | 70 - 133 |
| p-Ethyltoluene | 1.00 | 1.06 | 106 | 68 - 128 |
| 1,3,5-Trimethylbenzene | 1.00 | 0.956 | 96 | 66 - 126 |
| 1,2,4-Trimethylbenzene | 1.00 | 0.958 | 96 | 69 - 121 |
| 1,3-Dichlorobenzene | 1.00 | 1.12 | 112 | 63 - 146 |
| 1,4-Dichlorobenzene | 1.00 | 1.13 | 113 | 65 - 147 |
| 1,2-Dichlorobenzene | 1.00 | 1.03 | 103 | 58 - 132 |
| Naphthalene | 1.00 | 1.39 | 139 | 58 - 155 |

*Indicates out of the criteria

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Table 2.1 (cont) Results of the LCS Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS 050315

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Bromomethane | 1.00 | 1.32 | 132 | 72 - 139 |

*Indicates out of the criteria

Sample ID: LCS 051415

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Bromomethane | 1.00 | 1.31 | 131 | 72 - 139 |

*Indicates out of the criteria

Table 2.1 Results of the LCS Analysis for VOC in Air
WA# SERAS-051415-06

Sample ID: LCS 051615

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Bromomethane | 1.00 | 1.20 | 120 | 72 - 139 |

*Indicates out of the criteria

Sample ID: LCS 051915

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Bromomethane | 1.00 | 1.28 | 128 | 72 - 139 |

*Indicates out of the criteria

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Environmental Response Team/Scientific Engineering, Response and Analytical Services
2890 Woodbridge Avenue, Building 209 Annex
Edison NJ 08837

Table 2.2 Results of the LCS Analysis for VOC in Water
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS BW 040215

| Analyte | LCS Spike Added (µg/L) | LCS Conc. (µg/L) | LCS %Rec | QC Limits % Rec. |
|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 37.8 | 76 | 50 - 126 |
| Chloromethane | 50.0 | 49.6 | 99 | 57 - 117 |
| Vinyl Chloride | 50.0 | 41.2 | 82 | 64 - 118 |
| Bromomethane | 50.0 | 49.7 | 99 | 78 - 121 |
| Chloroethane | 50.0 | 49.5 | 99 | 77 - 124 |
| Trichlorofluoromethane | 50.0 | 39.0 | 78 | 66 - 120 |
| Acetone | 50.0 | 64.6 | 129 | 20 - 200 |
| 1,1-Dichloroethene | 50.0 | 47.8 | 96 | 69 - 146 |
| Methylene Chloride | 50.0 | 50.3 | 101 | 84 - 118 |
| Carbon Disulfide | 50.0 | 52.4 | 105 | 85 - 115 |
| Methyl-t-butyl Ether | 50.0 | 42.9 | 86 | 72 - 125 |
| trans-1,2-Dichloroethene | 50.0 | 49.5 | 99 | 81 - 118 |
| 1,1-Dichloroethane | 50.0 | 49.1 | 98 | 78 - 119 |
| 2-Butanone | 50.0 | 53.9 | 108 | 42 - 200 |
| 2,2-Dichloropropane | 50.0 | 47.2 | 94 | 76 - 134 |
| cis-1,2-Dichloroethene | 50.0 | 49.4 | 99 | 84 - 117 |
| Chloroform | 50.0 | 46.9 | 94 | 83 - 118 |
| 1,1-Dichloropropene | 50.0 | 48.8 | 98 | 82 - 123 |
| 1,2-Dichloroethane | 50.0 | 46.2 | 92 | 82 - 126 |
| 1,1,1-Trichloroethane | 50.0 | 50.0 | 100 | 78 - 125 |
| Carbon Tetrachloride | 50.0 | 47.8 | 96 | 66 - 141 |
| Benzene | 50.0 | 52.4 | 105 | 85 - 119 |
| Trichloroethene | 50.0 | 49.9 | 100 | 81 - 117 |
| 1,2-Dichloropropane | 50.0 | 52.3 | 105 | 83 - 118 |
| Bromodichloromethane | 50.0 | 46.7 | 93 | 84 - 120 |
| Dibromomethane | 50.0 | 49.3 | 99 | 83 - 124 |
| cis-1,3-Dichloropropene | 50.0 | 46.4 | 93 | 86 - 115 |
| trans-1,3-Dichloropropen | 50.0 | 48.9 | 98 | 84 - 128 |
| 1,1,2-Trichloroethane | 50.0 | 51.1 | 102 | 87 - 120 |
| 1,3-Dichloropropane | 50.0 | 49.4 | 99 | 86 - 118 |
| Dibromochloromethane | 50.0 | 46.0 | 92 | 81 - 117 |
| 1,2-Dibromoethane | 50.0 | 49.6 | 99 | 85 - 120 |
| Bromoform | 50.0 | 44.7 | 89 | 76 - 119 |
| 4-Methyl-2-Pentanone | 50.0 | 47.5 | 95 | 71 - 118 |
| Toluene | 50.0 | 49.9 | 100 | 88 - 112 |
| 2-Hexanone | 50.0 | 50.4 | 101 | 61 - 171 |
| Tetrachloroethene | 50.0 | 49.3 | 99 | 84 - 120 |
| Chlorobenzene | 50.0 | 48.7 | 97 | 88 - 124 |
| 1,1,1,2-Tetrachloroethane | 50.0 | 47.4 | 95 | 89 - 118 |
| Ethylbenzene | 50.0 | 49.5 | 99 | 87 - 119 |
| p&m-Xylene | 100.0 | 96.7 | 97 | 86 - 125 |
| o-Xylene | 50.0 | 47.9 | 96 | 82 - 134 |
| Styrene | 50.0 | 49.8 | 100 | 85 - 121 |
| Isopropylbenzene | 50.0 | 48.2 | 96 | 78 - 142 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 49.8 | 100 | 82 - 125 |
| 1,2,3-Trichloropropane | 50.0 | 46.2 | 92 | 82 - 126 |
| n-Propylbenzene | 50.0 | 48.8 | 98 | 80 - 139 |
| Bromobenzene | 50.0 | 49.4 | 99 | 88 - 121 |
| 1,3,5-Trimethylbenzene | 50.0 | 48.4 | 97 | 81 - 127 |
| 2-Chlorotoluene | 50.0 | 50.8 | 102 | 78 - 138 |
| 4-Chlorotoluene | 50.0 | 45.5 | 91 | 80 - 146 |
| tert-Butylbenzene | 50.0 | 48.6 | 97 | 75 - 146 |
| 1,2,4-Trimethylbenzene | 50.0 | 49.4 | 99 | 82 - 128 |
| sec-Butylbenzene | 50.0 | 49.3 | 99 | 72 - 152 |
| p-Isopropyltoluene | 50.0 | 49.0 | 98 | 74 - 145 |
| 1,3-Dichlorobenzene | 50.0 | 48.5 | 97 | 81 - 139 |
| 1,4-Dichlorobenzene | 50.0 | 50.6 | 101 | 84 - 127 |
| n-Butylbenzene | 50.0 | 51.3 | 103 | 76 - 139 |
| 1,2-Dichlorobenzene | 50.0 | 49.4 | 99 | 82 - 138 |
| 1,2-Dibromo-3-chloroprop | 50.0 | 45.0 | 90 | 59 - 148 |
| 1,2,4-Trichlorobenzene | 50.0 | 52.1 | 104 | 62 - 150 |
| Hexachlorobutadiene | 50.0 | 53.0 | 106 | 20 - 200 |
| Naphthalene | 50.0 | 47.7 | 95 | 57 - 150 |
| 1,2,3-Trichlorobenzene | 50.0 | 51.9 | 104 | 50 - 162 |

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Table 2.3 Results of the LCS/LCSD for Pesticides in Wipes
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: WG160524-LCS 03/31/15

| Analyte | LCS/LCSD spike amount ug/Wipe | LCS Result ug/Wipe | LCS % Recovery | LCSD Result ug/Wipe | LCSD % Recovery | %RPD | QC Limits %Recovery | QC Limits RPD |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 2.50 | 2.93 | 117 | 2.96 | 118 | 1 | 50-150 | <50 |
| 4,4'-DDE | 2.50 | 3.08 | 123 | 3.11 | 124 | 1 | 50-150 | <50 |
| 4,4'-DDT | 2.50 | 2.95 | 118 | 2.98 | 119 | 1 | 50-150 | <50 |
| ALDRIN | 2.50 | 3.12 | 125 | 3.07 | 123 | 2 | 50-150 | <50 |
| ALPHA BHC | 2.50 | 3.07 | 123 | 3.08 | 123 | 0 | 50-150 | <50 |
| ALPHA-CHLORDANE | 2.50 | 3.04 | 122 | 3.08 | 123 | 1 | 50-150 | <50 |
| BETA BHC | 2.50 | 3.10 | 124 | 3.08 | 123 | 1 | 50-150 | <50 |
| DELTA BHC | 2.50 | 3.00 | 120 | 3.05 | 122 | 2 | 50-150 | <50 |
| DIELDRIN | 2.50 | 3.03 | 121 | 3.06 | 122 | 1 | 50-150 | <50 |
| ENDOSULFAN I | 2.50 | 3.04 | 122 | 3.03 | 121 | 0 | 50-150 | <50 |
| ENDOSULFAN II | 2.50 | 3.08 | 123 | 3.08 | 123 | 0 | 50-150 | <50 |
| ENDOSULFAN SULFATE | 2.50 | 2.76 | 110 | 2.80 | 112 | 1 | 50-150 | <50 |
| ENDRIN | 2.50 | 3.01 | 120 | 2.98 | 119 | 1 | 50-150 | <50 |
| ENDRIN ALDEHYDE | 2.50 | 3.04 | 122 | 3.05 | 122 | 0 | 50-150 | <50 |
| ENDRIN KETONE | 2.50 | 2.92 | 117 | 2.91 | 116 | 0 | 50-150 | <50 |
| GAMMA BHC | 2.50 | 3.01 | 120 | 3.03 | 121 | 1 | 50-150 | <50 |
| GAMMA-CHLORDANE | 2.50 | 3.04 | 122 | 3.08 | 123 | 1 | 50-150 | <50 |
| HEPTACHLOR | 2.50 | 3.08 | 123 | 3.09 | 124 | 0 | 50-150 | <50 |
| HEPTACHLOR EPOXIDE | 2.50 | 3.13 | 125 | 3.16 | 126 | 1 | 50-150 | <50 |
| METHOXYCHLOR | 2.50 | 2.96 | 118 | 2.97 | 119 | 0 | 50-150 | <50 |

Table 2.3 (cont) Results of the LCS/LCSD for Pesticides in Wipes
WA# SERAS-270, St. John Methyl Bromide Response

Sample ID: WG160586-LCS 04/01/15

| Analyte | LCS/LCSD spike amount ug/Wipe | LCS Result ug/Wipe | LCS % Recovery | LCSD Result ug/Wipe | LCSD % Recovery | %RPD | QC Limits %Recovery | QC Limits RPD |
|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 2.50 | 1.83 | 73.2 | 2.41 | 96.4 | 27 | 50-150 | <50 |
| 4,4'-DDE | 2.50 | 1.92 | 76.8 | 2.53 | 101 | 27 | 50-150 | <50 |
| 4,4'-DDT | 2.50 | 1.80 | 72.0 | 2.50 | 100 | 33 | 50-150 | <50 |
| ALDRIN | 2.50 | 1.95 | 78.0 | 2.54 | 102 | 26 | 50-150 | <50 |
| ALPHA BHC | 2.50 | 1.91 | 76.4 | 2.53 | 101 | 28 | 50-150 | <50 |
| ALPHA-CHLORDANE | 2.50 | 1.84 | 73.6 | 2.51 | 100 | 31 | 50-150 | <50 |
| BETA BHC | 2.50 | 1.89 | 75.6 | 2.54 | 102 | 29 | 50-150 | <50 |
| DELTA BHC | 2.50 | 1.88 | 75.2 | 2.53 | 101 | 29 | 50-150 | <50 |
| DIELDRIN | 2.50 | 1.88 | 75.2 | 2.53 | 101 | 29 | 50-150 | <50 |
| ENDOSULFAN I | 2.50 | 1.92 | 76.8 | 2.51 | 100 | 27 | 50-150 | <50 |
| ENDOSULFAN II | 2.50 | 1.91 | 76.4 | 2.61 | 104 | 31 | 50-150 | <50 |
| ENDOSULFAN SULFATE | 2.50 | 1.82 | 72.8 | 2.39 | 95.6 | 27 | 50-150 | <50 |
| ENDRIN | 2.50 | 1.88 | 75.2 | 2.47 | 98.8 | 27 | 50-150 | <50 |
| ENDRIN ALDEHYDE | 2.50 | 1.93 | 77.2 | 2.54 | 102 | 27 | 50-150 | <50 |
| ENDRIN KETONE | 2.50 | 1.81 | 72.4 | 2.47 | 98.8 | 31 | 50-150 | <50 |
| GAMMA BHC | 2.50 | 1.87 | 74.8 | 2.49 | 99.6 | 28 | 50-150 | <50 |
| GAMMA-CHLORDANE | 2.50 | 1.90 | 76.0 | 2.50 | 100 | 27 | 50-150 | <50 |
| HEPTACHLOR | 2.50 | 1.87 | 74.8 | 2.47 | 98.8 | 28 | 50-150 | <50 |
| HEPTACHLOR EPOXIDE | 2.50 | 1.97 | 78.8 | 2.63 | 105 | 29 | 50-150 | <50 |
| METHOXYCHLOR | 2.50 | 1.80 | 72.0 | 2.42 | 96.8 | 29 | 50-150 | <50 |

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Table 2.4 Results of the LCS/LCSD for Pesticides in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS/LCSD 03/31/15

| Analyte | LCS/LCSD spike amount ug/mL | LCS Result ug/mL | LCS % Recovery | LCSD Result ug/mL | LCSD % Recovery | %RPD | QC Limits. % Recovery | QC Limits. %RPD |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 100 | 91.7 | 92 | 86.6 | 87 | 6 | 70-130 | 15 |
| gamma-BHC (Lindane) | 100 | 90.9 | 91 | 88.5 | 89 | 3 | 70-130 | 15 |
| beta-BHC | 100 | 78.6 | 79 | 77.5 | 78 | 1 | 70-130 | 15 |
| Heptachlor | 100 | 83.2 | 83 | 86.4 | 86 | 4 | 70-130 | 15 |
| delta-BHC | 100 | 95.2 | 95 | 93.2 | 93 | 2 | 70-130 | 15 |
| Aldrin | 100 | 84.7 | 85 | 80.3 | 80 | 5 | 70-130 | 15 |
| Heptachlor Epoxide | 100 | 90.2 | 90 | 88.4 | 88 | 2 | 70-130 | 15 |
| gamma-Chlordane | 100 | 109 | 109 | 99.4 | 99 | 9 | 70-130 | 15 |
| alpha-Chlordane | 100 | 92.0 | 92 | 88.6 | 89 | 4 | 70-130 | 15 |
| Endosulfan I | 100 | 91.8 | 92 | 88.8 | 89 | 3 | 70-130 | 15 |
| 4,4'-DDE | 100 | 95.1 | 95 | 92.1 | 92 | 3 | 70-130 | 15 |
| Dieldrin | 100 | 94.7 | 95 | 91.8 | 92 | 3 | 70-130 | 15 |
| Endrin | 100 | 107 | 107 | 110 | 110 | 3 | 70-130 | 15 |
| 4,4'-DDD | 100 | 105 | 105 | 102 | 102 | 3 | 70-130 | 15 |
| Endosulfan II | 100 | 98.3 | 98 | 96.5 | 97 | 2 | 70-130 | 15 |
| 4,4'-DDT | 100 | 106 | 106 | 116 | 116 | 9 | 70-130 | 15 |
| Endrin Aldehyde | 100 | 89.7 | 90 | 88.7 | 89 | 1 | 70-130 | 15 |
| Endosulfan Sulfate | 100 | 99.2 | 99 | 97.7 | 98 | 2 | 70-130 | 15 |
| Methoxychlor | 100 | 104 | 104 | 104 | 104 | 0 | 70-130 | 15 |
| Endrin Ketone | 100 | 98.5 | 99 | 96 | 96 | 3 | 70-130 | 15 |

Table 2.4 (cont) Results of the LCS/LCSD for Pesticides in Air
WA# SERAS-270, St. John Methyl Bromide Response

Sample ID: LCS/LCSD 04/02/15

| Analyte | LCS/LCSD spike amount ug/mL | LCS Result ug/mL | LCS % Recovery | LCSD Result ug/mL | LCSD % Recovery | %RPD | QC Limits. % Recovery | QC Limits. %RPD |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 100 | 103 | 103 | 109 | 109 | 6 | 70-130 | 15 |
| gamma-BHC (Lindane) | 100 | 106 | 106 | 112 | 112 | 6 | 70-130 | 15 |
| beta-BHC | 100 | 92.7 | 93 | 97.1 | 97 | 5 | 70-130 | 15 |
| Heptachlor | 100 | 103 | 103 | 108 | 108 | 5 | 70-130 | 15 |
| delta-BHC | 100 | 108 | 108 | 114 | 114 | 5 | 70-130 | 15 |
| Aldrin | 100 | 98.6 | 99 | 105 | 105 | 6 | 70-130 | 15 |
| Heptachlor Epoxide | 100 | 102 | 102 | 105 | 105 | 3 | 70-130 | 15 |
| gamma-Chlordane | 100 | 98.6 | 99 | 104 | 104 | 5 | 70-130 | 15 |
| alpha-Chlordane | 100 | 97.5 | 98 | 103 | 103 | 5 | 70-130 | 15 |
| Endosulfan I | 100 | 101 | 101 | 106 | 106 | 5 | 70-130 | 15 |
| 4,4'-DDE | 100 | 104 | 104 | 109 | 109 | 5 | 70-130 | 15 |
| Dieldrin | 100 | 103 | 103 | 107 | 107 | 4 | 70-130 | 15 |
| Endrin | 100 | 106 | 106 | 113 | 113 | 6 | 70-130 | 15 |
| 4,4'-DDD | 100 | 117 | 117 | 121 | 121 | 3 | 70-130 | 15 |
| Endosulfan II | 100 | 104 | 104 | 109 | 109 | 5 | 70-130 | 15 |
| 4,4'-DDT | 100 | 99.9 | 100 | 105 | 105 | 5 | 70-130 | 15 |
| Endrin Aldehyde | 100 | 93.1 | 93 | 96.2 | 96 | 3 | 70-130 | 15 |
| Endosulfan Sulfate | 100 | 105 | 105 | 110 | 110 | 5 | 70-130 | 15 |
| Methoxychlor | 100 | 105 | 105 | 109 | 109 | 4 | 70-130 | 15 |
| Endrin Ketone | 100 | 108 | 108 | 113 | 113 | 5 | 70-130 | 15 |

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Table 2.5 Results of the LCS Analysis for Bromide in Potable Water
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: WG161213-LCS (4/13/15)

| Analyte | Conc. Added (mg/L) | Conc. Recovered (mg/L) | LCS %Rec | QC Limits %Rec. |
|---|---|---|---|---|
| Bromide | 3.75 | 3.67 | 98 | 90-110 |

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Table 2.6 Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response

Sample ID: 55001



| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Propylene | 0.265 | 0.230 | 14 | ≤25 |
| Dichlorodifluoromethane | 0.279 | 0.244 | 13 | ≤25 |
| Chloromethane | 0.852 | 0.874 | 3 | ≤25 |
| Dichlorotetrafluoroethane | U | U | NC | ≤25 |
| Vinyl Chloride | U | U | NC | ≤25 |
| 1,3-Butadiene | U | U | NC | ≤25 |
| Bromomethane | 1.04 | 1.28 | 21 | ≤25 |
| Chloroethane | U | U | NC | ≤25 |
| Acetone | 2.23 | 2.36 | 6 | ≤25 |
| Trichlorofluoromethane | 0.239 | 0.273 | 13 | ≤25 |
| Isopropyl Alcohol | U | U | NC | ≤25 |
| 1,1-Dichloroethene | U | U | NC | ≤25 |
| Methylene Chloride | 0.0716 | 0.0829 | 15 | ≤25 |
| Trichlorotrifluoroethane | 0.0892 | 0.107 | 18 | ≤25 |
| trans-1,2-Dichloroethene | U | U | NC | ≤25 |
| 1,1-Dichloroethane | U | U | NC | ≤25 |
| MTBE | U | U | NC | ≤25 |
| Vinyl Acetate | 0.172 | 0.191 | 10 | ≤25 |
| 2-Butanone | 0.111 | 0.110 | 0.9 | ≤25 |
| cis-1,2-Dichloroethene | U | U | NC | ≤25 |
| Ethyl Acetate | U | U | NC | ≤25 |
| Hexane | 0.0240 | 0.0259 | 8 | ≤25 |
| Chloroform | U | U | NC | ≤25 |
| Tetrahydrofuran | U | U | NC | ≤25 |
| 1,2-Dichloroethane | U | U | NC | ≤25 |
| 1,1,1-Trichloroethane | U | U | NC | ≤25 |
| Benzene | 0.0303 | 0.0331 | 9 | ≤25 |
| Carbon Tetrachloride | 0.0724 | 0.0792 | 9 | ≤25 |
| Cyclohexane | U | U | NC | ≤25 |
| 1,2-Dichloropropane | U | U | NC | ≤25 |
| 1,4-Dioxane | U | U | NC | ≤25 |
| Trichloroethene | U | U | NC | ≤25 |
| Heptane | U | U | NC | ≤25 |
| cis-1,3-Dichloropropene | U | U | NC | ≤25 |
| Methyl Isobutyl Ketone | U | U | NC | ≤25 |
| trans-1,3-Dichloropropene | U | U | NC | ≤25 |
| 1,1,2-Trichloroethane | U | U | NC | ≤25 |
| Toluene | 0.0423 | 0.0463 | 9 | ≤25 |
| 2-Hexanone | U | U | NC | ≤25 |
| Dibromochloromethane | U | U | NC | ≤25 |
| 1,2-Dibromoethane | U | U | NC | ≤25 |
| Tetrachloroethene | U | U | NC | ≤25 |
| Chlorobenzene | U | U | NC | ≤25 |
| Ethylbenzene | U | U | NC | ≤25 |
| m&p-Xylene | U | 0.0249 | NC | ≤25 |
| Bromoform | U | U | NC | ≤25 |
| Styrene | U | U | NC | ≤25 |
| 1,1,2,2-Tetrachloroethane | U | U | NC | ≤25 |
| o-Xylene | U | U | NC | ≤25 |
| p-Ethyltoluene | U | U | NC | ≤25 |
| 1,3,5-Trimethylbenzene | U | U | NC | ≤25 |
| 1,2,4-Trimethylbenzene | U | 0.0218 | NC | ≤25 |
| 1,3-Dichlorobenzene | U | U | NC | ≤25 |
| 1,4-Dichlorobenzene | U | U | NC | ≤25 |
| 1,2-Dichlorobenzene | U | U | NC | ≤25 |
| Naphthalene | U | U | NC | ≤25 |

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Table 2.6 (cont) Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: 55118

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Propylene | 0.573 | 0.596 | 4 | ≤25 |
| Dichlorodifluoromethane | 0.589 | 0.554 | 6 | ≤25 |
| Chloromethane | 0.878 | 0.827 | 6 | ≤25 |
| Dichlorotetrafluoroethane | U | U | NC | ≤25 |
| Vinyl Chloride | U | U | NC | ≤25 |
| 1,3-Butadiene | U | U | NC | ≤25 |
| Bromomethane | U | U | NC | ≤25 |
| Chloroethane | U | U | NC | ≤25 |
| Acetone | 20.8 | 20.5 | 1 | ≤25 |
| Trichlorofluoromethane | 0.243 | 0.246 | 1 | ≤25 |
| Isopropyl Alcohol | 5.55 | 5.37 | 3 | ≤25 |
| 1,1-Dichloroethene | U | U | NC | ≤25 |
| Methylene Chloride | U | U | NC | ≤25 |
| Trichlorotrifluoroethane | U | U | NC | ≤25 |
| trans-1,2-Dichloroethene | U | U | NC | ≤25 |
| 1,1-Dichloroethane | U | U | NC | ≤25 |
| MTBE | U | U | NC | ≤25 |
| Vinyl Acetate | 0.167 | 0.131 | 24 | ≤25 |
| 2-Butanone | 0.546 | 0.477 | 13 | ≤25 |
| cis-1,2-Dichloroethene | U | U | NC | ≤25 |
| Ethyl Acetate | 0.453 | 0.456 | 0.7 | ≤25 |
| Hexane | 0.505 | 0.496 | 2 | ≤25 |
| Chloroform | 0.178 | 0.188 | 5 | ≤25 |
| Tetrahydrofuran | U | 0.166 | NC | ≤25 |
| 1,2-Dichloroethane | 0.843 | 0.823 | 2 | ≤25 |
| 1,1,1-Trichloroethane | U | U | NC | ≤25 |
| Benzene | U | U | NC | ≤25 |
| Carbon Tetrachloride | U | U | NC | ≤25 |
| Cyclohexane | U | U | NC | ≤25 |
| 1,2-Dichloropropane | U | U | NC | ≤25 |
| 1,4-Dioxane | U | U | NC | ≤25 |
| Trichloroethene | U | U | NC | ≤25 |
| Heptane | U | U | NC | ≤25 |
| cis-1,3-Dichloropropene | U | U | NC | ≤25 |
| Methyl Isobutyl Ketone | U | U | NC | ≤25 |
| trans-1,3-Dichloropropene | U | U | NC | ≤25 |
| 1,1,2-Trichloroethane | U | U | NC | ≤25 |
| Toluene | 0.693 | 0.672 | 3 | ≤25 |
| 2-Hexanone | U | U | NC | ≤25 |
| Dibromochloromethane | U | U | NC | ≤25 |
| 1,2-Dibromoethane | U | U | NC | ≤25 |
| Tetrachloroethene | U | U | NC | ≤25 |
| Chlorobenzene | U | U | NC | ≤25 |
| Ethylbenzene | U | U | NC | ≤25 |
| m&p-Xylene | 0.127 | U | NC | ≤25 |
| Bromoform | U | U | NC | ≤25 |
| Styrene | 0.303 | 0.299 | 1 | ≤25 |
| 1,1,2,2-Tetrachloroethane | U | U | NC | ≤25 |
| o-Xylene | U | U | NC | ≤25 |
| p-Ethyltoluene | U | U | NC | ≤25 |
| 1,3,5-Trimethylbenzene | U | U | NC | ≤25 |
| 1,2,4-Trimethylbenzene | U | U | NC | ≤25 |
| 1,3-Dichlorobenzene | U | U | NC | ≤25 |
| 1,4-Dichlorobenzene | U | U | NC | ≤25 |
| 1,2-Dichlorobenzene | U | U | NC | ≤25 |
| Naphthalene | U | U | NC | ≤25 |

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Table 2.6 (cont) Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: P001-IA-U-140405-07

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Propylene | 6.14 | 6.06 | 1 | ≤25 |
| Dichlorodifluoromethane | 0.447 | 0.427 | 5 | ≤25 |
| Chloromethane | 4.31 | 4.14 | 4 | ≤25 |
| Dichlorotetrafluoroethane | U | U | NC | ≤25 |
| Vinyl Chloride | U | U | NC | ≤25 |
| 1,3-Butadiene | U | U | NC | ≤25 |
| Bromomethane | 22.6 | 21.1 | 7 | ≤25 |
| Chloroethane | U | U | NC | ≤25 |
| Acetone | 58.7 | 58.4 | 1 | ≤25 |
| Trichlorofluoromethane | 0.210 | 0.193 | 8 | ≤25 |
| Isopropyl Alcohol | U | U | NC | ≤25 |
| 1,1-Dichloroethene | U | U | NC | ≤25 |
| Methylene Chloride | 0.122 | 0.130 | 6 | ≤25 |
| Trichlorotrifluoroethane | U | U | NC | ≤25 |
| trans-1,2-Dichloroethene | U | U | NC | ≤25 |
| 1,1-Dichloroethane | U | U | NC | ≤25 |
| MTBE | U | U | NC | ≤25 |
| Vinyl Acetate | U | U | NC | ≤25 |
| 2-Butanone | 2.95 | 3.15 | 7 | ≤25 |
| cis-1,2-Dichloroethene | U | U | NC | ≤25 |
| Ethyl Acetate | 1.75 | 1.77 | 1 | ≤25 |
| Hexane | 1.09 | 1.08 | 1 | ≤25 |
| Chloroform | 0.108 | 0.104 | 4 | ≤25 |
| Tetrahydrofuran | 1.32 | 1.34 | 2 | ≤25 |
| 1,2-Dichloroethane | 12.3 | 12.1 | 2 | ≤25 |
| 1,1,1-Trichloroethane | U | U | NC | ≤25 |
| Benzene | 0.102 | 0.107 | 5 | ≤25 |
| Carbon Tetrachloride | U | U | NC | ≤25 |
| Cyclohexane | U | U | NC | ≤25 |
| 1,2-Dichloropropane | U | U | NC | ≤25 |
| 1,4-Dioxane | U | U | NC | ≤25 |
| Trichloroethene | U | U | NC | ≤25 |
| Heptane | 0.222 | 0.219 | 1 | ≤25 |
| cis-1,3-Dichloropropene | U | U | NC | ≤25 |
| Methyl Isobutyl Ketone | 0.149 | 0.166 | 11 | ≤25 |
| trans-1,3-Dichloropropene | U | U | NC | ≤25 |
| 1,1,2-Trichloroethane | U | U | NC | ≤25 |
| Toluene | 1.39 | 1.37 | 1 | ≤25 |
| 2-Hexanone | 0.111 | U | NC | ≤25 |
| Dibromochloromethane | U | U | NC | ≤25 |
| 1,2-Dibromoethane | U | U | NC | ≤25 |
| Tetrachloroethene | U | U | NC | ≤25 |
| Chlorobenzene | U | U | NC | ≤25 |
| Ethylbenzene | 0.965 | 0.956 | 1 | ≤25 |
| m&p-Xylene | 0.992 | 0.998 | 0 | ≤25 |
| Bromoform | U | U | NC | ≤25 |
| Styrene | 4.20 | 4.23 | 1 | ≤25 |
| 1,1,2,2-Tetrachloroethane | U | U | NC | ≤25 |
| o-Xylene | 0.465 | 0.458 | 2 | ≤25 |
| p-Ethyltoluene | U | U | NC | ≤25 |
| 1,3,5-Trimethylbenzene | U | U | NC | ≤25 |
| 1,2,4-Trimethylbenzene | 0.160 | 0.161 | 1 | ≤25 |
| 1,3-Dichlorobenzene | U | U | NC | ≤25 |
| 1,4-Dichlorobenzene | U | U | NC | ≤25 |
| 1,2-Dichlorobenzene | U | U | NC | ≤25 |
| Naphthalene | 0.126 | 0.141 | 11 | ≤25 |

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Table 2.6 (cont) Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response

Sample ID: 09822



| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Propylene | U | U | NC | ≤25 |
| Dichlorodifluoromethane | 0.481 | 0.461 | 4 | ≤25 |
| Chloromethane | 0.708 | 0.743 | 5 | ≤25 |
| Dichlorotetrafluoroethane | U | U | NC | ≤25 |
| Vinyl Chloride | U | U | NC | ≤25 |
| 1,3-Butadiene | U | U | NC | ≤25 |
| Bromomethane | 0.457 | 0.479 | 5 | ≤25 |
| Chloroethane | U | U | NC | ≤25 |
| Acetone | 10.5 | 10.8 | 3 | ≤25 |
| Trichlorofluoromethane | 0.234 | 0.229 | 2 | ≤25 |
| Isopropyl Alcohol | 3.92 | 3.97 | 1 | ≤25 |
| 1,1-Dichloroethene | U | U | NC | ≤25 |
| Methylene Chloride | U | U | NC | ≤25 |
| Trichlorotrifluoroethane | U | U | NC | ≤25 |
| trans-1,2-Dichloroethene | U | U | NC | ≤25 |
| 1,1-Dichloroethane | U | U | NC | ≤25 |
| MTBE | U | U | NC | ≤25 |
| Vinyl Acetate | U | 0.137 | NC | ≤25 |
| 2-Butanone | 0.406 | 0.445 | 9 | ≤25 |
| cis-1,2-Dichloroethene | U | U | NC | ≤25 |
| Ethyl Acetate | U | U | NC | ≤25 |
| Hexane | U | U | NC | ≤25 |
| Chloroform | U | U | NC | ≤25 |
| Tetrahydrofuran | 0.241 | 0.297 | 23 | ≤25 |
| 1,2-Dichloroethane | 0.466 | 0.424 | 9 | ≤25 |
| 1,1,1-Trichloroethane | U | U | NC | ≤25 |
| Benzene | U | U | NC | ≤25 |
| Carbon Tetrachloride | U | U | NC | ≤25 |
| Cyclohexane | U | U | NC | ≤25 |
| 1,2-Dichloropropane | U | U | NC | ≤25 |
| 1,4-Dioxane | U | U | NC | ≤25 |
| Trichloroethene | U | U | NC | ≤25 |
| Heptane | U | U | NC | ≤25 |
| cis-1,3-Dichloropropene | U | U | NC | ≤25 |
| Methyl Isobutyl Ketone | U | U | NC | ≤25 |
| trans-1,3-Dichloropropene | U | U | NC | ≤25 |
| 1,1,2-Trichloroethane | U | U | NC | ≤25 |
| Toluene | 0.134 | 0.136 | 1 | ≤25 |
| 2-Hexanone | U | U | NC | ≤25 |
| Dibromochloromethane | U | U | NC | ≤25 |
| 1,2-Dibromoethane | U | U | NC | ≤25 |
| Tetrachloroethene | U | U | NC | ≤25 |
| Chlorobenzene | U | U | NC | ≤25 |
| Ethylbenzene | 0.336 | 0.332 | 1 | ≤25 |
| m&p-Xylene | 0.333 | 0.342 | 3 | ≤25 |
| Bromoform | U | U | NC | ≤25 |
| Styrene | 0.361 | 0.359 | 0.6 | ≤25 |
| 1,1,2,2-Tetrachloroethane | U | U | NC | ≤25 |
| o-Xylene | 0.190 | 0.191 | 0.5 | ≤25 |
| p-Ethyltoluene | U | U | NC | ≤25 |
| 1,3,5-Trimethylbenzene | U | U | NC | ≤25 |
| 1,2,4-Trimethylbenzene | U | U | NC | ≤25 |
| 1,3-Dichlorobenzene | U | U | NC | ≤25 |
| 1,4-Dichlorobenzene | U | U | NC | ≤25 |
| 1,2-Dichlorobenzene | U | U | NC | ≤25 |
| Naphthalene | 0.160 | 0.144 | 10 | ≤25 |

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Table 2.6 (cont) Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: 09839

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Propylene | 1.00 | 0.954 | 5 | ≤25 |
| Dichlorodifluoromethane | 0.476 | 0.431 | 10 | ≤25 |
| Chloromethane | 5.61 | 5.54 | 1 | ≤25 |
| Dichlorotetrafluoroethane | U | U | NC | ≤25 |
| Vinyl Chloride | U | U | NC | ≤25 |
| 1,3-Butadiene | U | U | NC | ≤25 |
| Bromomethane | 3.37 | 3.23 | 4 | ≤25 |
| Chloroethane | 0.147 | 0.152 | 3 | ≤25 |
| Acetone | 68.7 | 70.2 | 2 | ≤25 |
| Trichlorofluoromethane | 0.225 | 0.214 | 5 | ≤25 |
| Isopropyl Alcohol | 5.73 | 6.10 | 6 | ≤25 |
| 1,1-Dichloroethene | U | U | NC | ≤25 |
| Methylene Chloride | 0.104 | 0.112 | 7 | ≤25 |
| Trichlorotrifluoroethane | U | U | NC | ≤25 |
| trans-1,2-Dichloroethene | U | U | NC | ≤25 |
| 1,1-Dichloroethane | U | U | NC | ≤25 |
| MTBE | U | U | NC | ≤25 |
| Vinyl Acetate | 0.715 | 0.741 | 4 | ≤25 |
| 2-Butanone | 2.72 | 2.78 | 2 | ≤25 |
| cis-1,2-Dichloroethene | U | U | NC | ≤25 |
| Ethyl Acetate | 0.485 | 0.491 | 1 | ≤25 |
| Hexane | 0.341 | 0.341 | 0 | ≤25 |
| Chloroform | 0.129 | 0.130 | 0.8 | ≤25 |
| Tetrahydrofuran | 0.571 | 0.574 | 0.5 | ≤25 |
| 1,2-Dichloroethane | 0.443 | 0.432 | 3 | ≤25 |
| 1,1,1-Trichloroethane | U | U | NC | ≤25 |
| Benzene | U | U | NC | ≤25 |
| Carbon Tetrachloride | U | U | NC | ≤25 |
| Cyclohexane | 4.50 | 4.66 | 3 | ≤25 |
| 1,2-Dichloropropane | U | U | NC | ≤25 |
| 1,4-Dioxane | U | U | NC | ≤25 |
| Trichloroethene | U | U | NC | ≤25 |
| Heptane | 0.142 | 0.160 | 10 | ≤25 |
| cis-1,3-Dichloropropene | U | U | NC | ≤25 |
| Methyl Isobutyl Ketone | 0.106 | 0.110 | 4 | ≤25 |
| trans-1,3-Dichloropropene | U | U | NC | ≤25 |
| 1,1,2-Trichloroethane | U | U | NC | ≤25 |
| Toluene | 0.748 | 0.765 | 2 | ≤25 |
| 2-Hexanone | U | U | NC | ≤25 |
| Dibromochloromethane | U | U | NC | ≤25 |
| 1,2-Dibromoethane | U | U | NC | ≤25 |
| Tetrachloroethene | U | U | NC | ≤25 |
| Chlorobenzene | U | U | NC | ≤25 |
| Ethylbenzene | 0.101 | 0.107 | 6 | ≤25 |
| m&p-Xylene | 0.166 | 0.174 | 5 | ≤25 |
| Bromoform | U | U | NC | ≤25 |
| Styrene | 0.254 | 0.255 | 0.4 | ≤25 |
| 1,1,2,2-Tetrachloroethane | U | U | NC | ≤25 |
| o-Xylene | U | U | NC | ≤25 |
| p-Ethyltoluene | U | U | NC | ≤25 |
| 1,3,5-Trimethylbenzene | U | U | NC | ≤25 |
| 1,2,4-Trimethylbenzene | U | U | NC | ≤25 |
| 1,3-Dichlorobenzene | U | U | NC | ≤25 |
| 1,4-Dichlorobenzene | U | U | NC | ≤25 |
| 1,2-Dichlorobenzene | U | U | NC | ≤25 |
| Naphthalene | 0.130 | 0.132 | 2 | ≤25 |

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Table 2.6 (cont) Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: 09904

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Propylene | 1.10 | 1.06 | 4 | ≤25 |
| Dichlorodifluoromethane | 0.477 | 0.448 | 6 | ≤25 |
| Chloromethane | 1.75 | 1.65 | 6 | ≤25 |
| Dichlorotetrafluoroethane | U | U | NC | ≤25 |
| Vinyl Chloride | U | U | NC | ≤25 |
| 1,3-Butadiene | U | U | NC | ≤25 |
| Bromomethane | 10.6 | 10.4 | 2 | ≤25 |
| Chloroethane | U | U | NC | ≤25 |
| Acetone | 39.5 | 38.3 | 3 | ≤25 |
| Trichlorofluoromethane | 0.237 | 0.229 | 3 | ≤25 |
| Isopropyl Alcohol | 19.0 | 18.4 | 3 | ≤25 |
| 1,1-Dichloroethene | U | U | NC | ≤25 |
| Methylene Chloride | 0.101 | U | NC | ≤25 |
| Trichlorotrifluoroethane | U | U | NC | ≤25 |
| trans-1,2-Dichloroethene | U | U | NC | ≤25 |
| 1,1-Dichloroethane | U | U | NC | ≤25 |
| MTBE | U | U | NC | ≤25 |
| Vinyl Acetate | 0.650 | 0.648 | 0 | ≤25 |
| 2-Butanone | 2.38 | 2.30 | 3 | ≤25 |
| cis-1,2-Dichloroethene | U | U | NC | ≤25 |
| Ethyl Acetate | 0.652 | 0.633 | 3 | ≤25 |
| Hexane | 1.10 | 1.06 | 4 | ≤25 |
| Chloroform | U | U | NC | ≤25 |
| Tetrahydrofuran | 2.35 | 2.19 | 7 | ≤25 |
| 1,2-Dichloroethane | 1.80 | 1.74 | 3 | ≤25 |
| 1,1,1-Trichloroethane | U | U | NC | ≤25 |
| Benzene | U | U | NC | ≤25 |
| Carbon Tetrachloride | U | U | NC | ≤25 |
| Cyclohexane | U | U | NC | ≤25 |
| 1,2-Dichloropropane | U | U | NC | ≤25 |
| 1,4-Dioxane | U | U | NC | ≤25 |
| Trichloroethene | U | U | NC | ≤25 |
| Heptane | 0.111 | 0.104 | 7 | ≤25 |
| cis-1,3-Dichloropropene | U | U | NC | ≤25 |
| Methyl Isobutyl Ketone | 0.139 | 0.141 | 1 | ≤25 |
| trans-1,3-Dichloropropene | U | U | NC | ≤25 |
| 1,1,2-Trichloroethane | U | U | NC | ≤25 |
| Toluene | 1.23 | 1.19 | 3 | ≤25 |
| 2-Hexanone | U | U | NC | ≤25 |
| Dibromochloromethane | U | U | NC | ≤25 |
| 1,2-Dibromoethane | U | U | NC | ≤25 |
| Tetrachloroethene | U | U | NC | ≤25 |
| Chlorobenzene | U | U | NC | ≤25 |
| Ethylbenzene | 0.377 | 0.365 | 3 | ≤25 |
| m&p-Xylene | 0.639 | 0.605 | 5 | ≤25 |
| Bromoform | U | U | NC | ≤25 |
| Styrene | 1.31 | 1.26 | 4 | ≤25 |
| 1,1,2,2-Tetrachloroethane | U | U | NC | ≤25 |
| o-Xylene | 0.344 | 0.332 | 4 | ≤25 |
| p-Ethyltoluene | 0.108 | U | NC | ≤25 |
| 1,3,5-Trimethylbenzene | U | U | NC | ≤25 |
| 1,2,4-Trimethylbenzene | 0.285 | 0.270 | 5 | ≤25 |
| 1,3-Dichlorobenzene | U | U | NC | ≤25 |
| 1,4-Dichlorobenzene | U | U | NC | ≤25 |
| 1,2-Dichlorobenzene | U | U | NC | ≤25 |
| Naphthalene | 0.297 | 0.302 | 2 | ≤25 |

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Table 2.6 (cont) Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: 09909

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Propylene | 1.23 | 1.21 | 2 | ≤25 |
| Dichlorodifluoromethane | 0.502 | 0.474 | 6 | ≤25 |
| Chloromethane | 0.685 | 0.658 | 4 | ≤25 |
| Dichlorotetrafluoroethane | U | U | NC | ≤25 |
| Vinyl Chloride | U | U | NC | ≤25 |
| 1,3-Butadiene | U | U | NC | ≤25 |
| Bromomethane | U | U | NC | ≤25 |
| Chloroethane | U | U | NC | ≤25 |
| Acetone | 6.49 | 6.45 | 1 | ≤25 |
| Trichlorofluoromethane | 0.234 | 0.229 | 2 | ≤25 |
| Isopropyl Alcohol | U | U | NC | ≤25 |
| 1,1-Dichloroethene | U | U | NC | ≤25 |
| Methylene Chloride | U | U | NC | ≤25 |
| Trichlorotrifluoroethane | U | U | NC | ≤25 |
| trans-1,2-Dichloroethene | U | U | NC | ≤25 |
| 1,1-Dichloroethane | U | U | NC | ≤25 |
| MTBE | U | U | NC | ≤25 |
| Vinyl Acetate | 0.619 | 0.594 | 4 | ≤25 |
| 2-Butanone | U | U | NC | ≤25 |
| cis-1,2-Dichloroethene | U | U | NC | ≤25 |
| Ethyl Acetate | U | U | NC | ≤25 |
| Hexane | 0.221 | 0.224 | 1 | ≤25 |
| Chloroform | U | U | NC | ≤25 |
| Tetrahydrofuran | U | U | NC | ≤25 |
| 1,2-Dichloroethane | U | U | NC | ≤25 |
| 1,1,1-Trichloroethane | U | U | NC | ≤25 |
| Benzene | 0.436 | 0.431 | 1 | ≤25 |
| Carbon Tetrachloride | U | U | NC | ≤25 |
| Cyclohexane | U | U | NC | ≤25 |
| 1,2-Dichloropropane | U | U | NC | ≤25 |
| 1,4-Dioxane | U | U | NC | ≤25 |
| Trichloroethene | U | U | NC | ≤25 |
| Heptane | 0.149 | 0.142 | 5 | ≤25 |
| cis-1,3-Dichloropropene | U | U | NC | ≤25 |
| Methyl Isobutyl Ketone | U | U | NC | ≤25 |
| trans-1,3-Dichloropropene | U | U | NC | ≤25 |
| 1,1,2-Trichloroethane | U | U | NC | ≤25 |
| Toluene | 4.50 | 4.46 | 1 | ≤25 |
| 2-Hexanone | U | U | NC | ≤25 |
| Dibromochloromethane | U | U | NC | ≤25 |
| 1,2-Dibromoethane | U | U | NC | ≤25 |
| Tetrachloroethene | U | U | NC | ≤25 |
| Chlorobenzene | U | U | NC | ≤25 |
| Ethylbenzene | 0.678 | 0.680 | 0 | ≤25 |
| m&p-Xylene | 2.13 | 2.12 | 1 | ≤25 |
| Bromoform | U | U | NC | ≤25 |
| Styrene | U | U | NC | ≤25 |
| 1,1,2,2-Tetrachloroethane | U | U | NC | ≤25 |
| o-Xylene | 0.843 | 0.817 | 3 | ≤25 |
| p-Ethyltoluene | 0.140 | 0.141 | 1 | ≤25 |
| 1,3,5-Trimethylbenzene | 0.142 | 0.130 | 9 | ≤25 |
| 1,2,4-Trimethylbenzene | 0.483 | 0.471 | 3 | ≤25 |
| 1,3-Dichlorobenzene | U | U | NC | ≤25 |
| 1,4-Dichlorobenzene | U | U | NC | ≤25 |
| 1,2-Dichlorobenzene | U | U | NC | ≤25 |
| Naphthalene | U | U | NC | ≤25 |

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Table 2.6 (cont) Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: 9873

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Bromomethane | 4.16 | 3.82 | 9 | ≤25 |

Table 2.6 (cont) Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response

Sample ID: 09892

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Bromomethane | 0.0878 | 0.0926 | 5 | ≤25 |

Sample ID: 9932

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Bromomethane | 0.0740 | 0.0768 | 4 | ≤25 |

Sample ID: 9935

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Bromomethane | 9.66 | 11.2 | 15 | ≤25 |

Sample ID: 9939

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Bromomethane | 1.50 | 1.42 | 5 | ≤25 |

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Table 2.7 Results of the Duplicate Analysis for Bromide in Potable Water
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: 55046

| Analyte | Initial Analysis (mg/L) | Duplicate Analysis (mg/L) | % RPD | QC Limits % RPD |
|---|---|---|---|---|
| Bromide | U | U | NC | 20 |

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Environmental Response Team/Scientific Engineering, Response and Analytical Services
2890 Woodbridge Avenue, Building 209 Annex
Edison NJ 08837

Table 2.8 Results of the MS/MSD Analysis for VOC in Water
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID : 55036

| Analyte | Sample Conc. µg/L | MS Spike Added µg/L | MSD Spike Added µg/L | MS Conc. µg/L | MSD Conc. µg/L | MS %Rec. | MSD %Rec. | RPD | QC Limits RPD | QC Limits % Rec. |
|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | U | 50.0 | 50.0 | 37.4 | 37.9 | 75 | 76 | 1 | 25 | 50 - 150 |
| Chloromethane | U | 50.0 | 50.0 | 46.6 | 46.0 | 93 | 92 | 1 | 25 | 50 - 150 |
| Vinyl Chloride | U | 50.0 | 50.0 | 38.7 | 38.8 | 77 | 78 | 0 | 25 | 50 - 150 |
| Bromomethane | U | 50.0 | 50.0 | 47.1 | 48.4 | 94 | 97 | 3 | 25 | 50 - 150 |
| Chloroethane | U | 50.0 | 50.0 | 46.5 | 47.8 | 93 | 96 | 3 | 25 | 50 - 150 |
| Trichlorofluoromethane | U | 50.0 | 50.0 | 39.3 | 39.4 | 79 | 79 | 0 | 25 | 50 - 150 |
| Acetone | U | 50.0 | 50.0 | 82.4 | 87.2 | 165 * | 174 * | 6 | 25 | 50 - 150 |
| 1,1-Dichloroethene | U | 50.0 | 50.0 | 46.6 | 46.4 | 93 | 93 | 0 | 25 | 50 - 150 |
| Methylene Chloride | U | 50.0 | 50.0 | 50.6 | 50.9 | 101 | 102 | 1 | 25 | 50 - 150 |
| Carbon Disulfide | U | 50.0 | 50.0 | 50.5 | 50.2 | 101 | 100 | 1 | 25 | 50 - 150 |
| Methyl tert-Butyl Ether | U | 50.0 | 50.0 | 43.9 | 43.9 | 88 | 88 | 0 | 25 | 50 - 150 |
| trans-1,2-Dichloroethene | U | 50.0 | 50.0 | 49.2 | 49.6 | 98 | 99 | 1 | 25 | 50 - 150 |
| 1,1 Dichloroethane | U | 50.0 | 50.0 | 48.8 | 49.7 | 98 | 99 | 2 | 25 | 50 - 150 |
| 2-Butanone | 3.45 | 50.0 | 50.0 | 78.8 | 78.5 | 151 * | 150 * | 0 | 25 | 50 - 150 |
| 2,2-Dichloropropane | U | 50.0 | 50.0 | 44.6 | 43.8 | 89 | 88 | 2 | 25 | 50 - 150 |
| cis-1,2-Dichloroethene | U | 50.0 | 50.0 | 51.1 | 50.4 | 102 | 101 | 1 | 25 | 50 - 150 |
| Chloroform | U | 50.0 | 50.0 | 49.2 | 48.9 | 98 | 98 | 1 | 25 | 50 - 150 |
| 1,1-Dichloropropene | U | 50.0 | 50.0 | 48.6 | 48.5 | 97 | 97 | 0 | 25 | 50 - 150 |
| 1,2-Dichloroethane | U | 50.0 | 50.0 | 47.5 | 47.6 | 95 | 95 | 0 | 25 | 50 - 150 |
| 1,1,1-Trichloroethane | U | 50.0 | 50.0 | 48.9 | 49.2 | 98 | 98 | 1 | 25 | 50 - 150 |
| Carbon Tetrachloride | U | 50.0 | 50.0 | 48.4 | 49.9 | 97 | 100 | 3 | 25 | 50 - 150 |
| Benzene | U | 50.0 | 50.0 | 54.7 | 54.6 | 109 | 109 | 0 | 25 | 50 - 150 |
| Trichloroethene | U | 50.0 | 50.0 | 51.4 | 50.8 | 103 | 102 | 1 | 25 | 50 - 150 |
| 1,2-Dichloropropane | U | 50.0 | 50.0 | 53.7 | 54.3 | 107 | 109 | 1 | 25 | 50 - 150 |
| Bromodichloromethane | 2.47 | 50.0 | 50.0 | 51.4 | 51.8 | 98 | 99 | 1 | 25 | 50 - 150 |
| Dibromomethane | U | 50.0 | 50.0 | 51.9 | 52.5 | 104 | 105 | 1 | 25 | 50 - 150 |
| cis-1,3-Dichloropropene | U | 50.0 | 50.0 | 48.5 | 48.8 | 97 | 98 | 1 | 25 | 50 - 150 |
| trans-1,3-Dichloropropene | U | 50.0 | 50.0 | 48.1 | 48.0 | 96 | 96 | 0 | 25 | 50 - 150 |
| 1,1,2-Trichloroethane | U | 50.0 | 50.0 | 52.3 | 52.7 | 105 | 105 | 1 | 25 | 50 - 150 |
| 1,3-Dichloropropane | U | 50.0 | 50.0 | 51.1 | 51.0 | 102 | 102 | 0 | 25 | 50 - 150 |
| Dibromochloromethane | 8.33 | 50.0 | 50.0 | 58.6 | 58.0 | 101 | 99 | 1 | 25 | 50 - 150 |
| 1,2-Dibromoethane | U | 50.0 | 50.0 | 51.1 | 51.7 | 102 | 103 | 1 | 25 | 50 - 150 |
| Bromoform | 19.6 | 50.0 | 50.0 | 72.6 | 73.3 | 106 | 107 | 1 | 25 | 50 - 150 |
| 4-Methyl-2-Pentanone | U | 50.0 | 50.0 | 54.2 | 55.1 | 108 | 110 | 2 | 25 | 50 - 150 |
| Toluene | U | 50.0 | 50.0 | 51.4 | 52.3 | 103 | 105 | 2 | 25 | 50 - 150 |
| 2-Hexanone | U | 50.0 | 50.0 | 65.9 | 67.4 | 132 | 135 | 2 | 25 | 50 - 150 |
| Tetrachloroethene | U | 50.0 | 50.0 | 50.0 | 50.7 | 100 | 101 | 1 | 25 | 50 - 150 |
| Chlorobenzene | U | 50.0 | 50.0 | 49.6 | 50.4 | 99 | 101 | 2 | 25 | 50 - 150 |
| 1,1,1,2-Tetrachloroethane | U | 50.0 | 50.0 | 48.0 | 49.0 | 96 | 98 | 2 | 25 | 50 - 150 |
| Ethylbenzene | U | 50.0 | 50.0 | 50.9 | 51.7 | 102 | 103 | 2 | 25 | 50 - 150 |
| p&m-Xylene | U | 100 | 100 | 98.8 | 99.7 | 99 | 100 | 1 | 25 | 50 - 150 |
| o-Xylene | U | 50.0 | 50.0 | 48.3 | 49.2 | 97 | 98 | 2 | 25 | 50 - 150 |
| Styrene | U | 50.0 | 50.0 | 1.63 | 1.44 | 3 * | 3 * | 12 | 25 | 50 - 150 |
| Isopropylbenzene | U | 50.0 | 50.0 | 48.2 | 49.2 | 96 | 98 | 2 | 25 | 50 - 150 |
| 1,1,2,2-Tetrachloroethane | U | 50.0 | 50.0 | 51.2 | 53.2 | 102 | 106 | 4 | 25 | 50 - 150 |
| 1,2,3-Trichloropropane | U | 50.0 | 50.0 | 48.4 | 50.7 | 97 | 101 | 5 | 25 | 50 - 150 |
| n-Propylbenzene | U | 50.0 | 50.0 | 49.2 | 49.9 | 98 | 100 | 1 | 25 | 50 - 150 |
| Bromobenzene | U | 50.0 | 50.0 | 49.7 | 51.5 | 99 | 103 | 4 | 25 | 50 - 150 |
| 1,3,5-Trimethylbenzene | U | 50.0 | 50.0 | 40.3 | 39.4 | 81 | 79 | 2 | 25 | 50 - 150 |
| 2-Chlorotoluene | U | 50.0 | 50.0 | 47.5 | 48.3 | 95 | 97 | 2 | 25 | 50 - 150 |
| 4-Chlorotoluene | U | 50.0 | 50.0 | 48.0 | 49.1 | 96 | 98 | 2 | 25 | 50 - 150 |
| tert-Butylbenzene | U | 50.0 | 50.0 | 47.2 | 48.7 | 94 | 97 | 3 | 25 | 50 - 150 |
| 1,2,4-Trimethylbenzene | U | 50.0 | 50.0 | 48.3 | 49.6 | 97 | 99 | 3 | 25 | 50 - 150 |
| sec-Butylbenzene | U | 50.0 | 50.0 | 47.7 | 49.2 | 95 | 98 | 3 | 25 | 50 - 150 |
| p-Isopropyltoluene | U | 50.0 | 50.0 | 46.8 | 48.3 | 94 | 97 | 3 | 25 | 50 - 150 |
| 1,3-Dichlorobenzene | U | 50.0 | 50.0 | 47.8 | 49.2 | 96 | 98 | 3 | 25 | 50 - 150 |
| 1,4-Dichlorobenzene | U | 50.0 | 50.0 | 50.0 | 51.8 | 100 | 104 | 4 | 25 | 50 - 150 |
| n-Butylbenzene | U | 50.0 | 50.0 | 49.0 | 50.8 | 98 | 102 | 4 | 25 | 50 - 150 |
| 1,2-Dichlorobenzene | U | 50.0 | 50.0 | 49.1 | 50.3 | 98 | 101 | 2 | 25 | 50 - 150 |
| 1,2-Dibromo-3-Chloroprop | U | 50.0 | 50.0 | 47.2 | 47.8 | 94 | 96 | 1 | 25 | 50 - 150 |
| 1,2,4-Trichlorobenzene | U | 50.0 | 50.0 | 49.4 | 51.7 | 99 | 103 | 5 | 25 | 50 - 150 |
| Hexachlorobutadiene | U | 50.0 | 50.0 | 48.0 | 50.9 | 96 | 102 | 6 | 25 | 50 - 150 |
| Naphthalene | U | 50.0 | 50.0 | 46.5 | 48.8 | 93 | 98 | 5 | 25 | 50 - 150 |
| 1,2,3-Trichlorobenzene | U | 50.0 | 50.0 | 49.7 | 51.7 | 99 | 103 | 4 | 25 | 50 - 150 |

*Indicates out of the criteria

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Table 2.9 Results of the Matrix Spike Analysis for Bromide in Potable Water
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: 55047

| Analyte | Sample Conc. (mg/L) | MS Spike Added (mg/L) | MS Conc. | MS %Rec. | QC Limits % Rec. |
|---|---|---|---|---|---|
| Bromide | U | 3.75 | 3.42 | 91 | 75-125 |

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Table 2.10 .Results of the Blank Spike/Blank Spike Duplicate Analysis for Bromide in Wipes
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: WG311994-3 BS, WG311994-4 BSD 03/31/15

| Analyte | BS/BSD spike amount ug | BS Result ug | BS % Recovery | BSD Result ug | BSD % Recovery | %RPD | QC Limits. % Recovery | QC Limits. %RPD |
|---|---|---|---|---|---|---|---|---|
| BROMIDE | 30.0 | 31.0 | 103 | 30.0 | 100 | 3 | 75-125 | 20 |

Sample ID: WG312245-3 BS, WG312245-4 BSD 04/02/15

| Analyte | BS/BSD spike amount ug | BS Result ug | BS % Recovery | BSD Result ug | BSD % Recovery | %RPD | QC Limits. % Recovery | QC Limits. %RPD |
|---|---|---|---|---|---|---|---|---|
| BROMIDE | 30.0 | 29.8 | 99 | 29.7 | 99 | 0.3 | 75-125 | 20 |

Sample ID: WG313462-3 BS, WG313462-4 BSD 04/16/15

| Analyte | BS/BSD spike amount ug | BS Result ug | BS % Recovery | BSD Result ug | BSD % Recovery | %RPD | QC Limits. % Recovery | QC Limits. %RPD |
|---|---|---|---|---|---|---|---|---|
| BROMIDE | 30.0 | 30.0 | 100 | 34.0 | 113 | 13 | 75-125 | 20 |

Sample ID: WG313462-7 BS, WG313462-8 BSD 04/17/15

| Analyte | BS/BSD spike amount ug | BS Result ug | BS % Recovery | BSD Result ug | BSD % Recovery | %RPD | QC Limits. % Recovery | QC Limits. %RPD |
|---|---|---|---|---|---|---|---|---|
| BROMIDE | 30.0 | 31.2 | 104 | 30.5 | 102 | 2 | 75-125 | 20 |

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Table 2.11 Results of the Blank Spike/Blank Spike Duplicate Analysis for Methyl Bromide in Tubes (Air)
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: WG311937-4 BS, WG311937-5 BSD 04/04/15

| Analyte | BS/BSD spike amount ug | BS Result ug | BS % Recovery | BSD Result ug | BSD % Recovery | %RPD | QC Limits. % Recovery | QC Limits. %RPD |
|---|---|---|---|---|---|---|---|---|
| Methyl Bromide | 50.2 | 44.4 | 89 | 42.4 | 85 | 4.6 | 75-125 | 20 |

Sample ID: WG312553-4 BS, WG312553-5 BSD 04/07/15

| Analyte | BS/BSD spike amount ug | BS Result ug | BS % Recovery | BSD Result ug | BSD % Recovery | %RPD | QC Limits. % Recovery | QC Limits. %RPD |
|---|---|---|---|---|---|---|---|---|
| Methyl Bromide | 500 | 491 | 98 | 544 | 109 | 10 | 75-125 | 20 |

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LOCKHEED MARTIN

Lockheed Martin Information Systems & Global Solutions (IS&GS - Civil)
Environmental Services SERAS
2890 Woodbridge Avenue, Building 209 Annex
Edison, NJ 08837-3679
Telephone: 732-321-4200, Facsimile: 732-494-4021

Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
207-874-2400x17

Attn: Jennifer Obrin

March 25, 2015

As per Lockheed Martin / SERAS BPA 4100675134, for Project 56001, please analyze the following

| Analysis/Method | Matrix | # of samples |
|---|---|---|
| Pesticides (list attached) SW846-8081A | Wipes | 20 |
| The complete data package must include all items on the deliverables checklist. All sample and QC results must be summarized in a .csv file. | | |

The samples are expected to arrive at your laboratory on or about March 27, 2015. **All applicable QA/QC** (eg: MS/MSD and Duplicates) **analysis as per method, will be performed on our sample matrix**. Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be emailed to SERAS 5 business days after receipt of the samples. The complete data package is due 10 business days after receipt of the samples.

Please submit all reports and questions concerning this project to Misty Barkley **at (732) 321-4205 or misty.barkley@lmco.com**.

Sincerely,

Jay Patel

Jay Patel
Analytical Support Chemist
Lockheed Martin / SERAS Project

cc. R. Singhvi
J. Patel
D. Killeen
P. Solinski
A. DuBois

LOCKHEED MARTIN

Lockheed Martin Information Systems & Global Solutions (IS&GS - Civil)
Environmental Services SERAS
2890 Woodbridge Avenue, Building 209 Annex
Edison, NJ 08837-3679
Telephone: 732-321-4200, Facsimile: 732-494-4021

ALS Group USA, Inc. .
2655 Park Center Drive Suite A
Simi Valley, CA 93065
805-526-7161 x 234

Attn: Kate Aguilera

March 25, 2015

As per Lockheed Martin / SERAS BPA # 4101885575 for Project 56001, please analyze:

| Analysis/Method | Media | # of samples |
|---|---|---|
| Pesticides in Air by TO-10 sampled for app. 1000 liters | SKC 226-124 | 20 |

The samples are expected to arrive at your laboratory on or about March 27, 2015. **All applicable QA/QC** (eg: Duplicates, and Blanks) **analysis as per method, will be performed on our sample matrix**. Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be sent to SERAS 5 business days after receipt of samples. The complete data package is due 10 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist.

All sample and QC results must be summarized in a .csv file. Units must be in ppbv and ug/m3 in the electronic deliverable.

Please submit all reports concerning this project to **Misty Barkley (732) 321-4205 or misty.barkley@lmco.com.**

Sincerely,

Jay Patel
Analytical Support Chemist
Lockheed Martin / SERAS Project

cc. J. Patel, R. Singhvi, J. Gerena, Subcontracting File, D. Killeen, P. Solinski

LOCKHEED MARTIN

Lockheed Martin Information Systems & Global Solutions (IS&GS - Civil)
Environmental Services SERAS
2890 Woodbridge Avenue, Building 209 Annex
Edison, NJ 08837-3679
Telephone: 732-321-4200, Facsimile: 732-494-4021

SGS Galson Laboratories
6601 Kirvkille Rd
East Syracuse, NY 13057
888-432-5227

Attn: Pam Weaver

March 27, 2015

As per Lockheed Martin / SERAS credit card, for Project 56001, please analyze the following:

| Analysis/Method | Media | # of samples |
|---|---|---|
| Method Bromide by OSHA PV2040 mod. | SKC 226-83 | 20 |
| Bromide by NIOSH 7903 modified | 2 um PTFE Wipes | 20 |
| The complete data package must include all items on the deliverables checklist. All sample and QC results must be summarized in a .csv file. | | |

The samples are expected to arrive at your laboratory on or about March 27, 2015 **All applicable QA/QC** (eg: MS/MSD and Duplicates) **analysis as per method, will be performed on our sample matrix**. Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be emailed to SERAS 5 business days after receipt of the samples. The complete data package is due 10 business days after receipt of the samples.

Please submit all reports and questions concerning this project to Misty Barkley **at (732) 321-4205 or misty.barkley@lmco.com**.

Sincerely,

Jay Patel
Analytical Support Chemist
Lockheed Martin / SERAS Project

cc. R. Singhvi
J. Patel
D. Killeen
P. Solinski
A. DuBois

LOCKHEED MARTIN

Lockheed Martin Information Systems & Global Solutions (IS&GS - Civil)
Environmental Services SERAS
2890 Woodbridge Avenue, Building 209 Annex
Edison, NJ 08837-3679
Telephone: 732-321-4200, Facsimile: 732-494-4021

SGS Galson Laboratories
6601 Kirvkille Rd
East Syracuse, NY 13057
888-432-5227

Attn: Pam Weaver/Caroline Hudson

April 10, 2015

As per Lockheed Martin / SERAS credit card, for Project 56001, please analyze the following:

| Analysis/Method | Media | # of samples |
|---|---|---|
| Bromide by NIOSH 7903 modified | 2 um PTFE Wipes | 15 |
| The complete data package must include all items on the deliverables checklist. All sample and QC results must be summarized in a .csv file. | | |

The samples are expected to arrive at your laboratory on or about April 14, 2015 **All applicable QA/QC** (eg: MS/MSD and Duplicates) **analysis as per method, will be performed on our sample matrix.** Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be emailed to SERAS 5 business days after receipt of the samples. The complete data package is due 10 business days after receipt of the samples.

Please submit all reports and questions concerning this project to Misty Barkley **at (732) 321-4205 or misty.barkley@lmco.com**.

Sincerely,

Jay Patel
Analytical Support Chemist
Lockheed Martin / SERAS Project

cc. R. Singhvi
J. Patel
D. Killeen
P. Solinski
A. DuBois

:EAC, Edison, NJ
732) 321-4200
:PA Contract 68-C99-223

# CHAIN OF CUSTODY RECORD

Project Name: St. John ER
Project Number: 0-001
LM Contact: Dubois Phone: 609-865 9304

No: 00227
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R503006

**Sample Identification** — **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles | Container/Preservative | Date | Time | MeBr | Volume | Summa # |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | S5002 | MBR | A | 3/24/15 | 1 | Summa/none | 3/24/15 | 1314 | ✓ | 6(L) | 14250 |
| 04 | S5003 | TRIP | A | ↓ | 1 | Summa/none | 3/24/15 | 1230 | ✓ | Ø(L) | 14220 |

Matrix:

- A- Air
- AT-Animal Tissue
- DL- Drum Liquids
- DS- Drum Solids
- GW- Groundwater
- O- Oil
- ~~PR-Product~~
- PT-Plant Tissue
- PW- Potable Water
- S- Soil
- SD- Sediment
- SL- Sludge
- SW- Surface Water
- TX-TCLP Extract
- W- Water
- X- Other

Special Instructions:

Analyze for ~~MeBr~~ (AD) Methyl bromide

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/Analysis | [signature] | 3/24/15 | [signature] | 3/26/15 | 8:00 | All/Analysis | [signature] | 3/26/15 | [signature] | 3/26/15 | 09:10 |

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS-270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: St. John [illegible]
Project Number: 0-001
LM Contact: DuBois Phone: 609-865-9304

No: 00263
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R503006

## Sample Identification / Analyses Requested

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Date | Time | Volume | MeBr | Summa# |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 55000 | KITCHEN | A | 3/24/05 | 1 | Summa/none | 3/24/15 | 1315 | 6 (L) | ✓ | 14222 |
| 02 | 55001 | OUTSIDE A/C | A | ↓ | 1 | Summa/none | 3/24/15 | 1412 | 6 (L) | ✓ | 250 |

Matrix:

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze for methyl bromide

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/Analysis | [signature] | 3/24/15 | [signature] | 3/26/15 | 8:00 | All/Analysis | [signature] | 3/26/15 | [signature] | 3/26/15 | 09:10 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

☆ U.S. GPO: 2000-521-151

REAC, Edison NJ
(732) 321-4
EPA Contract 68-C99-223

ALS

SERAS-270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: St. Jo (56001)
Project Number: 56001
LM Contact: Amy DuBois Phone: 609-865-9304
Misty Berkley 848-702-1747

P/SD/1256

No: 00293
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles (PUF) | Container/Preservative | Analysis | | | Volume | Sample Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 55024 | BR2 (upper) | Air | 3/27/15 | 1 | SKC 226-124 / none | TO-10A | Pesticides | | 720 L | 0606 |
| | 55027 | Ambient | Air | 3/27/15 | 1 | SKC 226-124 / none | TO-10A | Pesticides | | 720 L | 0611 |
| | 55028 | MBR (upper) | Air | 3/27/15 | 1 | SKC 226-124 / none | TO-10A | Pesticides | | 720 L | 0608 |
| | 55031 | Kitchen (upper) | Air | 3/27/15 | 1 | SKC 226-124 / none | TO-10A | Pesticides | | 720 L | 0607 |

CG 3/27/15

**Matrix:**

| | |
|---|---|
| A- Air | PW- Potable Water |
| AT-Animal Tissue | S- Soil |
| DL- Drum Liquids | SD- Sediment |
| DS- Drum Solids | SL- Sludge |
| GW- Groundwater | SW- Surface Water |
| O- Oil | TX-TCLP Extract |
| PR-Product | W- Water |
| PT-Plant Tissue | X- Other |

Special Instructions:

3 Extra PUF tubes provided for blanks
Lot # 8659/8817/8659

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

5°C wet ice

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| All/Analysis | [illegible] | 3/27/15 | [illegible] | 3/28/15 | 1015am | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |



☆ U.S. GPO: 2000-521-151

SERAS
REAC, Ed[illegible] J
(732) 321-4200 EP-W-09-031
EPA Contract ~~68-C99-223~~ AD
KATHADIN

# CHAIN OF CUST[illegible] RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: Barkley Phone: 732-321-4205

5119
No: 00294
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

SERAS-270-DAR-052715

AA042-11

## Sample Identification / Analyses Requested

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ WIPES | Container/Preservative | Date | Area | Pesticides | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 55005 ✓ | 1H ✓ | X | 3/26/15 | 1 | 40mL Amber jar/ice | 3/26/15 | 100cm² | ✓ | | |
| | 55007 ✓ | 2H ✓ | ↓ | ↓ | 1 | ↓ | ↓ | 100cm² | ✓ | | |
| | 55009 ✓ | 3H ✓ | ↓ | ↓ | 1 | ↓ | ↓ | 100 cm² | ✓ | | |
| | 55011 ✓ | 4H ✓ | ↓ | ↓ | 1 | ↓ | ↓ | 100 cm² | ✓ | | |
| | 55013 ✓ | 5H ✓ | ↓ | ↓ | 1 | ↓ | ↓ | 100cm² | ✓ | | |
| | 55015 ✓ | 6H ✓ | ↓ | ↓ | 1 | ↓ | ↓ | 100 cm² | ✓ | | |
| | 55017 ✓ | 7H ✓ | ↓ | ↓ | 1 | ↓ | ↓ | 100cm² | ✓ | | |
| | 55019 ✓ | 8H ✓ | ↓ | ↓ | 1 | ↓ | ↓ | 100cm² | ✓ | | |
| | 55021 ✓ | Template blank | ↓ | ↓ | 1 | ↓ | ↓ | 100cm² | ✓ | | |
| | — | method/BS/BSD | | | 6 | ziplock | ↓ | 100cm² | ✓ | | |

AD

AD

AD

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other GAUZE WIPES, 2"x2", LOT# 1709T5527

Special Instructions:

Analyze for pesticides on wipes by ~~SW6~~ AD SW846-8081A

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/Analysis | [signature] | 3/26/15 | [signature] | 3/28/15 | 1015 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

☆ U.S. GPO: 2000-521-151

0000309

REAC, Ed NJ
(732) 321 EP-W-09-031
EPA Contract ~~68-C99-223~~

SERAS-270-DAR-052745

# CHAIN OF CUSTODY RECORD

Project Name: 56-0 56001
Project Number: 56-001 56001
LM Contact: M. Barkley Phone: 732-321-4205

No: 00295 77
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

## Sample Identification / Analyses Requested

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles (Wipes) | Container/Preservative (PTFE Vial) | Date | Area | Bromide | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 55006 | 1D | X | 3/26/15 | 1 | GALSONVIAL/ICE | 3/26/15 | 100cm² | ✓ | |
| | 55008 | 2D | | | 1 | | | 100cm² | ✓ | |
| | 55010 | 3D | | | 1 | | | 100cm² | ✓ | |
| | 55012 | 4D | | | 1 | | | 100cm² | ✓ | |
| | 55014 | 5D | | | 1 | | | 100cm² | ✓ | |
| | 55016 | 6D | | | 1 | | | 100cm² | ✓ | |
| | 55018 | 7D | | | 1 | | | 100cm² | ✓ | |
| | 55020 | 8D | | | 1 | | | 100cm² | ✓ | |
| | 55022 | Template blank | | | 1 | | | 100cm² | ✓ | |

please analyze required QA/QC samples (method blank, BS/BSD) using 37mm PTFE filter LOT # 189, expiration 08/31/19.

806761165251
Date:03/28/15
Shipper:FEDEX
Initials:CMS
Prep:PSY336850

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
Please analyze for Bromide by ion chromatography following modified NIOSH 7903

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/Analysis | | 3/27/15 | | 3/28/15 | 0945 | | | | | | |
| | | | | | | | | | | | |
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96

☆ U.S. GPO: 2000-521-151

REAC, E[illegible] NJ
(732) 321-[illegible]00
EPA Contract 68-C99-223

Galson

SERAS-270-DAR-052715

**CHAIN OF CUS[illegible]Y RECORD**

Project Name: St John (56001)
Project Number: 56001
LM Contact: Misty Barkley Phone: 848-702-1747

No: 00296
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

78

**Sample Identification** | **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Tubes | Container/Preservative | Method | Compound | Sample Time | Volume (L) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 55023 | Kitchen | A | 3/27/15 | 1 | SKC 226-83 | OSHA | Methyl | 0007 | 123.6 | |
| | 55025 | BR2 | A | 3/27/15 | 1 | | PV2040 | Bromide | 0606 | 698.4 | |
| | 55026 | BR2 | A | 3/27/15 | 1 | | | | 0006 | 121.2 | |
| | 55029 | MBR | A | 3/27/15 | 1 | | | | 0517 | 602.1 | |
| | 55030 | MBR | A | 3/27/15 | 1 | | | | 0008 | 117.6 | |
| | 55032 | Kitchen | A | 3/27/15 | 1 | | | | 0607 | 684 | |
| | 55033 | Ambient | A | 3/27/15 | 1 | | | | 0612 | 651.6 | |
| | 55034 | Field Blank | A | 3/26/15 | 1 | | | | 1812 | — | |
| | 55035 | Trip Blank | A | 3/26/15 | 1 | | | | 1812 | — | |

226-83

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

* Extra tubes provided for Lot Blank (lot # 9219) and BS/BSD.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/Analysis | [signature] | 3/27/15 | [signature] | 3/28/15 | 0945 | | | | | | |

07

☆ U.S. GPO: 2000-521-151

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-99-223

SERAS-0527-DAR-052715

WO#R503010

# CHAIN OF CUSTODY RECORD

Project Name: ST. JO (56001)
Project Number: 56001
LM Contact: AMY DUBOIS Phone: 609-865-9304
MISTY BARKLEY 848-702-1742

No: 00297
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

**Sample Identification** / **Analyses Requested**

| REAC # | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles | Container/Preservative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 55036 | UPPER KITCHEN | ~~AIR~~ PW | 3/22/15 | 6 | 40mL VOA / NONE | VOC | | | | | |
| 02 | 55037 | UPPER BR2 | ~~AIR~~ PW | 3/22/15 | 3 | 40mL VOA/NONE | VOC | | | | | |
| 03 | 55038 | UPPER BR2 | PW | 3/22/15 | 3 | 40mL VOA/NONE | VOC | | | | | |
| 04 | 55039 | TRIP BLANK | PW | 3/22/15 | 3 | 40mL VOA/NONE | VOC | | | | | |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

55036 - MS/MSD
MATRIX OF ALL SAMPLES IS PW

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

Received 5°C TM 3/30/15

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ALL SAMPLES/ALL | | 3/22/15 | | 3/30/15 | 12:00 | All/Analysis | | 3/30/15 | | 03/30/15 | 1615 |
| | | | | | | | | | | | |
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REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS 270 DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: St. John ER
Project Number: 0-001
LM Contact: DuBois Phone: 609-865-9304

No: 00898
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R503006

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Date | Time | MeBr | Volume | Summa |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | 55004 | BR2 | A | 3/24/15 | 1 | Summa/none | 3/24/15 | 1323 | ✓ | 6(L) | 184 |

AG

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze for methyl bromide

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 3/24/15 | [signature] | 3/26/15 | 8:00 | All/Analysis | [signature] | 3/26/15 | [signature] | 3/26/15 | 09:10 |

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REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS 270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: St. J[illegible]
Project Number: 56-001
LM Contact: DUBOIS Phone: 609-865-9304
(AD) ~~M. Berkley~~ Solinski x 4283

No: 06826
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R504002

**Sample Identification** **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles | Container/Preservative | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 55049 | LOWER KITCHEN | PW | 3/28/15 | 3 | 40mL AMBER/NONE | VOC | | | | |
| 02 | 55050 | FIELD BLANK | PW | 3/28/15 | 3 | 40mL AMBER/NONE | VOC | | | | |
| 03 | ~~55051~~ (AD) 55152 | TRIP BLANK | PW | 3/28/15 | 3 | 40mL AMBER/NONE | VOC | | | | |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

Received 9°C TM 4/1/15

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ALL SAMPLE/ALL ANALYSIS | [signature] | 3/30/15 | [signature] | 4/1/15 | 12:00 | All/Analysis | [signature] | 4/1/15 | [signature] | 4/1/15 | 1430 |
| | | | | | | | | | | | |
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☆ U.S. GPO: 2000-521-151

REAC, Edison NJ
(732) 321-4200
EPA Contract 68-C99-223

90-ERAS-270-LAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: ST. JOHN
Project Number: 56-001
LM Contact: DUBOIS Phone: 609-865-9304
M Barkley 808-702-1747

SJ2004

No: 06827
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

**Sample Identification** | **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles | Container/Preservative | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 55046 | LOWER KITCHEN | PW | 3/28/15 | 1 | 1 L AMBER | BROMATE | | | | | |
| | 55047 | UPPER KITCHEN | PW | 3/27/15 | 1 | 1 L AMBER | BROMATE | | | | | |
| | 55048 | TRIP BLANK | PW | 3/28/15 | 1 | 1 L AMBER | BROMATE | | | | | |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
~~W- Water~~
X- Other

Special Instructions:

Analyze for Bromide in Water per contract with Lockheed Martin

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ALL SAMPLES/ALL ANAL. | | 3/30/15 | | 4-1-15 | 0930 | | | | | | |
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REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS-270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: Solinski / Dubois Phone: x4283

No: 06828
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R504001

**Sample Identification** **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summa | Container/Preservative | Time | Volume | TO-15 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 02 | 55118 | "I" Upper | A | 3/28/15 | 1 | 6-L summa/none | 1451 | 6(L) | ✓ | | |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze by TO-15

55118 = Summa ID 14236

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 3/28/15 | [signature] | 4/1/15 | 12:00 | All/Analysis | [signature] | 4/1/15 | [signature] | 4/1/15 | 12:45 |

☆ U.S. GPO: 2000-521-151

REAC, Edis[illegible]
(732) 321-42[illegible]
EPA Contract 68-C99-223

SERAS-270-DAR-052715

# CHAIN OF CUST[illegible] RECORD

Project Name: 56-00[illegible]
Project Number: 56-001
LM Contact: Barkley Phone: 848-702-1747

P1501307

No: 06829
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

| | Sample Identification | | | | | | Analyses Requested | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of bottles (Puf) | Container/Preservative | Time | Volume | TO-10A | | |
| ① | 55044 | Lower Kitchen | A | 3/28/15 | 1 | glass jar/ice | 04:29 | 684(L) | ✓ | | |
| ② | 55045 | Lower Utility Room | A | 3/28/15 | 1 | ↓ | 04:29 | 720(L) | ✓ | | |

Matrix:
- A- Air
- AT-Animal Tissue
- DL- Drum Liquids
- DS- Drum Solids
- GW- Groundwater
- O- Oil
- PR-Product
- PT-Plant Tissue
- PW- Potable Water
- S- Soil
- SD- Sediment
- SL- Sludge
- SW- Surface Water
- TX-TCLP Extract
- W- Water
- X- Other

Special Instructions:
L- Liters
Puf/Tenax/Puf LOT # 8659/8817/8659
exp July 2015
SKC # 226-124
Extra pufs provided for method/LOT/BS/BSD

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/Analysis | [signature] | 3/28/15 | [signature] | | | | [signature] | | [signature] | 4/1/15 | 0950 |
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103

☆ U.S. GPO: 2000-521-151

COOLER TEMP: 11°C ICE MELTED

REAC, Edi[illegible] NJ
(732) 321-4200
EPA Contract 68-C99-223

L342797 GALSON

# CHAIN OF CUST[illegible] RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: Barkley Phone: 848-702-1747

No: 06830
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

119

## Sample Identification

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ tubes | Container/Preservative | Time | Volume | OSHA PV2040 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 55040 | Lower Kitchen | A | 3/28/15 | 1 | whirlpak/ice | ~~0429~~ 0429 | 691.2 | ✓ | | 226-83 |
| | 55041 | Lower KIT-LOW | | 3/27/15 | 1 | | 2229 | 25.0 | ✓ | | |
| | 55042 | Lower Utility Rm | | 3/28/15 | 1 | | 0429 | 626.4 | ✓ | | |
| | 55043 | Ambient | | 3/28/15 | 1 | | 0434 | 691.2 | ✓ | | |
| | 55119 | FIELD | | 3/28/15 | 1 | | 1600 | 0 | ✓ | | |
| | 55120 | TRIP | | 3/28/15 | 1 | | 1600 | 0 | ✓ | | SK 4/1/15 |

805443812687
Date:04/01/15
Shipper:FEDEX
Initials:SK
Prep:PSY336850

**Matrix:**

- A- Air
- AT-Animal Tissue
- DL- Drum Liquids
- DS- Drum Solids
- GW- Groundwater
- O- Oil
- PR-Product
- PT-Plant Tissue
- PW- Potable Water
- S- Soil
- SD- Sediment
- SL- Sludge
- SW- Surface Water
- TX-TCLP Extract
- W- Water
- X- Other

Special Instructions:

Analyze for methyl bromide following OSHA PV2040
Extra tubes provided for LOT BS/BSD
LOT #9219

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| All/Analyses | [signature] | 3/28/15 | | | | | | | | | |
| | | | | | | | | | M. Krause | 4/1/15 | 1047 |

104

☆ U.S. GPO: 2000-521-151

DERAS-270-DAR-052715

SERAS
~~REAC~~, Edis[illegible]U
(732) 321-42[illegible] EP-W-09-031
EPA Contract ~~68-C99-223~~

L342810

GALSON

SERAS-270-DAR-052715

# CHAIN OF CUST[illegible] RECORD

Project Name: 56-00[illegible]
Project Number: 56-001
LM Contact: Barkley Phone: 732-321-4200

No: 06831 (120)
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ WIPES | Container/Preservative | Analyses Requested: AREA | NIOSH 7903 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 55103 | Lower Hot Water | X | 3/27/15 | 1 | VIAL / ICE | 100cm² | ✓ | | | filter in vial |
| | 55104 | Lower Fume Hood | ↓ | ↓ | 1 | ↓ | 100cm² | ✓ | | | |
| | 55106 | Microwave | | | 1 | | 100cm² | ✓ | | | |
| | 55108 | Kitchen Counter | | | 1 | | 100cm² | ✓ | | | |
| | 55110 | Toilet Tank | | ↓ | 1 | | 100cm² | ✓ | | | |
| | 55121 | Background | | 3/28/15 | 1 | | 100cm² | ✓ | | | |
| | 55123 | BLANK | ↓ | ↓ | 1 | ↓ | 100cm² | ✓ | | | ↓ SK 4/1/15 |

AEA

AEA

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other WIPE

Special Instructions:
37mm PTFE WIPE LOT #189
Exp 8/31/19

Analyze following modified NIOSH 7903

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/ Analysis | [signature] | 3/28/15 | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | M. Krause | 4/1/15 | 1047 |

105

☆ U.S. GPO: 2000-521-151

REAC, Edison,
(732) 321-4200
EPA Contract 68-C99-223

SERAS-270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: Solinski / DuBois Phone: x 4283 609-865-9304

No: 06833
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R504001

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Time | Volume | TO-15 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 55112 | Ambient | A | 3/27/15 | 1 | 6-L Summa/none | 1634 | 6(L) | ✓ | | |
| 02 | 55113 | Lower kitchen | ↓ | ↓ | 1 | ↓ | 1558 | 6(L) | ✓ | | |

AO

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze for TO-15
55112 = Summa ID 209
55113 = Summa ID 266

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/Analysis | [signature] | 3/27/15 | [signature] | 4/1/15 | 12:00 | All/Analysis | [signature] | 4/1/15 | [signature] | 4/1/15 | 12:45 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

☆ U.S. GPO: 2000-521-151

REAC, Edison,
(732) 321-4200
EPA Contract 68-C99-223

SERAS-270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: DuBois Phone: 609-865-9304

No: 06834
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R504001

**Sample Identification** | **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # ~~of Bottles~~ Summa | Container/Preservative | Time | Volume | TO-15 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | 55114 | Lower Utility Rm | A | 3/27/15 | 1 | 6-L summa/none | 1600 | 6(L) | ✓ | | |
| 04 | 55115 | TRIP | ↓ | ↓ | 1 | 6-L Summa/none | 1630 | 0(L) | ✓ | | |

AEA

AEA

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze for TO-15
55114 = Summa ID 14225
55115 = " " 14066

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/Analysis | [signature] | 3/27/15 | [signature] | 4/1/15 | 12:00 | All/Analysis | [signature] | 4/1/15 | [signature] | 4/1/15 | 12:45 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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☆ U.S. GPO: 2000-521-151

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS#270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: Solinski/Dubois Phone: x 4283

No: 06835
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R504001

**Sample Identification** | **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summa | Container/Preservative | Time | Volume | TO-15 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 | 55116 | Background | A | 3/28/15 | 1 | 6-L summa/none | 1345 | 6(L) | ✓ | | |
| 06 | 55117 | "I" lower | ↓ | ↓ | 1 | 6-L summa/none | ~~1352~~ 1405 | 6(L) | ✓ | | |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze for ~~Z~~ AD TO-15
55116 = Summa ID 14075
55117 = " " 14255

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| All Analysis | [signature] | 3/28/15 | [signature] | 4/1/15 | 12:00 | All/Analysis | [signature] | 4/1/15 | [signature] | 4/1/15 | 12:45 |

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS 270 DAR 052715

# CHAIN OF CUSTODY RECORD

Project Name: St. Johns ER
Project Number: 270
LM Contact: Josie Yousefan Phone: 908 415-3546

No: 06837
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R504007

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | ~~# of Bottles~~ Summas | Container/Preservative | Date | Time | Volume | ~~Hold~~ TO-15 | Summa |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 09821 | Kitchen/upper | A | 4/14/15 | 1 | Summa/None | 4/14/15 | 1545 | 6L | ✓ | 14253 |
| 02 | 09822 | Kitchen/Lower | A | 4/14/15 | 1 | Summa/none | 4/14/15 | 1600 | 6L | ✓ | 14233 |

AY AY AY AY AY

**Matrix:**

- A- Air
- AT-Animal Tissue
- DL- Drum Liquids
- DS- Drum Solids
- GW- Groundwater
- O- Oil
- PR-Product
- PT-Plant Tissue
- PW- Potable Water
- S- Soil
- SD- Sediment
- SL- Sludge
- SW- Surface Water
- TX-TCLP Extract
- W- Water
- X- Other

Special Instructions:
Grab Samples -
Analyze for - TO-15
Upper/Lower "J"

Pressure:
09821 - (-29.2)
09822 - (-29.1)

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 4/14/15 | [signature] | 4/16/15 | 11:00 | All/Analysis | [signature] | 4/16/15 | [signature] | 4/16/15 | 11:40 |

☆ U.S. GPO: 2000-521-151

SERAS
~~REAC~~, Edison, NJ
(732) 321-4200 EP-W-09-031
EPA Contract 68-C99-223

GALSON

# CHAIN OF CUSTODY RECORD

Project Name: SERAO3 SER00270
Project Number: -270
LM Contact: Barkley Phone: 732-321-4200

No: 06838 (129)
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

SERAS-270-BAR-052715

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles (WIPES) | Container/Preservative | Area | NIOSH 7903 | Time | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 09830 | LawJ-Kitchen Floor | X | 4/15/15 | 1 | GALSON VIAL/ICE | 100cm² | ✓ | 1315 | | |
| | 09831 | LawJ-Kitchen wall | | | 1 | | 100cm² | ✓ | 1317 | | |
| | 09832 | LawJ-Master floor | | | 1 | | | ✓ | 1320 | | |
| | 09833 | LawJ-Master wall | | | 1 | | | ✓ | 1322 | | |
| | 09834 | LawJ-BR floor | | | 1 | | | ✓ | 1325 | | |
| | 09835 | LawJ-BR wall | | | 1 | | | ✓ | 1326 | | |
| | 09836 | Template Blank | | | 1 | | | | 1330 | | |

04 04 04

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

37mm PTFE Wipes Lot #318 ex. 12/31/16
Analyze for Bromide - following modified NIOSH 7903
WIPE. IN vial 4/16/15 SK

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [illegible] | 4/15/15 | | | | | | | | | |
| 110 | | | | | | | | | | | |
| | | | | | | | | | M. Krause | 4/16/15 | 1010 |

Custody seal intact. SK 4/16/15

SERAS
~~REAC~~, Edis[illegible] J
(732) 321-4200 EP-W-09-031
EPA Contract 68-C99-223

GALSON

SERAS-270-DAR-052715

**CHAIN OF CUST[illegible] RECORD**

Project Name: SERA03-SER00270
Project Number: SER00270
LM Contact: Barkley Phone: 732-321-4200

ND By 12 pm dy
Misty to paw

No: 06839
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

120

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles (wipes) | Container/Preservative | Area | NIOSH 7903 | Time |
|---|---|---|---|---|---|---|---|---|---|
| | 09823 | UpJ-Kitchen floor | X | 4/15/15 | 1 | GALSON VIAL/ICE | 100cm² | ✓ | 1235 |
| | 09824 | UpJ-Kitchen wall | | | 1 | | 100cm² | ✓ | 1237 |
| | 09825 | UpJ-Master wall | | | 1 | | 100cm² | ✓ | 1240 |
| | 09826 | UpJ-Master floor | | | 1 | | 100cm² | ✓ | 1242 |
| | 09827 | UpJ-BR floor | | | 1 | | 100cm² | ✓ | 1245 |
| | 09828 | UpJ-BR wall | | | 1 | | 100cm² | ✓ | 1248 |
| | 09829 | Template Blank | | | 1 | | 100cm² | ✓ | 1251 |

QY

QY

QY

806761157106
Date:04/16/15
Shipper:FEDEX
Initials:sk
Prep:PSY338758

Matrix:

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
37mm PTFE wipes LOT #318 ex 12/31/16
Analyze for Bromide - following modified NIOSH 7903
Wipe in vial 4/16/15 sk

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | Jon [illegible] | 4/15/15 | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | M. Kraus | 4/16/15 | 1010 |

111

☆ U.S. GPO: 2000-521-151

custody seals intact 4/16/15 sk

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS#270DAR-052775

# CHAIN OF CUSTODY RECORD

Project Name: D-[illegible]O
Project Number: SERA05-SER00270
LM Contact: J. Yaesefan Phone: 9084153546

No: 06840
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R504010

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Date | Time | Volume | MeBr | Summa |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 09837 | UpJ-Kitchen | A | 4/17/15 | 1 | Summa/none | 4/17/15 | 0859 | 6(L) | ✓ | 112 |
| 02 | 09838 | LowJ-Kitchen | A | 4/17/15 | 1 | Summa/none | 4/17/15 | 0909 | 6(L) | ✓ | 194 |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze for Methyl Bromide Upper/Lower "J" Kitchen Grab samples.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| V/Analysis | Josee [signature] | 4/17/15 | [signature] | 4/20/15 | 9:40 | All/Analysis | [signature] | 4/20/15 | [signature] | 4/20/15 | 10:10 |



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EPA Contract 68-C99-223

SERAS-270 DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: SERA03 ER00270
Project Number: 0-270
LM Contact: J. Yousefan Phone: 9084153546

No: 06843
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R504011

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Time | Sample | Summa# | Volume | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 09909 | St Thomas North of Island | A | 4/18/15 | 1 | Summa/None | 1850 | Grab | 14071 | 6(L) | ✓ |
| 14 | 09911 | Trip Blank | A | " | 1 | Summa/None | 1200 | - | 14242 | 6(L) | ✓ |

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

To analyze outdoor grab sample for TO-15 Trip blank included.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 4/20/15 | [signature] | 4/21/15 | 12:00 | All/Analysis | [signature] | 4/21/15 | [signature] | 4/21/15 | 14:00 |

☆ U.S. GPO: 2000-521-151

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(732) 321-4200
EPA Contract 68-C99-223

SERAS 270 DAR 052715

# CHAIN OF CUSTODY RECORD

Project Name: SERA03 ER00270
Project Number: 0-270
LM Contact: J. Yousefan Phone: 9084153546

No: 06841
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# 504011

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | Summa # of Bottles | Container/Preservative | START PRESSURE | FINAL PRESSURE | Summa # | Orifice # | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 07 | 09906 | Bedroom/Lower J | A | 4/18-4/19/15 | 1 | Summa/None | -29 | -4.5 | 14238 | 13914 | ✓ |
| 08 | 09908 | Patio/Lower J | A | 4/18-4/19/15 | 1 | Summa/None | -29 | -4.0 | 14068 | 13956 | ✓ |

**Matrix:**

A- Air
AT- Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze 24-hour summa for TO-15

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 Analysis | [signature] | 4/20/15 | [signature] | 4/21/15 | 12:00 | All/Analysis | [signature] | 4/21/15 | [signature] | 4/21/15 | 14:10 |

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SERA270PAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: O-2
Project Number: SERAD5-SER00270
LM Contact: J. Yousefan Phone: 908 4153546

No: 06860
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R504010

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles (Summas) | Container/Preservative | Date | Time | Volume | MeBr | Summa |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 | 09839 | LowJ-Bag | A | 4/17/15 | 1 | Summa/None | 4/17/15 | 0927 | 6(L) | ✓ | 127 |
| 04 | 09840 | Trip Blank | A | 4/17/15 | 1 | Summa/None | 4/17/15 | 1230 | 6(L) | ✓ | 13735 |

Matrix:
- A- Air
- AT-Animal Tissue
- DL- Drum Liquids
- DS- Drum Solids
- GW- Groundwater
- O- Oil
- PR-Product
- PT-Plant Tissue
- PW- Potable Water
- S- Soil
- SD- Sediment
- SL- Sludge
- SW- Surface Water
- TX-TCLP Extract
- W- Water
- X- Other

Special Instructions:
Analyze for Methyl Bromide
Lower clothing bag, grab sample.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| All Analysis | [signature] | 4/17/15 | [signature] | 4/20/15 | 9:40 | All/Analysis | [signature] | 4/20/15 | [signature] | 4/20/15 | 10:10 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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EPA Contract 68-C99-223

SERAS#570-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: SERAO SER00270
Project Number: 0-270
LM Contact: J Yousefan Phone: 9084153546

No: 06862
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R504011

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | Summas # of ~~Bottles~~ | Container/Preservative | Start Pressure | Final Pressure | Summa# | Orifice# | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | 09907 | Kitchen/Upper J | A | 4/18-4/19/15 | 1 | Summa/None | -29 | -3.5 | 14254 | 14011 | ✓ |
| 04 | 09902 | Master/Upper J | A | 4/18-4/19/15 | 1 | Summa/None | -29.1 | -2.5 | 14245 | 13991 | ✓ |

QY

QY

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze 24-hour Summa for TO-15

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 4/20/15 | [signature] | 4/21/15 | 12:00 | All/Analysis | [signature] | 4/21/15 | [signature] | 4/21/15 | 14:10 |

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EPA Contract 68-C99-223

SERAS270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: SERA03 SER00270
Project Number: 0-270
LM Contact: J. Yousefan Phone: 9084153546

No: 06863
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R504011

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | Summas # of ~~Bottles~~ | Container/Preservative | Time | Sample | Summa# | Volume | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 | 09913 | ClubHouse AA | A | 4/19/15 | 1 | Summa/None | 1245 | Grab | 1133 | 6(L) | ✓ |
| 10 | 09914 | LowPorch AA(L) | A | 4/19/15 | 1 | Summa/None | 1252 | Grab | 185 | 6(L) | ✓ |

QY

QY

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze Grab Samples for TO-15 (outdoor grabs)

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 Analysis | [signature] | 4/20/15 | [signature] | 4/21/15 | 12:00 | All/Analysis | [signature] | 4/21/15 | [signature] | 4/21/15 | 14:10 |

☆ U.S. GPO: 2000-521-151

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EPA Contract 68-C99-223

SERAC-270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: SERAC-SER00270
Project Number: 0-270
LM Contact: J. Yousefan Phone: 9084153546

No: 06865
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R504011

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | Summas # of ~~Bottles~~ | Container/Preservative | START PRESSURE | FINAL PRESSURE | Summa# | Orifice# | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 09910 | BR1/Upper J | A | 4/18/15-4/19/15 | 1 | Summa/None | -29.1 | -7.0 | 14403 | 13955 | ✓ |
| 02 | 09903 | BR2/Upper J | A | 4/18/15-4/19/15 | 1 | Summa/None | -29 | -4.0 | 150 | 14016 | ✓ |

OK

OK

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyzer 24-hour Summa for TO-15.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 4/20/15 | [signature] | 4/21/15 | 12:00 | All/Analysis | [signature] | 4/21/15 | [signature] | 4/21/15 | 14:10 |

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EPA Contract 68-C99-223

SERAS 270 DAR 052715

# CHAIN OF CUSTODY RECORD

Project Name: SERAO[illegible] SER00270
Project Number: 0-270
LM Contact: J. Yousefan Phone: 9084153546

No: 06866
Sheet 01 of 01 (Do not copy).
(for addnl. samples use new form)

WO# R504011

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | Summas # of Bottles | Container/Preservative | START PRESSURE | FINAL PRESSURE | Summa# | Orifice# | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 | 09904 | Kitchen/Lower J | A | 4/18-4/19/15 | 1 | Summa/None | -29 | -2.6 | 14396 | 13762 | ~~DKI~~ ✓ |
| 06 | 09905 | Master/Lower J | A | 4/18-4/19/15 | 1 | Summa/None | -29 | -4.0 | 13741 | 14014 | ✓ |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze 24-hour samples for TO-15

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 4/20/15 | [signature] | 4/21/15 | 12:00 | All/Analysis | [signature] | 4/21/15 | [signature] | 4/21/15 | 14:10 |

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(732) 321-4200
EPA Contract 68-C99-223

SERAS#270DAR-052715

WO#R504011

# CHAIN OF CUSTODY RECORD

Project Name: SERAS-SER00270
Project Number: 0-270
LM Contact: J. Youseffan Phone: 9084153546

No: 06867
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summa | Container/Preservative | Time | Sample | Summa | Volume | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 09915 | Ferry | A | 4/19/15 | 1 | Summa/None | 1830 | Grab | 77 | 6(L) | ✓ |
| 12 | 09916 | Route 315 | A | 4/19/15 | 1 | Summa/None | 2015 | Grab | 16 | 6(L) | ✓ |

Matrix:

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze TO-15 Grab Summa.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Analysis | [signature] | 4/20/15 | [signature] | 4/21/15 | 12:00 | All Analysis | [signature] | 4/21/15 | [signature] | 4/21/15 | 14:10 |

REAC, Edison, N
(732) 321-4200
EPA Contract 68-C99-223

SERAS#270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: SERA03-SER00270
Project Number: 0-270
LM Contact: J. Yousefan Phone: 9084153546

No: 06870
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R505004

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Time | Volume | Summa | Final Pressure | MeBr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 9931 | Living room | A | 5/13/15 | 1 | Summa/none | 1420 | 6(L) | 14247 | 0 | ✓ |
| 02 | 9932 | Living room/kitchen | A | 5/14/15 | 1 | Summa/none | 0932 | 6(L) | 13758 | 0 | ✓ |

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
Analyze Grab Samples for Bromo Methane.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 5/14/15 | [signature] | 5/15/15 | 9:05 | All/Analysis | [signature] | 5/15/15 | [signature] | 5/15/15 | 10:00 |

REAC, Edison, N
(732) 321-4200
EPA Contract 68-C99-223

ERAS#270-DAR-052715

# CHAIN OF CUSTO RECORD

Project Name: St. John ER
Project Number: 270
LM Contact: A. DuBois Phone: —

No: 06875
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R505003

**Sample Identification**

**Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles | Container/Preservative | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.3 | 09893 | Kitchen/Dry wall | Air | 5/13/15 | 1 | GLASS - JAR | | | | | |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

TO-15 Methyl Bromide
Dry wall Cutting For Headspace Analysis

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

Received Room Temp. TM 5/14/15

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| All/Analysis | [illegible] | 5/13/15 | [illegible] | 5/14/15 | 10:45 | All/Analysis | [illegible] | 5/15/15 | [illegible] | 5/15/15 | 10:00 |

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS-870-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: St. Joh[illegible]ER
Project Number: 270
LM Contact: _____ Phone: _____

No: 06874
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R505003

**Sample Identification** | **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | ~~# of Bottles~~ | Container/Preservative |
|---|---|---|---|---|---|---|
| 01 | 09891 | Kitchen/Wall | Air | 5/13/15 | Summa | Canister |
| 02 | 09892 | Kitchen/Ceiling | Air | 5/12/15 | Summa | Canister |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

TO-15 Methyl Bromide

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Analysis/All | [signature] | 12/13/15 | [signature] | 5/14/15 | 10:45 | All/Analysis | [signature] | 5/14/15 | [signature] | 5/14/15 | 1150 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

23

☆ U.S. GPO: 2000-521-151

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS-270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: SERAO SER00270
Project Number: SER00270
LM Contact: J. Yousefan Phone: 9084153546

No: 06885
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R505006

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Analyses Requested: Summa # | Orifice # | Start Pressure | Stop Pressure | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | 9939 | Bedroom | A | 5/16-5/17/15 | 1 | Summa/None | 14401 | 13918 | -29.0 | -4.5 | ✓ |
| 04 | 9940 | Patio AA | A | 5/16-5/17/15 | 1 | Summa/None | 14236 | 13785 | -29.1 | -2.5 | ✓ |

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze Summa 24-hour Samples for ~~Fo~~ ~~TO-15~~ Bromo Methane.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 5/18/15 | [signature] | 5/19/15 | 11:00 | All/Analysis | [signature] | 5/19/15 | [signature] | 5/19/15 | 12:05 |

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS-270-DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: SERAO SER00270
Project Number: SER00270
LM Contact: J. Yousefan Phone: 9084153546

No: 06086
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R505006

**Sample Identification** — **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Summa # | Orifice # | Start Pressure | Stop Pressure | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 | 9941 | Dup Kitchen/Living room | A | 5/16-5/17/15 | 1 | Summa/None | 14068 | 13784 | -29.0 | -29.2 | ✓ |
| 06 | 9942 | TRIPBLANK | A | 5/16-5/17/15 | 1 | Summa/None | 14218 | — | -29.2 | -3.5 | ✓ |

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
Analyze Summa 24-hour Samples for ~~Full~~ ~~TO-15~~. Bromo Methane

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 5/18/15 | [signature] | 5/19/15 | 11:00 | All/Analysis | [signature] | 5/19/15 | [signature] | 5/19/15 | 12:00 |

☆ U.S. GPO: 2000-521-151

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS#270 DAR-052715

# CHAIN OF CUSTODY RECORD

Project Name: SERAO SER00270
Project Number: SER00270
LM Contact: J. Yousefan Phone: 9084153546

No: 06887
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R505006

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Summa# | Orifice# | Start Pressure | Stop Pressure | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 9937 | Kitchen/Living room | A | 5/16-5/17/15 | 1 | Summa/None | 14248 | 13984 | -29.0 | -5.0 | ✓ |
| 02 | 9938 | Master Bedroom | A | 5/16-5/17/15 | 1 | Summa/None | 14231 | 13917 | -29.4 | -3.5 | ✓ |

JY

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze Summa 24-hour Samples for ~~Stat~~ ~~TO-15~~ JY Bromo Methane

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 5/18/15 | [signature] | 5/19/15 | 11:00 | All/Analysis | [signature] | 5/19/15 | [signature] | 5/19/15 | 12:00 |

☆ U.S. GPO: 2000-521-151

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS270DAR052715

# CHAIN OF CUSTODY RECORD

Project Name: SERA03 SER00270
Project Number: SER00270
LM Contact: J. Yousefan Phone: 9084153546

No: 06890
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R505005 **Sample Identification** **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summa | Container/Preservative | Time | Volume | Summa | end pressure | MeBr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 9935 | Kitchen Cabinet | A | 5/15/15 | 1 | summa/none | 1325 | 6(L) | 14225 | 0 | ✓ |
| 02 | 9936 | Ambient Patio | A | 5/15/15 | 1 | summa/none | 1325 | 6(L) | 13945 | 0 | ✓ |
| | | | | | | | | | 7 ↑gy | | |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Analyze Summa Grab Samples for Bromo Methane. One inside cabinet in kitchen

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 5/15/15 | [signature] | 5/16/15 | 12:40 | 1/Analysis | [signature] | 5/18/15 | [signature] | 5/18/15 | 8:25 |
| All/Analysis | [signature] | 5/18/15 | [signature] | 5/18/15 | 08:20 | | | | | | |

REAC, Edison
(732) 321-4200
EPA Contract 68-C99-223

TRAS-270-DRR-052715

# CHAIN OF CUSTODY RECORD

Project Name: 56-001
Project Number: 56-001
LM Contact: Barkley Phone: 732-321-4200

SI 2005

No: 07600
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles (wipes) | Container/Preservative | Area (cm²) | Pesticides | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 55102 | Lower Hot Water Tank | X | 3/27/15 | 1 | amber jar/ice | 100 | ✓ | | | |
| | 55105 | Lower Furnace Hood | | 3/27/15 | 1 | | 100 | ✓ | | | |
| | 55107 | Lower Microwave | | 3/27/15 | 1 | | 100 | ✓ | | | |
| | 55109 | Lower kitchen Counter | | 3/27/15 | 1 | | 100 | ✓ | | | |
| | 55111 | Lower toilet tank | | 3/27/15 | 1 | | 100 | ✓ | | | |
| | 55122 | Background | | 3/28/15 | 1 | | 100 | ✓ | | | |
| | 55124 | Blank | ↓ | 3/28/15 | 1 | ↓ | 100 | ✓ | | | |

Matrix:

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other WIPES

Special Instructions:
Analyze for Pesticides following SW 846-8081A

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Analysis | | 3/30/15 | | 4-1-15 | 09:20 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

**USEPA**
DateShipped: 4/6/2015
CarrierName: FedEx
AirbillNo: 8067 6116 5619
WO# R504004

**CHAIN OF CUSTODY RECORD**
St. John Methyle Bromide ER
Contact Name: Peter Lisichenko
Contact Phone: 603-512-4350

**No: 2-040615-130309-0001**
Cooler #: 1
Lab: ERT/SERAS
Lab Phone: 732-321-4200

| Lab # | Sample # | Location | Analyses | Matrix | Collected | Sample Time | Numb Cont | Container | Preservative | Canister | Lab QC | START PRESSURE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | P001-AA-U-150405-09 | NA | VOC + TICs | Air | 4/5/2015 | 11:30 | 1 | Summa Canister | None | 122 | N | -29 |
| 02 | TB-150405 | NA | VOC + TICs | Air | 4/5/2015 | 11:30 | 1 | Summa Canister | None | 213 | N | — |

Special Instructions: VOC + Tics via SERAS SOP 1814

**SAMPLES TRANSFERRED FROM**
**CHAIN OF CUSTODY #**

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| ALL SAMPLES ALL ANALYSIS | (WESTON) | 4/6/15 | /SERAS | 4/7/15 10:50 | Intact |
| All/Analysis | /SERAS | 4/7/15 11:30 | /SERAS | 4/7/15 11:30 | |
| | | | | | |
| | | | | | |
| | | | | | |

**USEPA**
DateShipped: 4/6/2015
CarrierName: FedEx
AirbillNo: 8067 6116 5619
WO# RS04004

**CHAIN OF CUSTODY RECORD**
St. John Methyle Bromide ER
Contact Name: Peter Lisichenko
Contact Phone: 603-512-4350

**No: 2-040615-131356-0002**
Cooler #: 2
Lab: ERT/SERAS
Lab Phone: 732-321-4200

| Lab # | Sample # | Location | Analyses | Matrix | Collected | Sample Time | Numb Cont | Container | Preservative | Canister | Lab QC | START PRESSURE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | P001-IA-L-140405-01 | Lower | VOC + TICs | Indoor Air | 4/5/2015 | 10:30 | 1 | Summa Canister | None | 014256 | N | -28.5 |
| 04 | P001-IA-L-140405-02 | Lower | VOC + TICs | Indoor Air | 4/5/2015 | 10:32 | 1 | Summa Canister | None | 14219 | N | -29 |

Special Instructions: VOC + Tics via SERAS SOP 1814

**SAMPLES TRANSFERRED FROM**
**CHAIN OF CUSTODY #**

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| ALL SAMPLES ALL ANALYSIS | 4/6/15 | | /SERAS | 4/7/15 10:50 | Intact |
| All/Analysis | /SERAS | 4/8/15 11:30 | /SERAS | 04/07/15 1[illegible] | |
| | | | | | |
| | | | | | |
| | | | | | |

**USEPA**
DateShipped: 4/6/2015
CarrierName: FedEx
AirbillNo: 8067 6116 5619
WO# R504004

**CHAIN OF CUSTODY RECORD**
St. John Methyle Bromide ER
Contact Name: Peter Lisichenko
Contact Phone: 603-512-4350

**No: 2-040615-131418-0003**
Cooler #: 3
Lab: ERT/SERAS
Lab Phone: 732-321-4200

| Lab # | Sample # | Location | Analyses | Matrix | Collected | Sample Time | Numb Cont | Container | Preservative | Canister | Lab QC | START PRESSURE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 | P001-IA-L-140405-03 | Lower | VOC + TICs | Indoor Air | 4/5/2015 | 10:33 | 1 | Summa Canister | None | 13753 | N | -29 |
| 06 | P001-IA-L-140405-04 | Lower | VOC + TICs | Indoor Air | 4/5/2015 | 10:35 | 1 | Summa Canister | None | 13745 | N | -29 |

Special Instructions: VOC + Tics via SERAS SOP 1814

**SAMPLES TRANSFERRED FROM**
**CHAIN OF CUSTODY #**

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| ALL SAMPLES ALL ANALYSES | WESTON | 4/6/15 | /SERAS | 4/7/15 10:50 | Intact |
| All/Analysis | /SERAS | 4/7/15 11:30 | /SERAS | 4/7/15 11:30 | |
| | | | | | |
| | | | | | |
| | | | | | |

**USEPA**
DateShipped: 4/6/2015
CarrierName: FedEx
AirbillNo: 8067 6116 5619
WO# R504004

**CHAIN OF CUSTODY RECORD**
St. John Methyle Bromide ER
Contact Name: Peter Lisichenko
Contact Phone: 603-512-4350

**No: 2-040615-131439-0004**
Cooler #: 4
Lab: ERT/SERAS
Lab Phone: 732-321-4200

| Lab # | Sample # | Location | Analyses | Matrix | Collected | Sample Time | Numb Cont | Container | Preservative | Canister | Lab QC | START PRESSURE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07 | P001-IA-U-140405-05 | Upper | VOC + TICs | Indoor Air | 4/5/2015 | 11:07 | 1 | Summa Canister | None | 008 | N | -29 |
| 08 | P001-IA-U-140405-06 | Upper | VOC + TICs | Indoor Air | 4/5/2015 | 11:08 | 1 | Summa Canister | None | 156 | N | -29 |

Special Instructions: VOC + Tics via SERAS SOP 1814

**SAMPLES TRANSFERRED FROM**
**CHAIN OF CUSTODY #**

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| ALL SAMPLES/ ALL ANALYSIS | (WESTON) | 4/6/15 | /SERAS | 4/7/15 10:50 | Intact |
| All/Analysis | /SERAS | 4/7/15 11:30 | /SERAS | 4/7/15 11:30 | |
| | | | | | |
| | | | | | |
| | | | | | |

SERAS-270-DAR-052715

**USEPA**
DateShipped: 4/6/2015
CarrierName: FedEx
AirbillNo: 8067 6116 5619
WO# RS04004

**CHAIN OF CUSTODY RECORD**
St. John Methyle Bromide ER
Contact Name: Peter Lisichenko
Contact Phone: 603-512-4350

**No: 2-040615-131510-0005**
Cooler #: 5
Lab: ERT/SERAS
Lab Phone: 732-321-4200

| Lab # | Sample # | Location | Analyses | Matrix | Collected | Sample Time | Numb Cont | Container | Preservative | Canister | Lab QC | START PRESSURES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 | P001-IA-U-140405-07 | Upper | VOC + TICs | Indoor Air | 4/5/2015 | 11:10 | 1 | Summa Canister | None | 014234 | N | -29 |
| 10 | P001-IA-U-140405-08 | Upper | VOC + TICs | Indoor Air | 4/5/2015 | 11:11 | 1 | Summa Canister | None | 014240 | N | -29 |

Special Instructions: VOC + Tics via SERAS SOP 1814

**SAMPLES TRANSFERRED FROM**
**CHAIN OF CUSTODY #**

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| ALL SAMPLES ALL ANALYSES | WESTON | 4/6/15 | /SERAS | 4/7/15 10:50 | Intact |
| All Analysis | /SERAS | 4/7/15 11:30 | /SERAS | 4/7/15 11:30 | |
| | | | | | |
| | | | | | |
| | | | | | |

SERAS-270-DAR-052715

**USEPA**
DateShipped: 5/3/2015
Passanger
AirbillNo:
WO# R505002

**CHAIN OF CUSTODY RECORD**
Site #: 270
Josie Yousefan
908-415-3546

**No: 2-050215-174218-0042**
Cooler #:
SERAS
732-321-4200

| Lab # | Sample # | Location | Sub Location | Matrix | Sample Media | Pump # | OrificeID | Start Flow Rate | Start Pressure | Stop Pressure | Start_ Date | Start_ Time | Stop_ Date | Stop_ Time | Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 9874 | Master | Lower | Air | Summa Canister | 14405 | 13783 | 3.67 | -29.5 | -4 | 5/1/2015 | 3:12:00 PM | 5/2/2015 | 2:52:00 PM | EPA TO-15 |
| 02 | 9873 | KItchen/Living Room | Lower | Air | Summa Canister | 101 | 13928 | 3.66 | -29.5 | 0 | 5/1/2015 | 3:12:00 PM | 5/2/2015 | 2:52:00 PM | EPA TO-15 |

Special Instructions: 24-hour summa sampling event for clearance sampling analyze for TO-15

**SAMPLES TRANSFERRED FROM**
**CHAIN OF CUSTODY #**

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| 1/Analysis | | 5/3/15 | | 5/3/15 9:00 | |
| Analysis | | 5/10/15 | SERAS | 5/3/15 18:15 | In Tack |
| Login | | 5/4/15 | /SERAS | 5/4/15 9:30 | Intact |
| All/Analysis | /SERAS | 5/4/15 10:00 | /SERAS | 5/4/15 10:00 | Intact |

SERAS-270-DAR-052715

**USEPA**
DateShipped: 5/3/2015
Passanger
AirbillNo:
WO# R505002

**CHAIN OF CUSTODY RECORD**
Site #: 270
Josie Yousefan
908-415-3546

**No: 2-050215-174342-0043**
Cooler #:
SERAS
732-321-4200

| Lab # | Sample # | Location | Sub Location | Matrix | Sample Media | Pump # | OrificeID | Start Flow Rate | Start Pressure | Stop Pressure | Start_ Date | Start_ Time | Stop_ Date | Stop_ Time | Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | 9875 | Bedroom | Lower | Air | Summa Canister | 137 | 14029 | 3.55 | -29.5 | -6 | 5/1/2015 | 3:13:00 PM | 5/2/2015 | 2:54:00 PM | EPA TO-15 |
| 04 | 9876 | Patio AA | Lower | Air | Summa Canister | 163 | 13948 | 3.69 | -29.5 | -3 | 5/1/2015 | 3:14:00 PM | 5/2/2015 | 2:55:00 PM | EPA TO-15 |

Special Instructions: 24-hour summa sampling event for clearance sampling analyze for TO-15

**SAMPLES TRANSFERRED FROM**
**CHAIN OF CUSTODY #**

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| 1/Analysis | | 5/3/15 | | 5/3/15 9:00 | |
| Analysis | | 5/3/15 | SERAS | 5/3/15 19:15 | Intact |
| All Analysis | /SERAS | 5/4/15 | /SERAS | 5/4/15 9:30 | Intact |
| All/Analysis | /SERAS | 5/4/15 10:00 | /SERAS | 5/4/15 10:00 | Intact |

SERAS-270-DAR-052715

**USEPA**
DateShipped: 5/3/2015
Passanger
AirbillNo:
WO# R505002

**CHAIN OF CUSTODY RECORD**
Site #: 270
Josie Yousefan
908-415-3546

**No: 2-050215-174439-0044**
Cooler #:
SERAS
732-321-4200

| Lab # | Sample # | Location | Sub Location | Matrix | Sample Media | Pump # | OrificeID | Start Pressure | Start_Date | Start_Time | Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 | 9877 | Trip Blank | Lower | Air | Summa Canister | 223 | 13954 | -29.5 | 5/1/2015 | 1:00:00 PM | EPA TO-15 |

| | |
|---|---|
| Special Instructions: 24 hour summa clearance sampling event to be analyzed for TO-15 TRIP BLANK | **SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #** |

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| 1/Analysis | | 5/3/15 | | 5/3/15 [illegible] | |
| Analysis | | 5/3/15 | /SERAS | 5/3/15 16:15 | Intact |
| Analysis | | 5/4/15 | /SERAS | 5/4/15 9:30 | Intact |
| All/Analysis | /SERAS | 5/4/15 10:00 | /SERAS | 5/4/15 10:00 | Intact |

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN

St. John Methyl Bromide Site
St. John, USVI

June 2015

EPA Work Assignment No. SERAS-270
LOCKHEED MARTIN Work Order No. SER00270
EPA Contract No. EP-W-09-031

Submitted to
R. Singhvi
EPA/ERT
2890 Woodbridge Avenue
Edison, NJ 08837

6/18/15

D. Killeen
QA/QC Officer

Date

6/18/15

K. Taylor
Program Manager

Date

Analysis by:
ERT/SERAS Laboratory

Prepared by:/Reviewed by:
Y. Mehra/ A. LoSurdo
Y.Mehra

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## TESTING LABORATORIES INFORMATION

Analysis of Volatile Organic Compounds in Air by SERAS SOP #1814, *"Analysis of Volatile Organic Compounds (VOCs) in SUMMA Canister Air Samples by Gas Chromatography/Mass Spectrometry (GC/MS)"*

ERT/SERAS Laboratory
2890 Woodbridge Avenue
Edison, NJ 08837

All analyses were performed according to our NELAP-approved quality assurance program. The test results meet the requirements of the current NELAP standards, where applicable, except as noted in the laboratory case narrative provided. Results are intended to be considered in their entirety and apply only to those analyzed and reported herein.

ERT/SERAS Laboratory is certified by the New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID # 12023 for VOC analysis in air.

## Detailed Sample Information

| Laboratory Sample # | Field Sample # |
|---|---|
| R506003-01 | 9951 |
| R506003-02 | 9952 |
| R506003-03 | 9953 |
| R506004-01 | 9954 |
| R506004-02 | 9955 |
| R506004-03 | 9956 |
| R506004-04 | 9957 |
| R506006-01 | 9881 |
| R506006-02 | 9882 |
| R506006-03 | 9883 |
| R506006-04 | 9884 |
| R506006-05 | 9885 |

## Introduction

SERAS personnel, in response to WA# SERAS-270, provided analytical support for environmental samples collected from the St. John Methyl Bromide Site in St. John, USVI as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

The samples analyzed at SERAS were treated with procedures consistent with those specified in SERAS SOP #1008, *Sample Receiving, Handling and Storage.*

| Chain of Custody # | Number of Samples | Sampling Date | Date Received | Date Analyzed | Matrix | Analysis/ Method | Laboratory | Data Package |
|---|---|---|---|---|---|---|---|---|
| 06880 | 2 | 06/02/15 | 06/04/15 | 06/05/15 | Air | VOC/SERAS SOP# 1814 | ERT/SERAS | AA 092 |
| 06881 | 1 | 06/03/15 | | | | | | |
| 07525 | 2 | 06/05/15 | 06/06/15 | 06/06/15 | | | | AA 093 |
| 06832 | 1 | | | | | | | |
| | 1 | 06/04/15 | | | | | | |
| 06892 | 2 | 06/07/15 | 06/09/15 | 06/09/15 | | | | AA 095 |
| 06893 | 2 | | | | | | | |
| 06888 | 1 | | | | Trip Blank | | | |

## Case Narrative

Sampling was conducted as per the site-specific Quality Assurance Project Plan (QAPP) and analyzed by the analytical methods as stated in the QAPP. The laboratory reported the data to three significant figures. Any other representation of the data is the responsibility of the user. Data were validated using a Stage 4 validation done manually (S4VM) in accordance with the "Guidance for Labeling Externally Validated Data for Superfund Use." All data validation flags have been inserted into the results tables.

<u>VOCs in Air Package AA 092, AA 093 and AA 095</u>

The data were examined and found to be acceptable.

*The results presented in this report only relate to the samples analyzed. All results are intended to be considered in their entirety. The Environmental Response Team/Scientific, Engineering, Response and Analytical Services laboratory is not responsible for utilization of less than the complete report.*

**REPORT OF LABORATORY ANALYSIS**
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**Summary of Abbreviations**

| | |
|---|---|
| BFB | Bromofluorobenzene |
| BS | Blank Spike |
| BSD | Blank Spike Duplicate |
| $^{O}C$ | Degree Centigrade |
| COC | Chain of Custody |
| conc | concentration |
| ctd | continued |
| PCDD/PCDF | Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF) |
| DFTPP | Decafluorotriphenylphosphine |
| EMPC | Estimated maximum possible concentration |
| GC/ECD | Gas Chromatography/Electron Capture Detector |
| GC/MS | Gas Chromatography/ Mass Spectrometry |
| Hg-CVAA | Mercury-Cold Vapor Atomic Absorption |
| ICP-AES | Inductively Coupled Plasma- Atomic Emission Spectroscopy |
| ID | Identification |
| IS | Internal Standard |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MDA | Minimum Detectable Activity |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| MW | Molecular Weight |
| NA | Not Applicable or Not Available |
| NAD | Normalized Absolute Difference |
| NC | Not Calculated |
| NR | Not Requested/Not Reported |
| % D | Percent Difference |
| % R | Percent Recovery |
| SOP | Standard Operating Procedure |
| PCB | Polychlorinated Biphenyl |
| PDS | Post Digestion Spike |
| Percent RSD | Percent Relative Standard Deviation |
| ppbv | parts per billion by volume |
| ppm | parts per million |
| pptv | parts per trillion by volume |
| QA/QC | Quality Assurance/Quality Control |
| QAPP | Quality Assurance Project Plan |
| RL | Reporting Limit |
| RPD | Relative Percent Difference |
| S4VM | Stage 4 validation done manually |
| SIM | Selected Ion Monitoring |
| SERAS | Scientific Engineering Response and Analytical Services |
| TIC | Tentatively Identified Compound |
| TCLP | Toxicity Characteristic Leaching Procedure |
| SVOC | Semi Volatile Organic Compound |
| VOC | Volatile Organic Compound |
| * | Value exceeds the acceptable QC limits |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| $m^3$ | cubic meter | g | gram | kg | kilogram | L | liter |
| µg | microgram | µL | microliter | mg | milligram | mL | milliliter |
| ng | nanogram | pg | picogram | pCi | picocurie | σ | sigma |

Data Validation Flags

| | | | |
|---|---|---|---|
| J | Value is estimated | R | Rejected or Value is unusable |
| J+ | Value is estimated high | U | Not detected |
| J- | Value is estimated low | UJ | Not detected and RL is estimated |

Rev. 01/01/15, YRM

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Table 1.1a Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method SERAS SOP #1814

| SERAS Sample Number | N/A | | R506003-01 | | R506003-02 | | R506003-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 060515-01 | | 9951 | | 9952 | | 9953 | |
| Sample Location | N/A | | Kitchen | | Kitchen | | Kitchen | |
| Analyte | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv |
| Bromomethane | U | 0.0200 | 0.0610 | 0.0200 | 0.100 | 0.100 | 0.270 | 0.100 |

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

| SERAS Sample Number | N/A | | R506004-03 | | R506004-01 | | R506004-02 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 060615-01 | | 9956 | | 9954 | | 9955 | |
| Sample Location | N/A | | Kitchen Cabinet | | Kitchen Cabinet | | Kitchen | |
| Analyte | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv |
| Bromomethane | U | 0.0200 | 0.647 | 0.0200 | 0.271 | 0.100 | U | 0.100 |

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

| SERAS Sample Number | R506004-04 | |
|---|---|---|
| Sample Number | 9957 | |
| Sample Location | Kitchen/Living room | |
| Analyte | Result ppbv | *RL* ppbv |
| Bromomethane | 0.414 | 0.100 |

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Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

| SERAS Sample Number | N/A | | R506006-05 | | R506006-01 | | R506006-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 060915-01 | | 9885 | | 9881 | | 9883 | |
| Sample Location | N/A | | Trip Blank | | Kitchen/Living room | | Master Bedroom | |
| Analyte | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv |
| Bromomethane | U | 0.0200 | 0.0389 | 0.0200 | 0.531 | 0.0200 | 0.541 | 0.0198 |

Table 1.1a(cont.) Result of the Analysis for VOC (ppbv) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

| SERAS Sample Number | R506006-04 | | R506006-02 | |
|---|---|---|---|---|
| Sample Number | 9884 | | 9882 | |
| Sample Location | Bedroom | | Patio AA | |
| Analyte | Result ppbv | *RL* ppbv | Result ppbv | *RL* ppbv |
| Bromomethane | 0.370 | 0.0200 | U | 0.0200 |

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Table 1.1b Results of the Analysis for VOC (µg/m$^3$) in Air
WA# SERAS-270, St. John Methyl Bromide Response



Method SERAS SOP #1814

| SERAS Sample Number | N/A | | R506003-01 | | R506003-02 | | R506003-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | Method Blank 060515-01 | | 9951 | | 9952 | | 9953 | |
| Sample Location | N/A | | Kitchen | | Kitchen | | Kitchen | |
| Analyte | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ |
| Bromomethane | U | 0.0777 | 0.237 | 0.0777 | 0.389 | 0.388 | 1.05 | 0.388 |

Table 1.1b (cont) Results of the Analysis for VOC (µg/m$^3$) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

| SERAS Sample Number | N/A | | R506004-03 | | R506004-01 | | R506004-02 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 060615-01 | | 9956 | | 9954 | | 9955 | |
| Sample Location | N/A | | Kitchen Cabinet | | Kitchen Cabinet | | Kitchen | |
| Analyte | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ |
| Bromomethane | U | 0.0777 | 2.51 | 0.0777 | 1.05 | 0.388 | U | 0.388 |

Table 1.1b (cont) Results of the Analysis for VOC (µg/m$^3$) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

| SERAS Sample Number | R506004-04 | |
|---|---|---|
| Sample Number | 9957 | |
| Sample Location | Kitchen/Living room | |
| Analyte | Result µg/m$^3$ | *RL* µg/m$^3$ |
| Bromomethane | 1.61 | 0.388 |

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Table 1.1b (cont) Results of the Analysis for VOC (µg/m$^3$) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

| SERAS Sample Number | N/A | | R506006-05 | | R506006-01 | | R506006-03 | |
|---|---|---|---|---|---|---|---|---|
| Sample Number | PS-Method Blank 060915-01 | | 9885 | | 9881 | | 9883 | |
| Sample Location | N/A | | Trip Blank | | Kitchen/Living room | | Master Bedroom | |
| Analyte | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ |
| Bromomethane | U | 0.0777 | 0.151 | 0.0777 | 2.06 | 0.0777 | 2.10 | 0.0770 |

Table 1.1b Results of the Analysis for VOC (µg/m$^3$) in Air
WA# SERAS-270, St. John Methyl Bromide Response

Method SERAS SOP #1814

| SERAS Sample Number | R506006-04 | | R506006-02 | |
|---|---|---|---|---|
| Sample Number | 9884 | | 9882 | |
| Sample Location | Bedroom | | Patio AA | |
| Analyte | Result µg/m$^3$ | *RL* µg/m$^3$ | Result µg/m$^3$ | *RL* µg/m$^3$ |
| Bromomethane | 1.44 | 0.0777 | U | 0.0777 |

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Table 2.1 Results of the LCS Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: LCS 060515

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Bromomethane | 1.00 | 1.17 | 117 | 72 - 139 |

Sample ID: LCS 060615

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Bromomethane | 1.00 | 1.17 | 117 | 72 - 139 |

Sample ID: LCS 060915

| Analyte | LCS Spike Amount ppbv | LCS Recovered ppbv | % Recovery | QC Limits % Recovery |
|---|---|---|---|---|
| Bromomethane | 1.00 | 1.17 | 117 | 72 - 139 |

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Table 2.2 Results of the Duplicate Analysis for VOC in Air
WA# SERAS-270, St. John Methyl Bromide Response



Sample ID: 9953

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Bromomethane | 0.270 | 0.269 | 0 | ≤25 |

Sample ID: 9957

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Bromomethane | 0.414 | 0.411 | 1 | ≤25 |

Sample ID: 9881

| Analyte | Initial Analysis ppbv | Duplicate Analysis ppbv | RPD | QC Limit RPD |
|---|---|---|---|---|
| Bromomethane | 0.531 | 0.559 | 5 | ≤25 |

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(732) 321-4200
EPA Contract 68-C99-223

SERAC-370-DAR-061715

# CHAIN OF CUSTODY RECORD

Project Name: St. Vo[illegible] ER
Project Number: 270
LM Contact: G. Ball Phone: 609-760-7504

No: 06080
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R506003

**Sample Identification** **Analyses Requested**

| REAC | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles | Container/Preservative | Final Pres | Can # | TO-15 | Steel Pres | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 9951 | Kitchen | Air | 6/2/15 | 1 | Summa Canister | 0 | 14396 | ✓ | -29.5 | |
| 02 | 9952 | Kitchen | Air | 6/2/15 | 1 | Summa Canister | 0 | 13735 | ✓ | -30 | |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Mathyl Bromide

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| All/Analysis | [signature] | 6/3/15 | [signature] | 6/4/15 | 10:30 | All/Analysis | [signature] | 6/5/15 | [signature] | 6/5/15 | 04:00 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS-270-DAR-061715

# CHAIN OF CUSTODY RECORD

Project Name: St. Jo[illegible] ER
Project Number: 270
LM Contact: G. Bell Phone: 609-760-7506

No: 06081
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R506003

**Sample Identification** **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles | Container/Preservative | I Pressure | F. Pressure | Can # | TO-15 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | 9953 | Kitchen | Air | 6/3/15 | 1 | Summa Canister | 29.6" | 0" | 14254 | ✓ | |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Methyl Bromide

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| All Analysis | [signature] | 6/3/15 | [signature] | 6/4/15 | 10:30 | All/Analysis | [signature] | 6/5/15 | [signature] | 6/5/15 | 0450 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERAS 270-DAR-061715

# CHAIN OF CUSTODY RECORD

Project Name: SERA03 SER00270
Project Number: SER00270
LM Contact: Josie Yousefan Phone: 9084153546

No: 06832
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R506004

**Sample Identification** / **Analyses Requested**

| REAC # | Sample No | Sampling Location TM 6/8/15 | Matrix | Date Collected | # of Bottles (Summas) | Container/Preservative | Start pressure | Volume | Time | Summa # | MeBr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 9954 | Ketchen/* | A | 6/4/15 | 1 | Summa/None | -29.6 | 6(L) | 1600 | 14253 | ✓ |
| 02 | 9955 | Kitchen | A | 6/5/15 | 1 | Summa/None | -29.6 | 6(L) | 0859 | 14242 | ✓ |

Matrix: *Cabinet TM 6/8/15

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions: Analyze for Bromo Methane. Grab samples taken in Lower J both in Kitchen 9954 on 6/4/15 after baking unit. 9955 6/5/15 after ventilation post baking.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 6/5/15 | [signature] | 6/6/15 | 11:30 | 1/Analysis | [signature] | 6/8/15 | [signature] | 6/8/15 | 9:00 |
| All/Analysis | [signature] | 6/8/15 | [signature] | 6/8/15 | 09:15 | | | | | | |

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EPA Contract 68-C99-223

SERA0270-DAR-061715

# CHAIN OF CUSTODY RECORD

Project Name: SERA03 ER00270
Project Number: SER 00270
LM Contact: Josie Yousefan Phone: 9084153546

No: 07525
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R506004

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | Summas # of ~~Bottles~~ | Container/Preservative | Start pressure | Volume | Time | Suma number | MeBr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | 9956 | Kitchen Cabinet | A | 6/5/15 | 1 | Summa/None | -29.4 | 6(L) | 1230 | 14403 | ✓ |
| 04 | 9957 | Kitchen/Lwngroom | A | 6/5/15 | 1 | Summa/None | -29.6 | 6(L) | 1230 | 14246 | ✓ |

**Matrix:**

A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:

Grab samples taken after baking/ventilation had stopped. In afternoon. Analyze for Bromo Methane. (5/4/15) (5/4/15-5/5/15)

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 6/5/15 | [signature] | 6/6/15 | 11:30 | 1/Analysis | [signature] | 5/8/15 | [signature] | 6/8/15 | 9:00 |
| All Analysis | [signature] | 6/8/15 | [signature] | 6/8/15 | 09:15 | | | | | | |

☆ U.S. GPO: 2000-521-151

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(732) 321-4200
EPA Contract 68-C99-223

# CHAIN OF CUSTODY RECORD

Project Name: SERAD SER00270
Project Number: SER00270
LM Contact: J. Yousefian Phone: 9084183546

No: 06892
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

SERAS-270-DAR-061715

WO#R506006

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summas | Container/Preservative | Flow | Summa | Orifice | End pressure | MeBr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 9881 | Kitchen/Lingroom | A | 6/6-6/7/15 | 1 | Summa/None | -3.52 | 13749 | 13993 | -5 | ✓ |
| 02 | 9882 | Patio AA | A | 6/6-6/7/15 | 1 | Summa/None | -3.67 | 14258 | 13782 | -3.5 | ✓ |

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
To Be analyzed for Bromo Methane. All windows closed, exhaust fans off, ventilation off.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 6/8/15 | [signature] | 6/9/15 | 12:45 | All/Analysis | [signature] | 6/9/15 | [signature] | 6/9/15 | 13:06 |

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(732) 321-4200
EPA Contract 68-C99-223

SERAC-270-DAR-061715

# CHAIN OF CUSTODY RECORD

Project Name: SERAC SER00270
Project Number: SER00270
LM Contact: J. Youssef Phone: 9084153546

No: 06893
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO# R506006

**Sample Identification** / **Analyses Requested**

| REAC# | Sample No | Sampling Location | Matrix | Date Collected | # of ~~Bottles~~ Summa | Container/Preservative | flow | Summa | Orifice | final pressur | MeBr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 03 | 9883 | Master Bedroom | A | 6/6-6/7/15 | 1 | Summa / None | -3.37 | 14067 | 14047 | -6.5 | ✓ |
| 04 | 9884 | Bedroom | A | 6/6-6/7/15 | 1 | Summa/None | -3.64 | 14066 | 14011 | -6 | ✓ |

Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
To analyze for Bromo Methane. All windows closed, exhaust fans off, ventilation off.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 6/8/15 | [signature] | 6/9/15 | 12:45 | All/Analysis | [signature] | 6/9/15 | [signature] | 6/9/15 | 13:00 |

☆ U.S. GPO: 2000-521-151

REAC, Edison, NJ
(732) 321-4200
EPA Contract 68-C99-223

SERA#270-DAR-061715

# CHAIN OF CUSTODY RECORD

Project Name: SERAO SER00270
Project Number: SER00270
LM Contact: J. Yousefan Phone: 9084153546

No: 06088
Sheet 01 of 01 (Do not copy)
(for addnl. samples use new form)

WO#R506006

**Sample Identification** | **Analyses Requested**

| REAC | Sample No | Sampling Location | Matrix | Date Collected | # of Bottles (Summas) | Container/Preservative | Time | Pressure | Summa | Volume | MeBr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 | 9885 | Trip Blank | A | 6/7/15 | 1 | Summa None | 1300 | -29.5 | 13741 | 6(L) | ✓ |

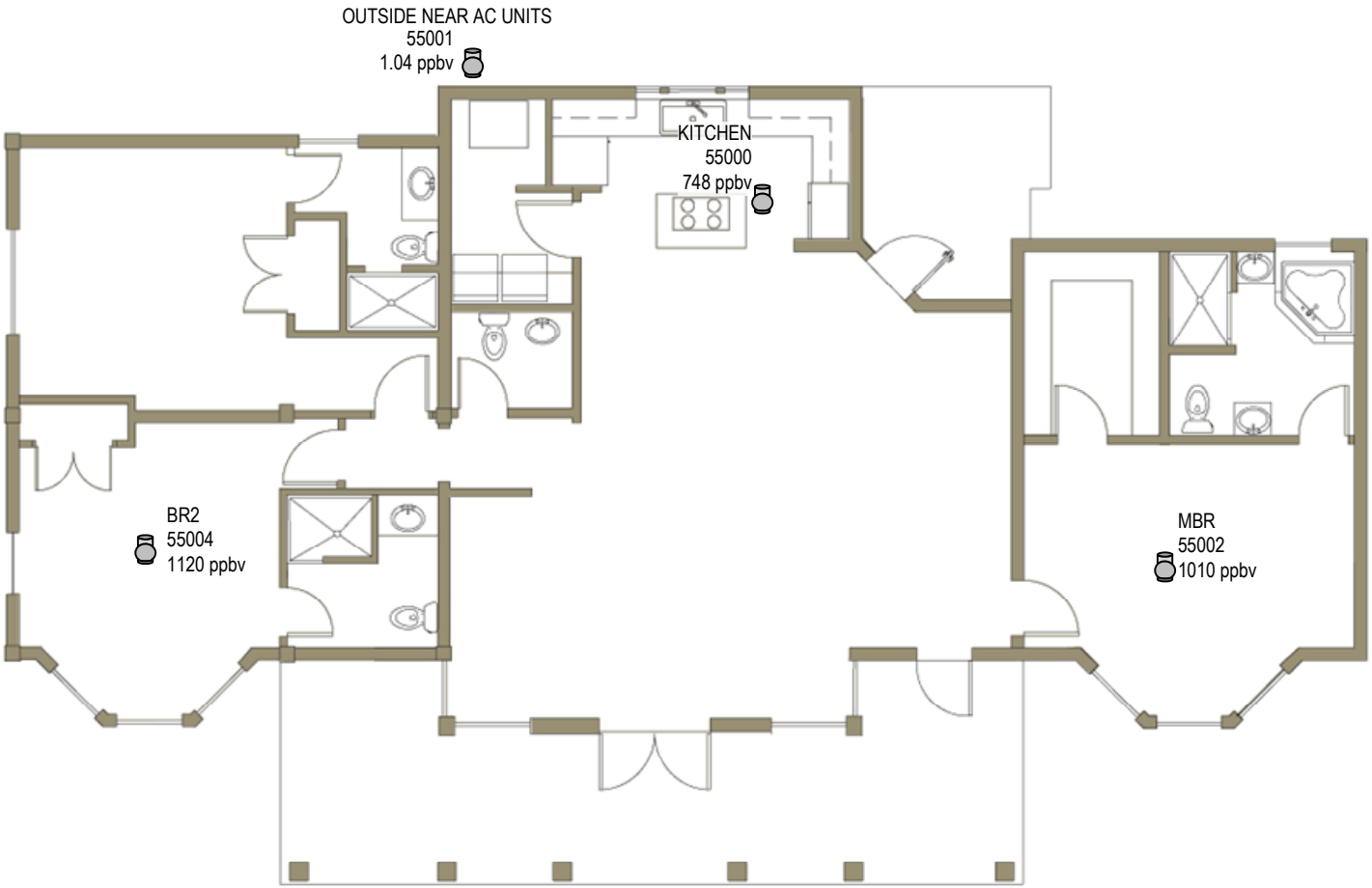
Matrix:
A- Air
AT-Animal Tissue
DL- Drum Liquids
DS- Drum Solids
GW- Groundwater
O- Oil
PR-Product
PT-Plant Tissue
PW- Potable Water
S- Soil
SD- Sediment
SL- Sludge
SW- Surface Water
TX-TCLP Extract
W- Water
X- Other

Special Instructions:
Trip Blank for 24-hour summa Sampling event. To be analyzed for Bromo Methane.

**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #:**

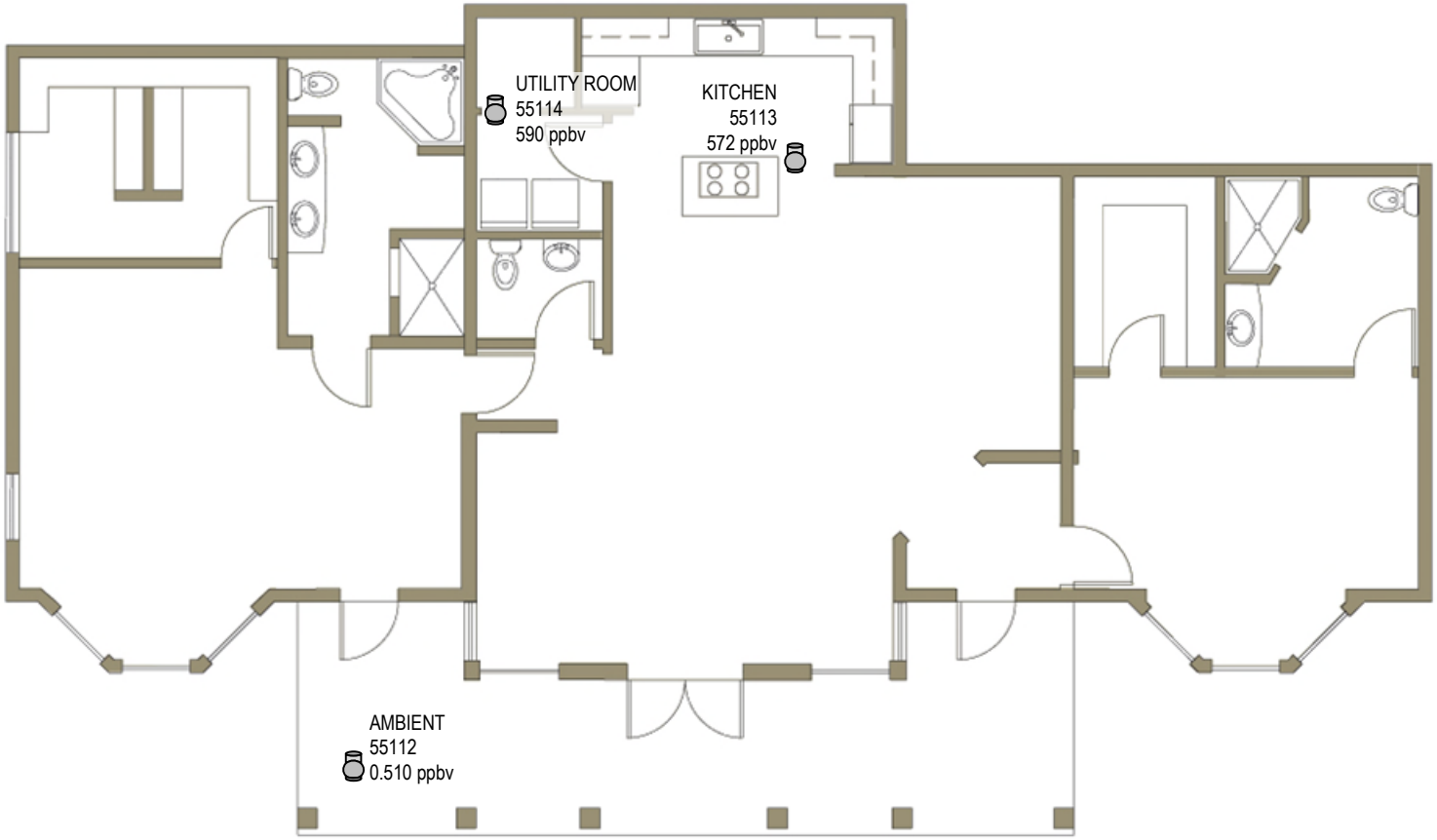
| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished by | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/Analysis | [signature] | 6/8/15 | [signature] | 6/9/15 | 13:45 | All/Analysis | [signature] | 6/9/15 | [signature] | 6/9/15 | 13:06 |

APPENDIX B
Figures depicting SUMMA® Results
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015



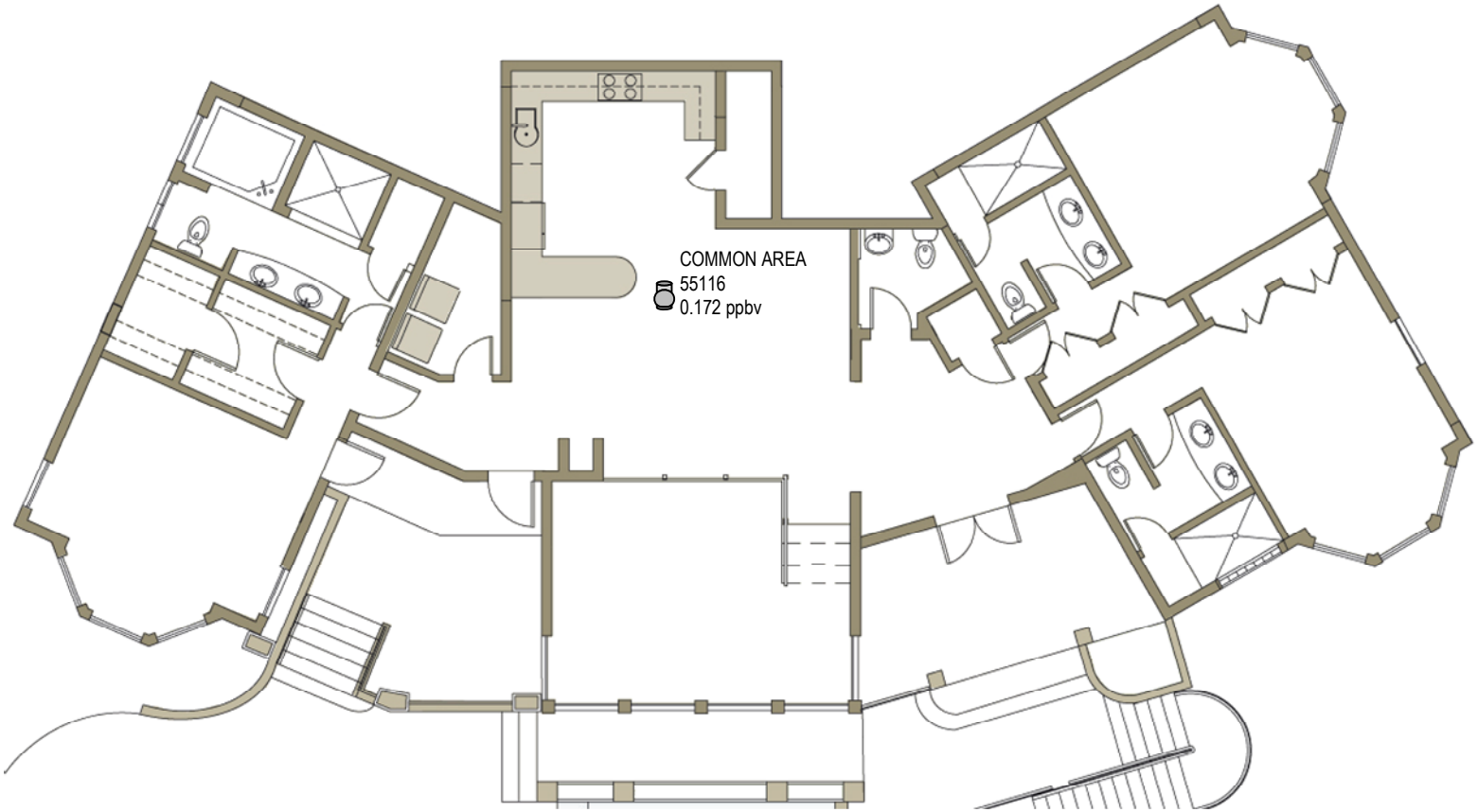

ppbv – parts per billion by volume

RESIDENCE J UPPER ENTRANCE
MARCH 24, 2015 – GRAB SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



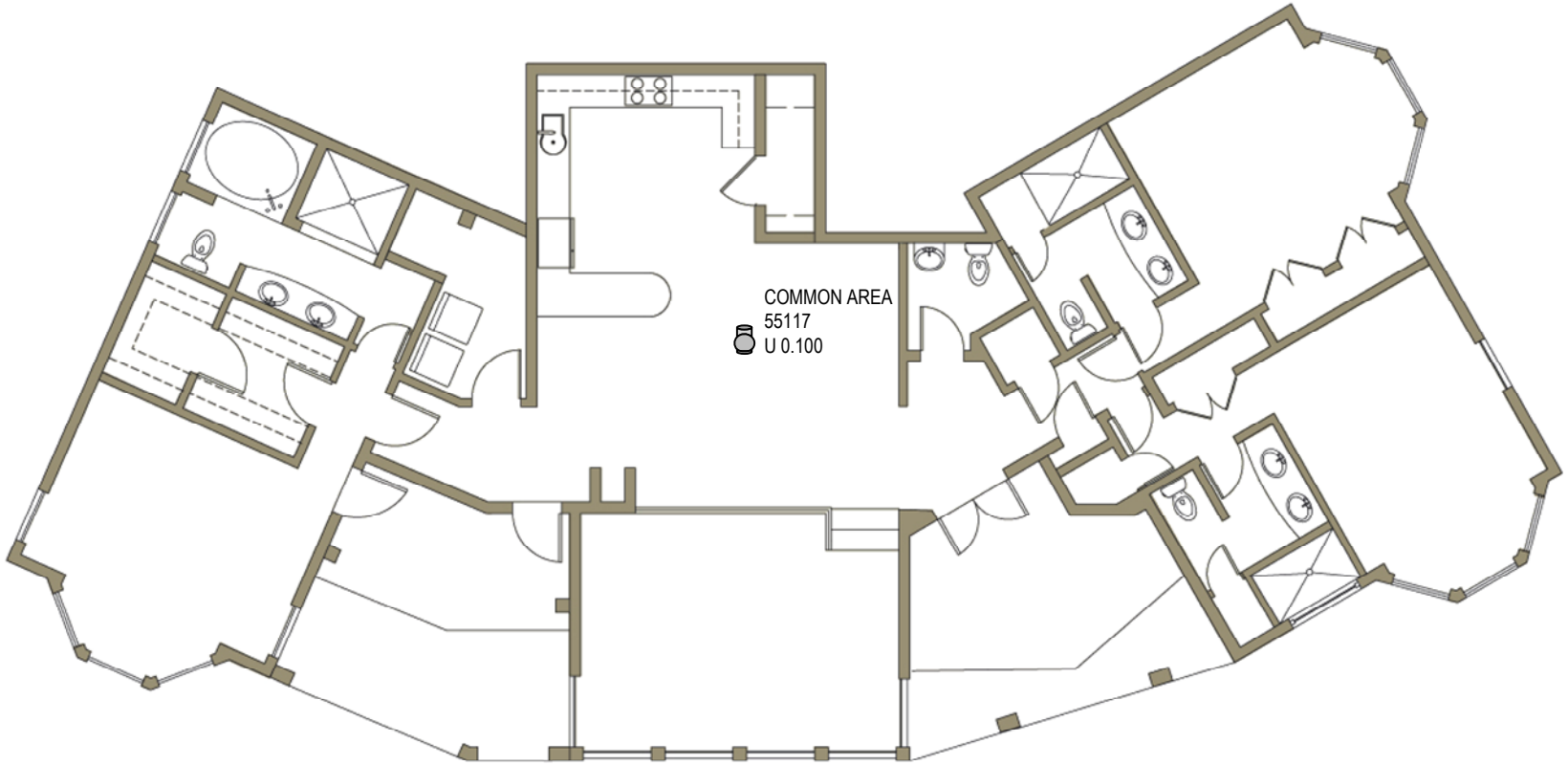

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
MARCH 27, 2015 – GRAB SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



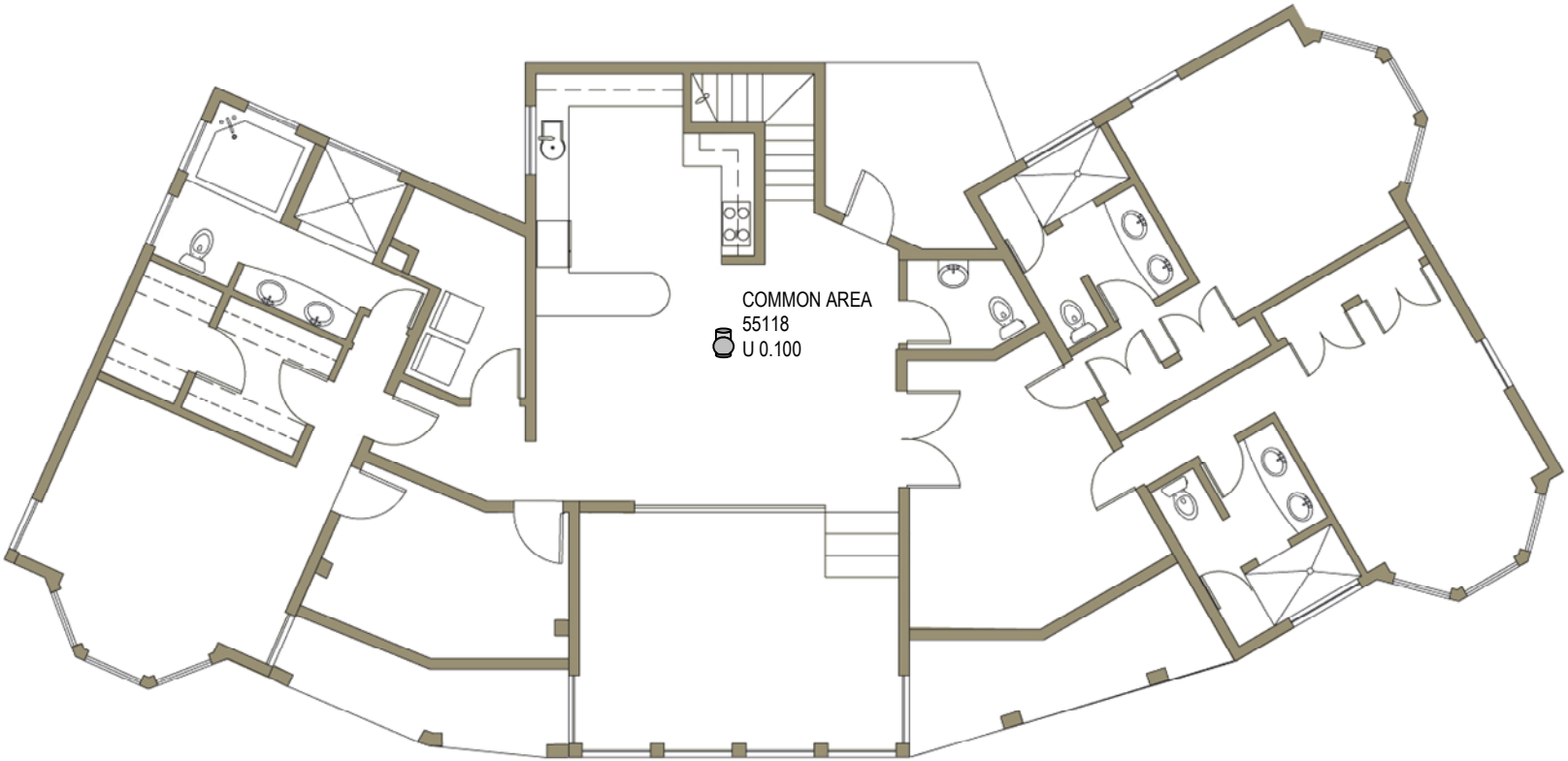

ppbv – parts per billion by volume

RESIDENCE A LOWER ENTRANCE
MARCH 28, 2015 – GRAB SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



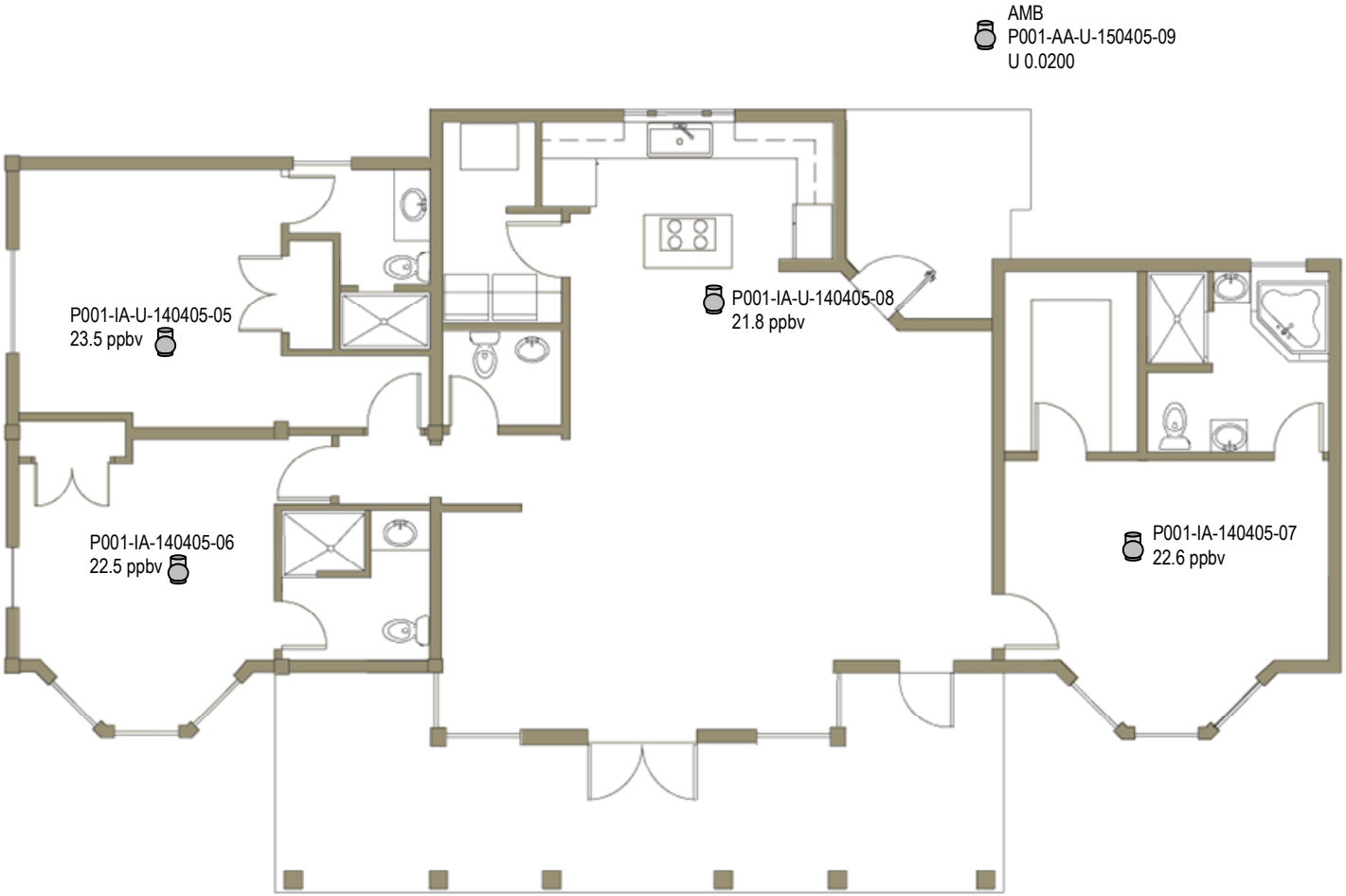

U – Not Detected

RESIDENCE I LOWER ENTRANCE
MARCH 28, 2015 – GRAB SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



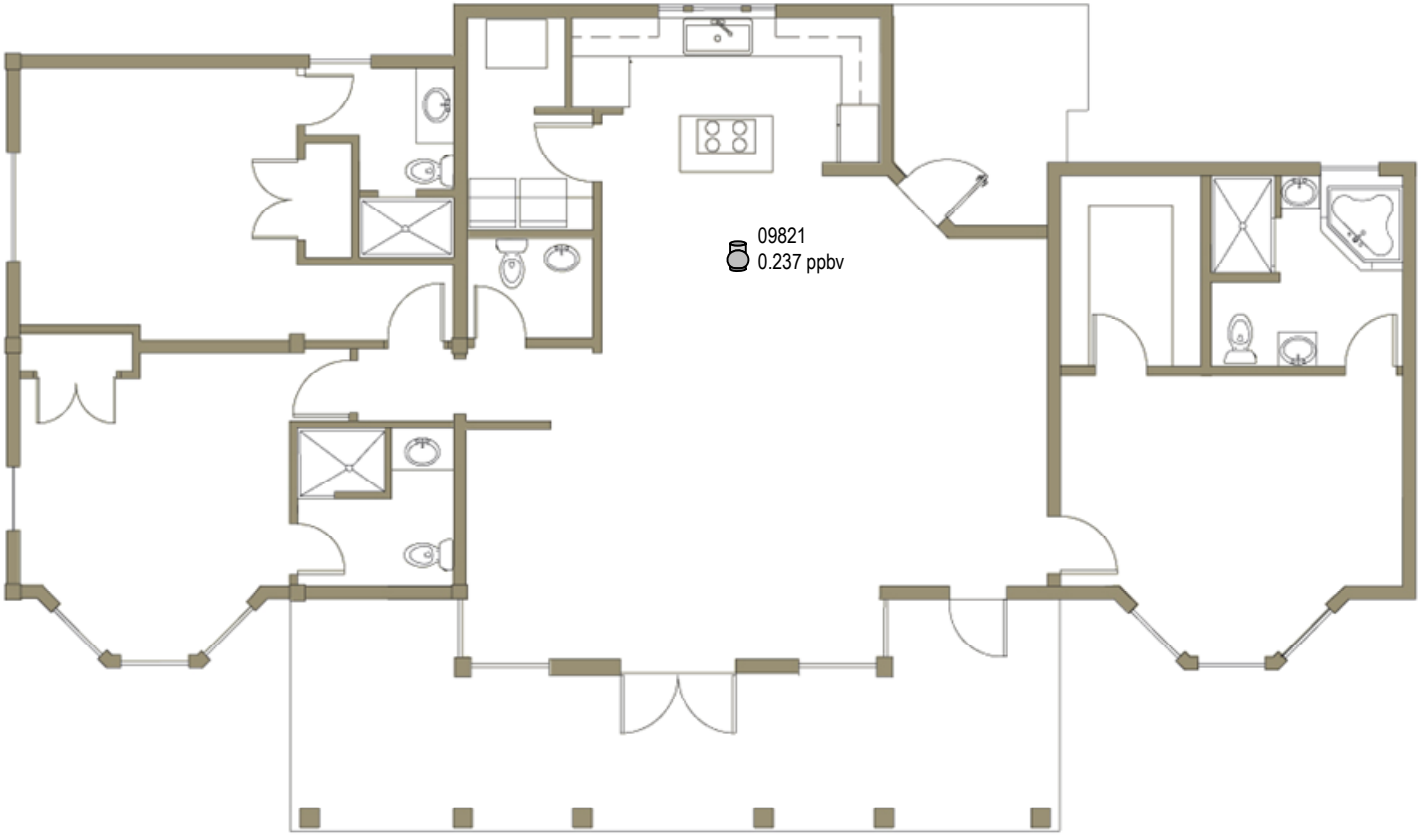

U – Not Detected

RESIDENCE I UPPER ENTRANCE
MARCH 28, 2015 – GRAB SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



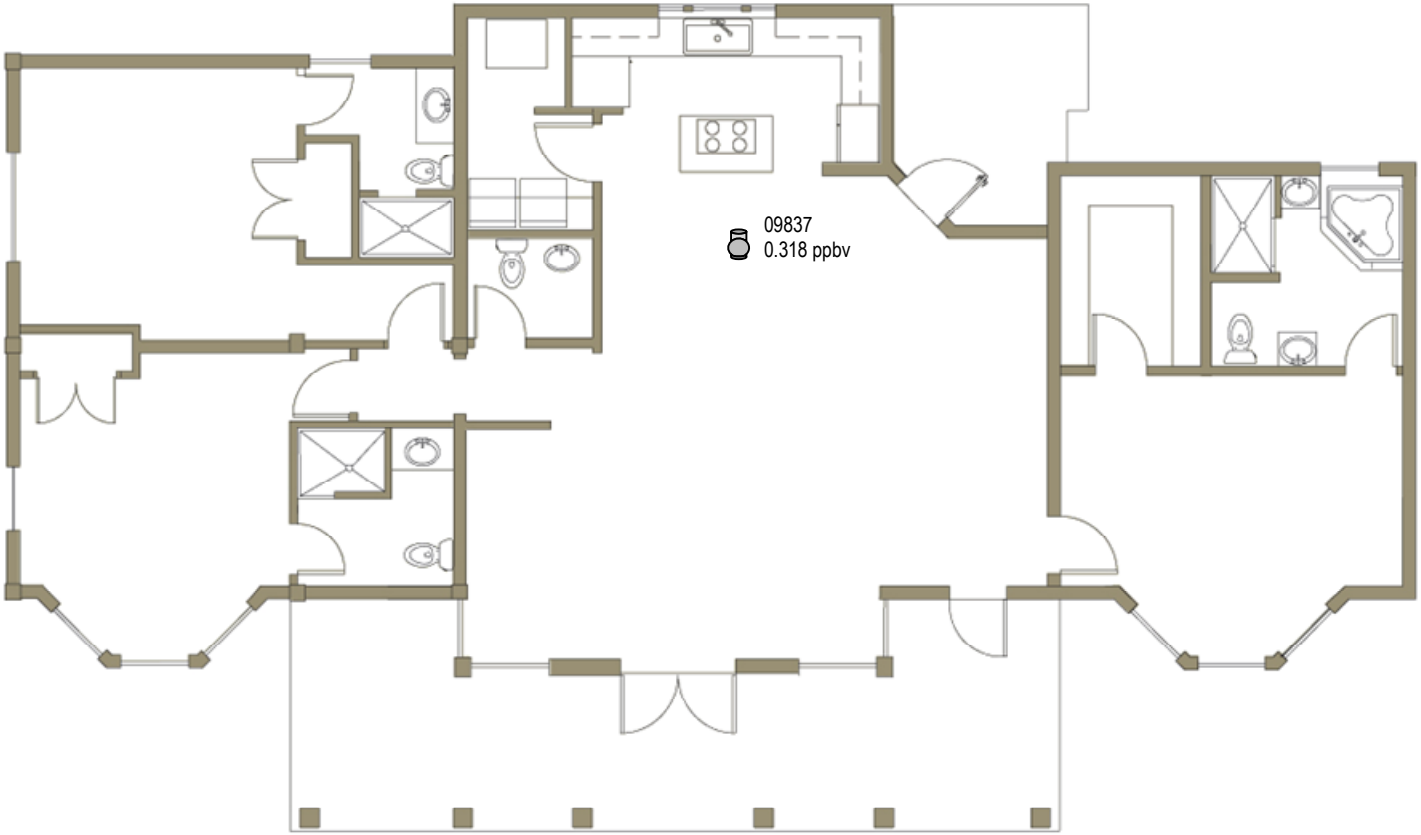

ppbv – parts per billion by volume
U – Not Detected

RESIDENCE J UPPER ENTRANCE
APRIL 5, 2015 – GRAB SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS




ppbv – parts per billion by volume

RESIDENCE J UPPER ENTRANCE
APRIL 14, 2015 – GRAB SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS

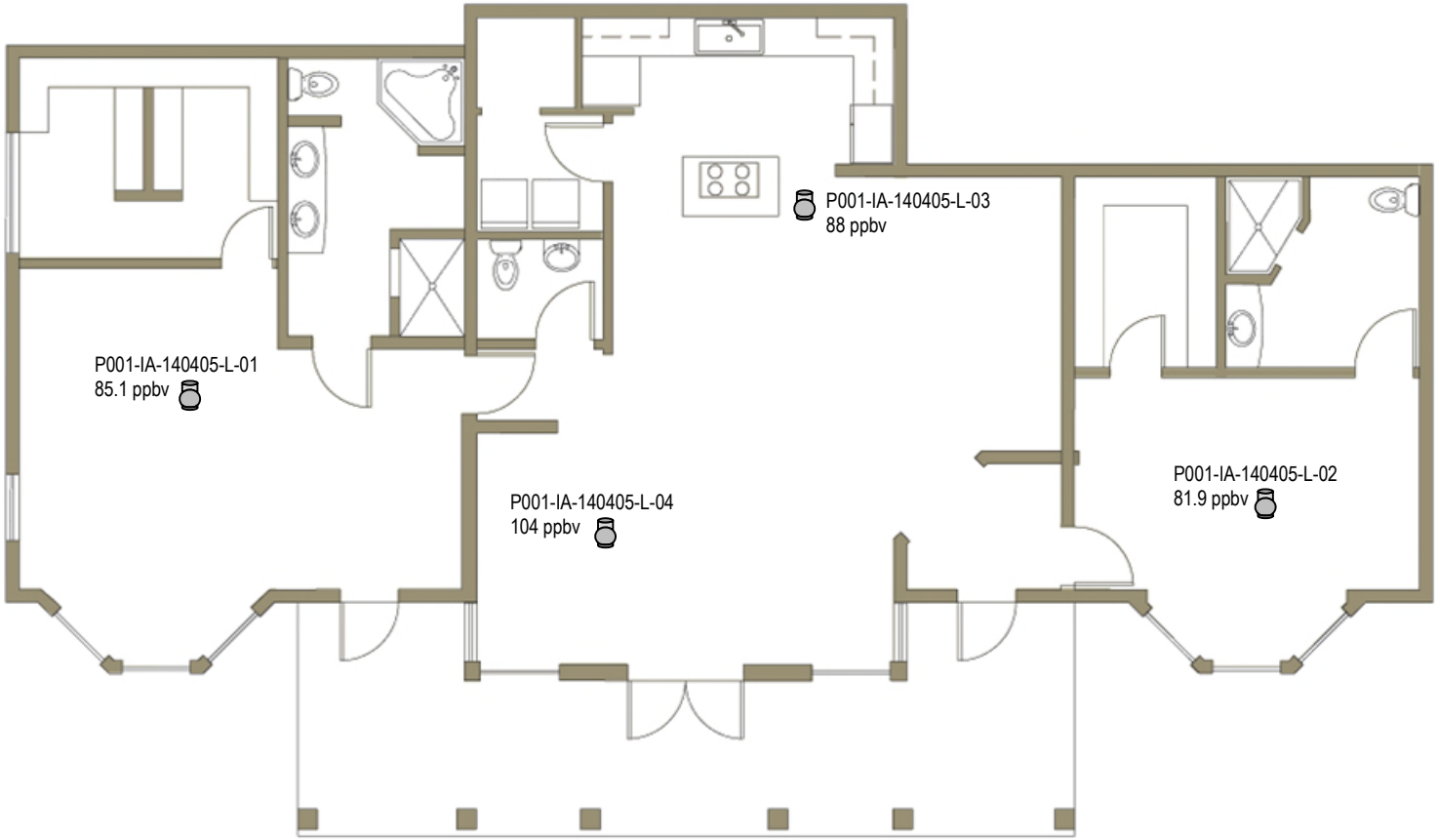



ppbv – parts per billion by volume

RESIDENCE J UPPER ENTRANCE
APRIL 17, 2015 – GRAB SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS

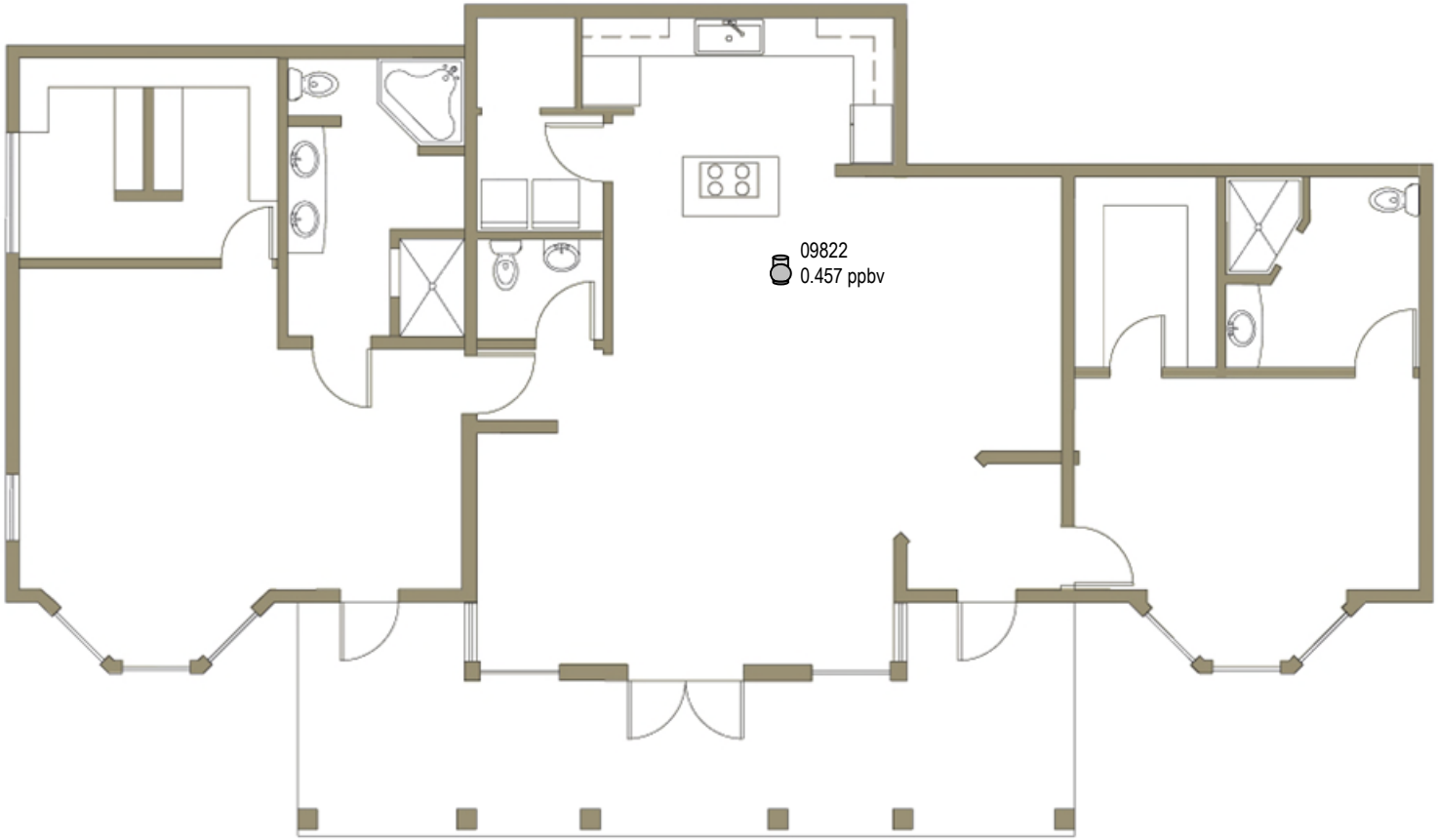
ppbv – parts per billion by volume

RESIDENCE J UPPER ENTRANCE
APRIL 18 - 19, 2015 – 24-HR SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



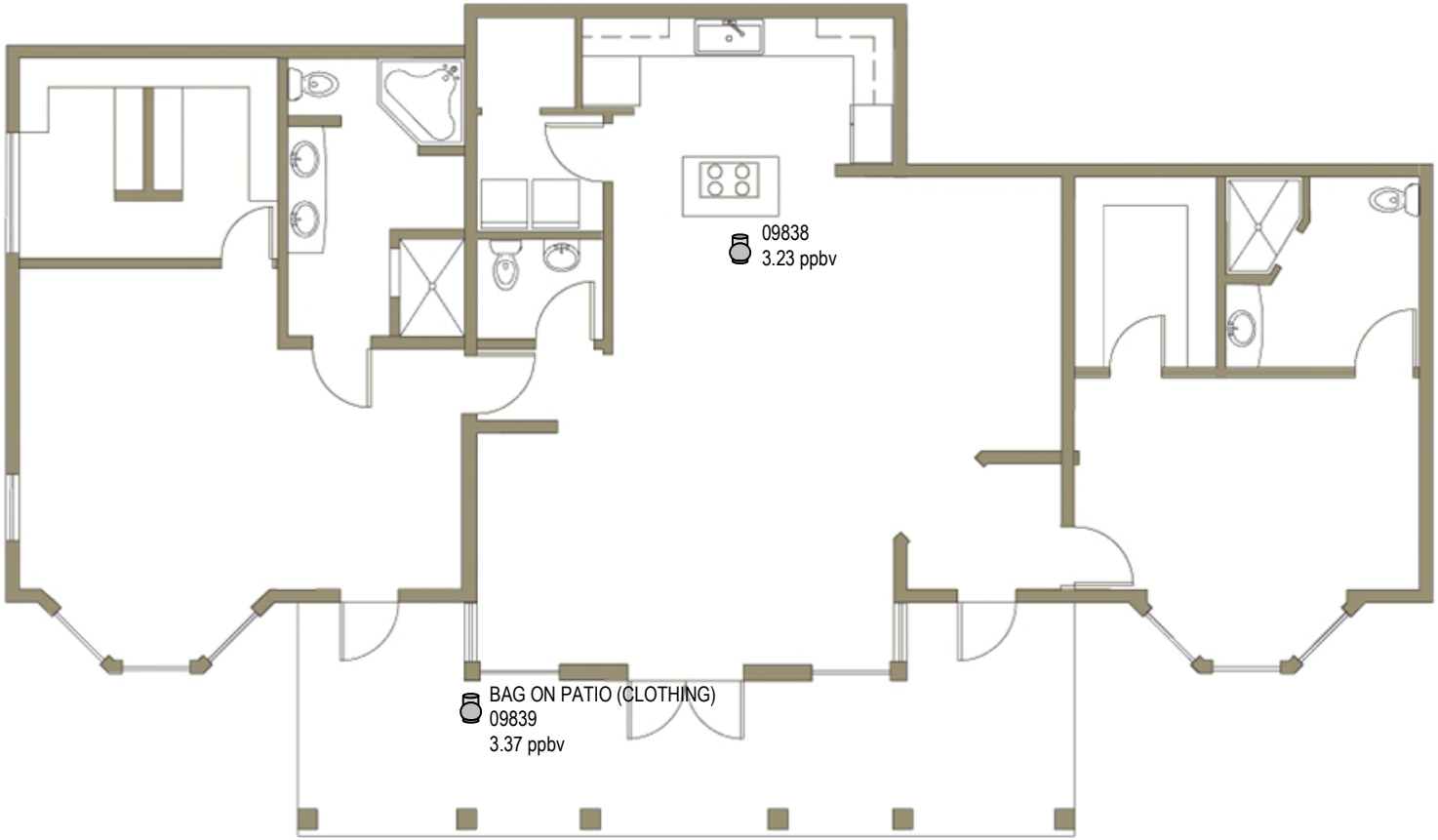

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
APRIL 5, 2015 – GRAB SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



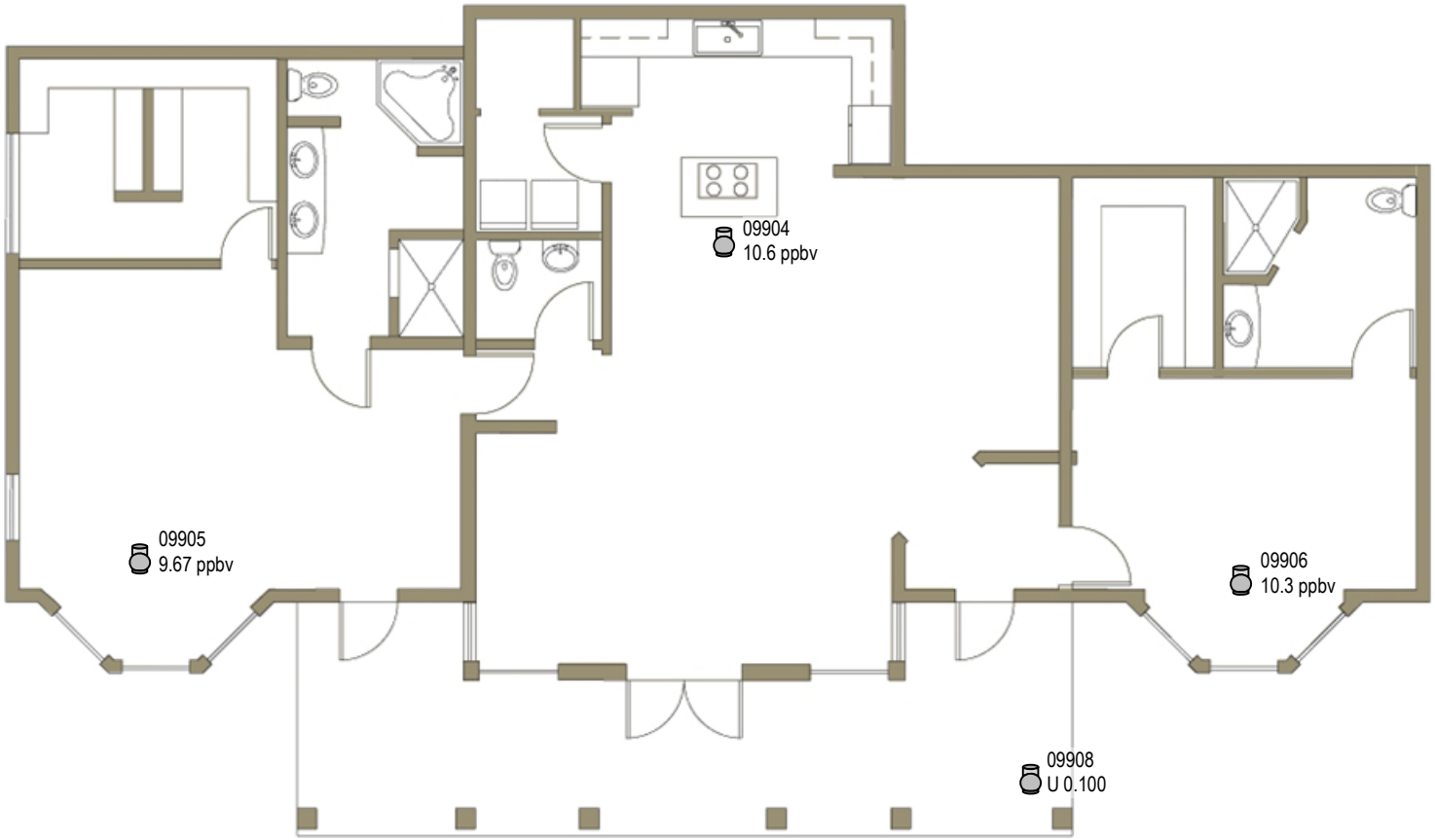

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
APRIL 14, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



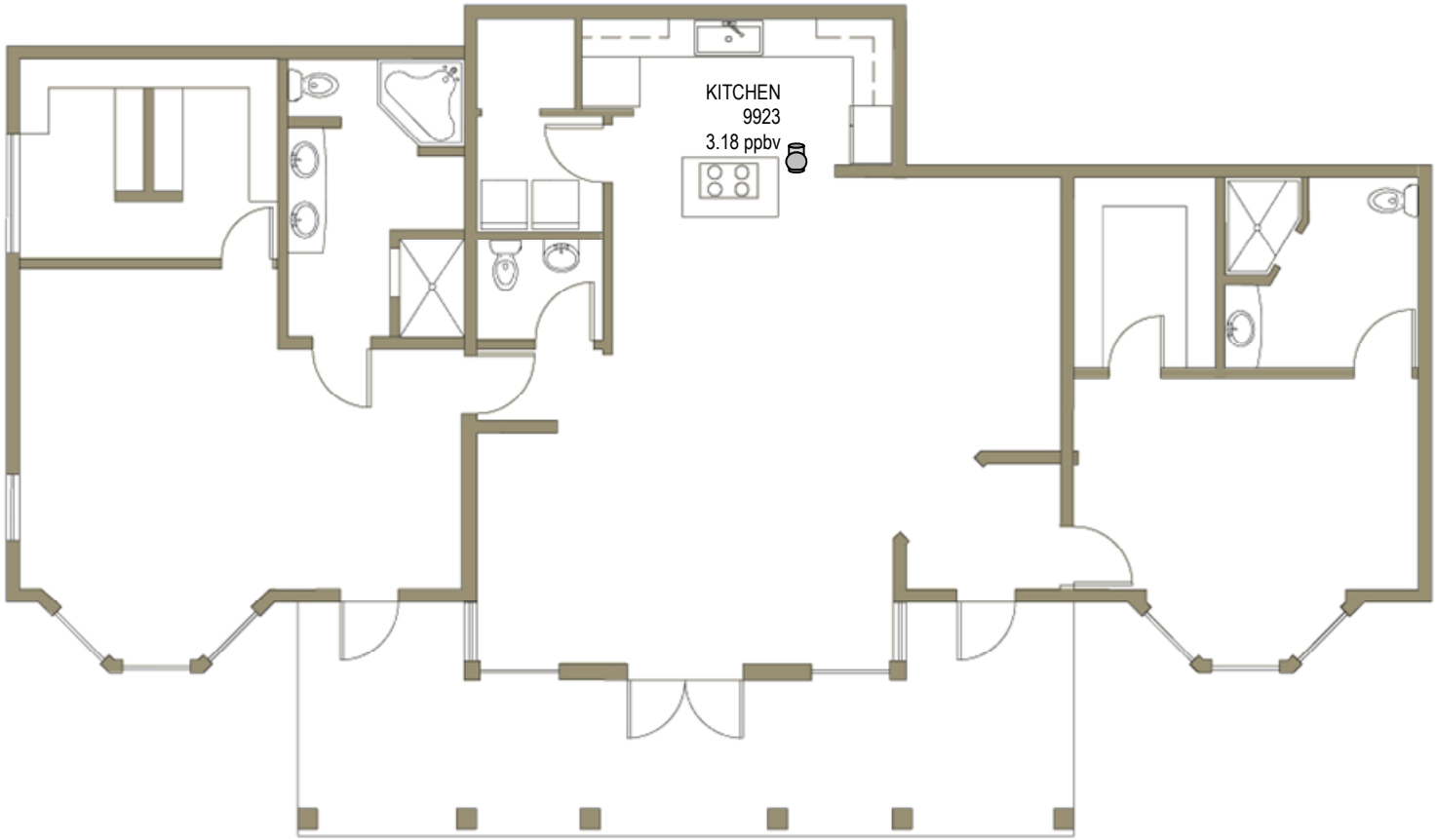

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
APRIL 17, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



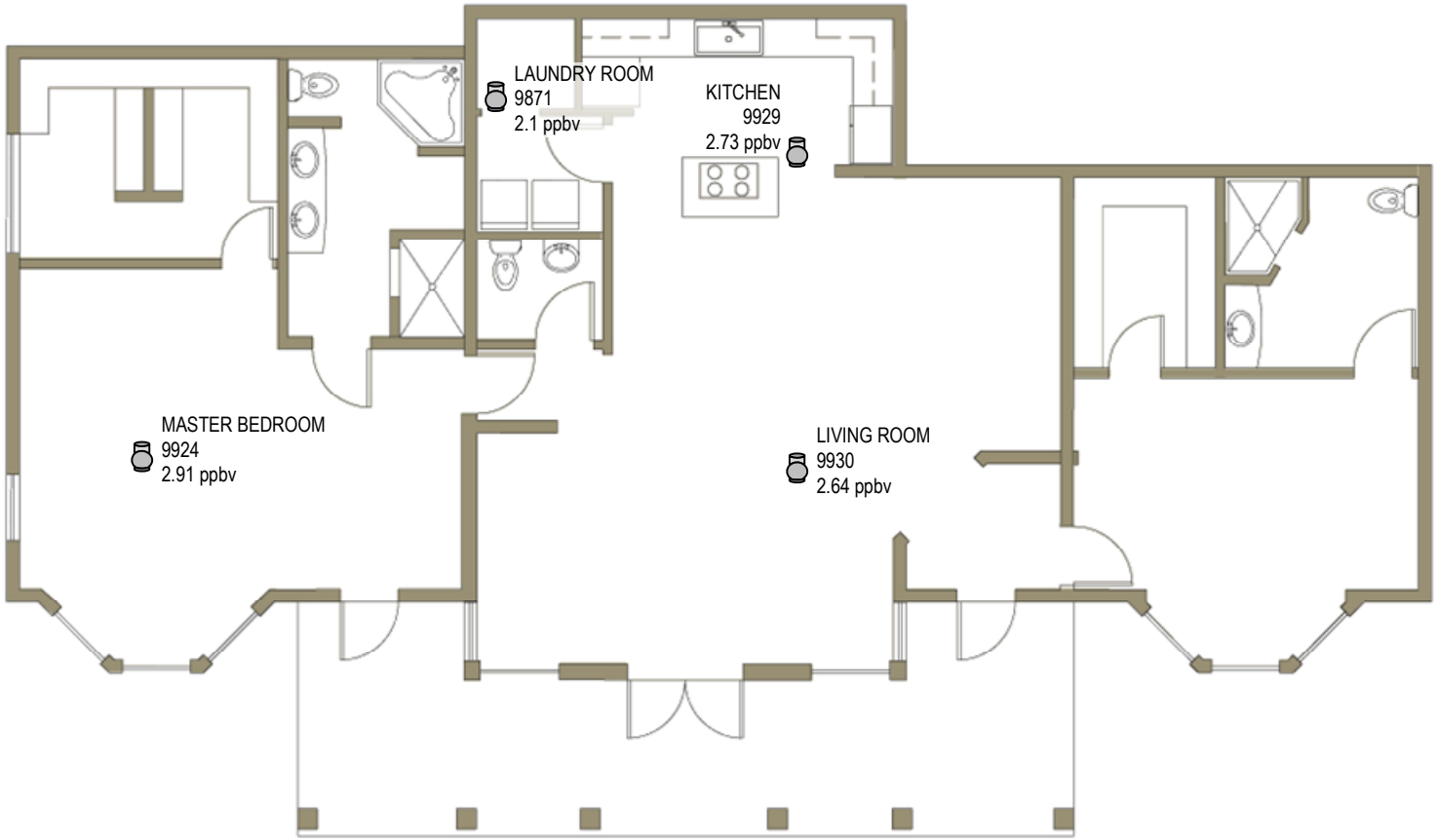

ppbv – parts per billion by volume
U – Not Detected

RESIDENCE J LOWER ENTRANCE
APRIL 18 - 19, 2015 – 24-HR SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



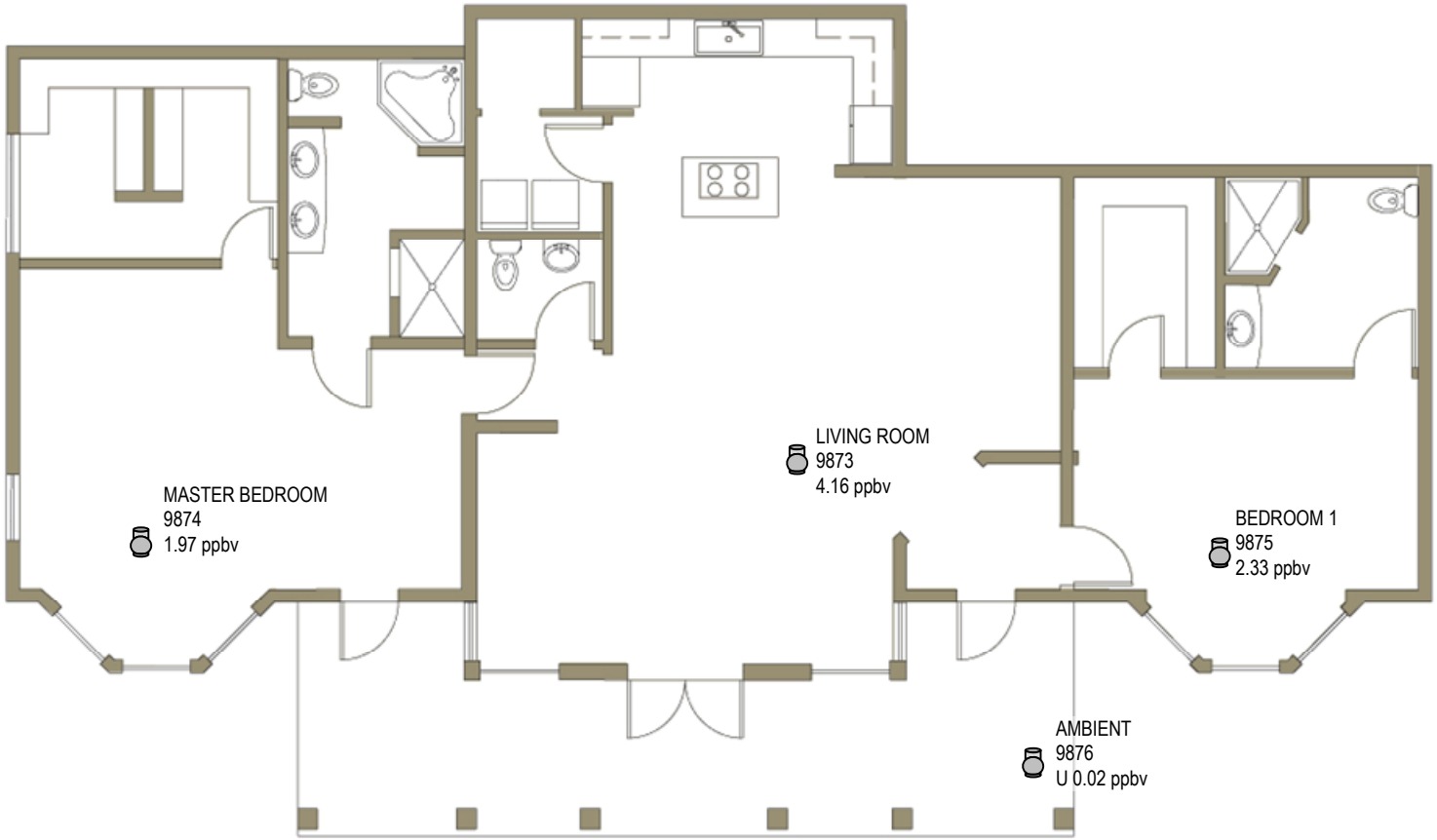

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
APRIL 28, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



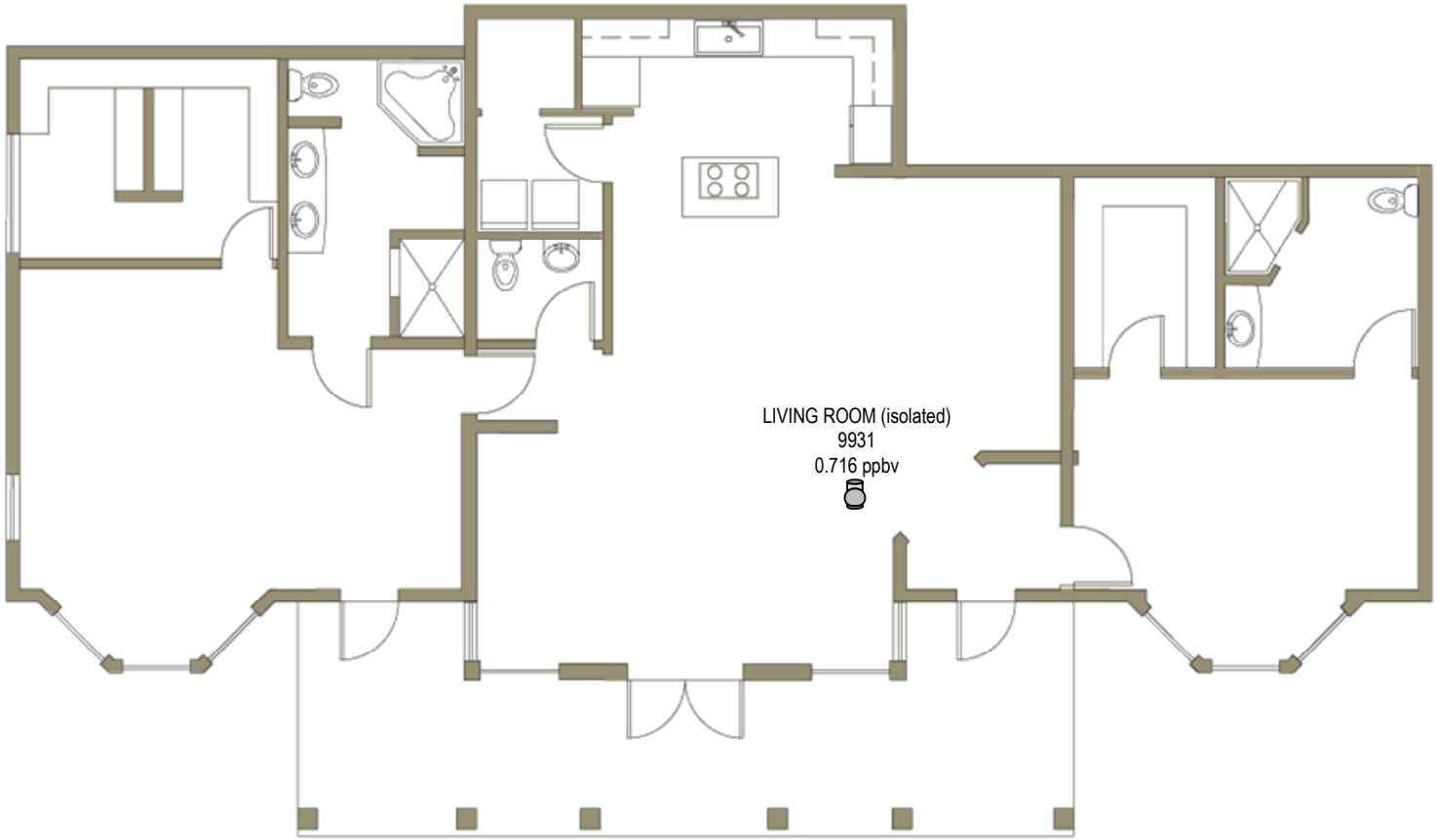

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
APRIL 29, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



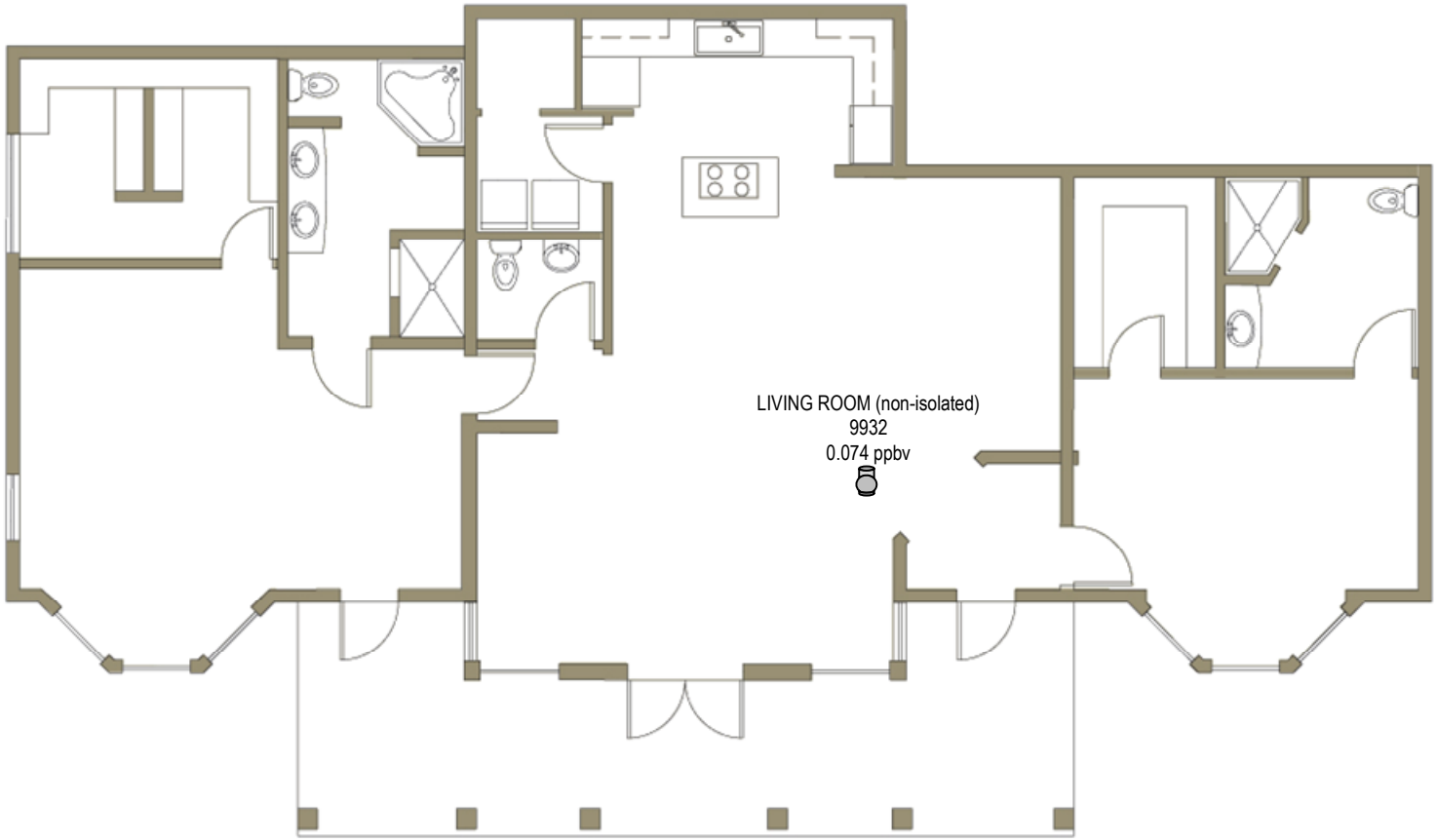

ppbv – parts per billion by volume
U – Not Detected

RESIDENCE J LOWER ENTRANCE
APRIL 30 – MAY 1, 2015 – 24-HR SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



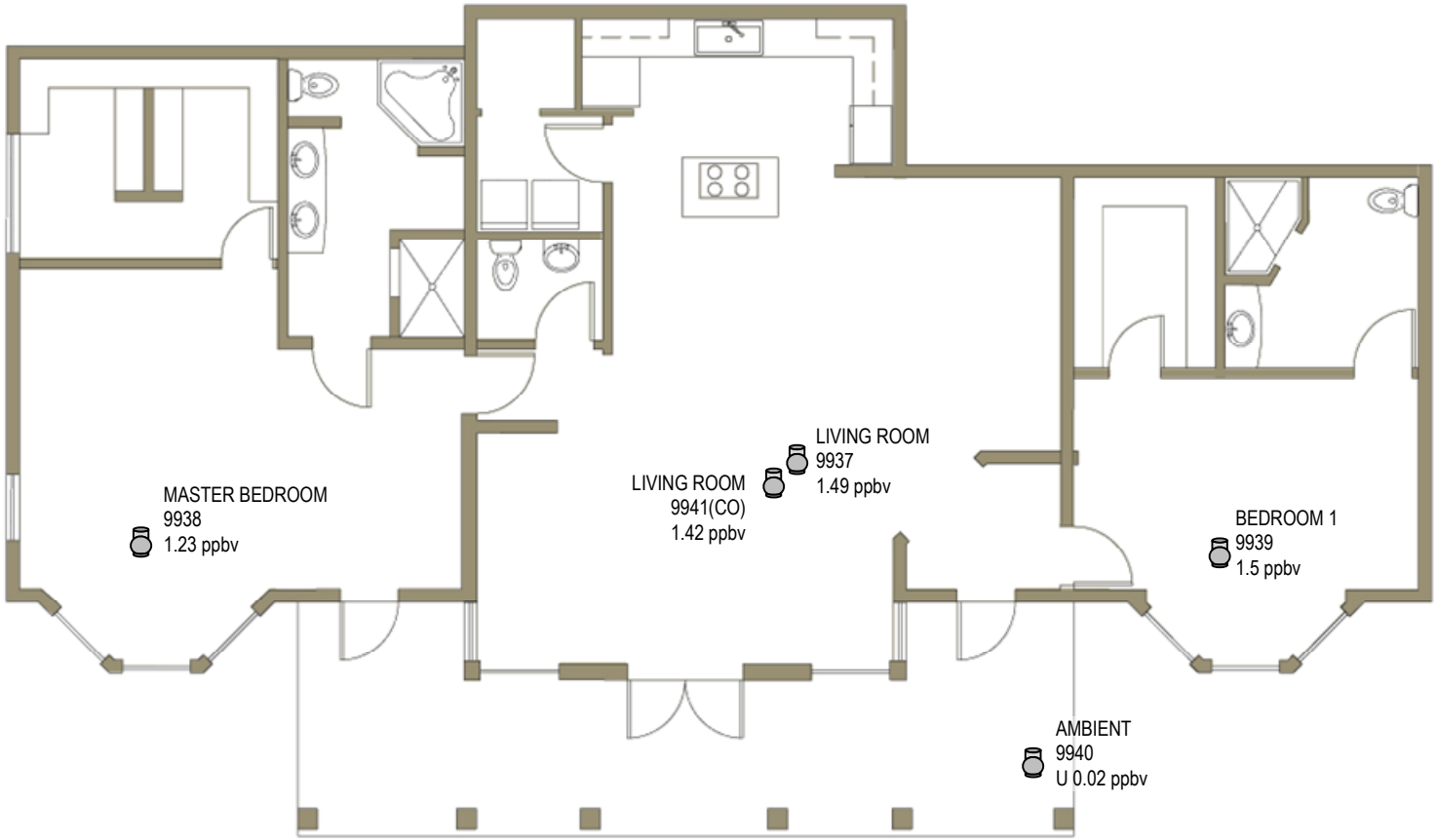

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
MAY 13, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



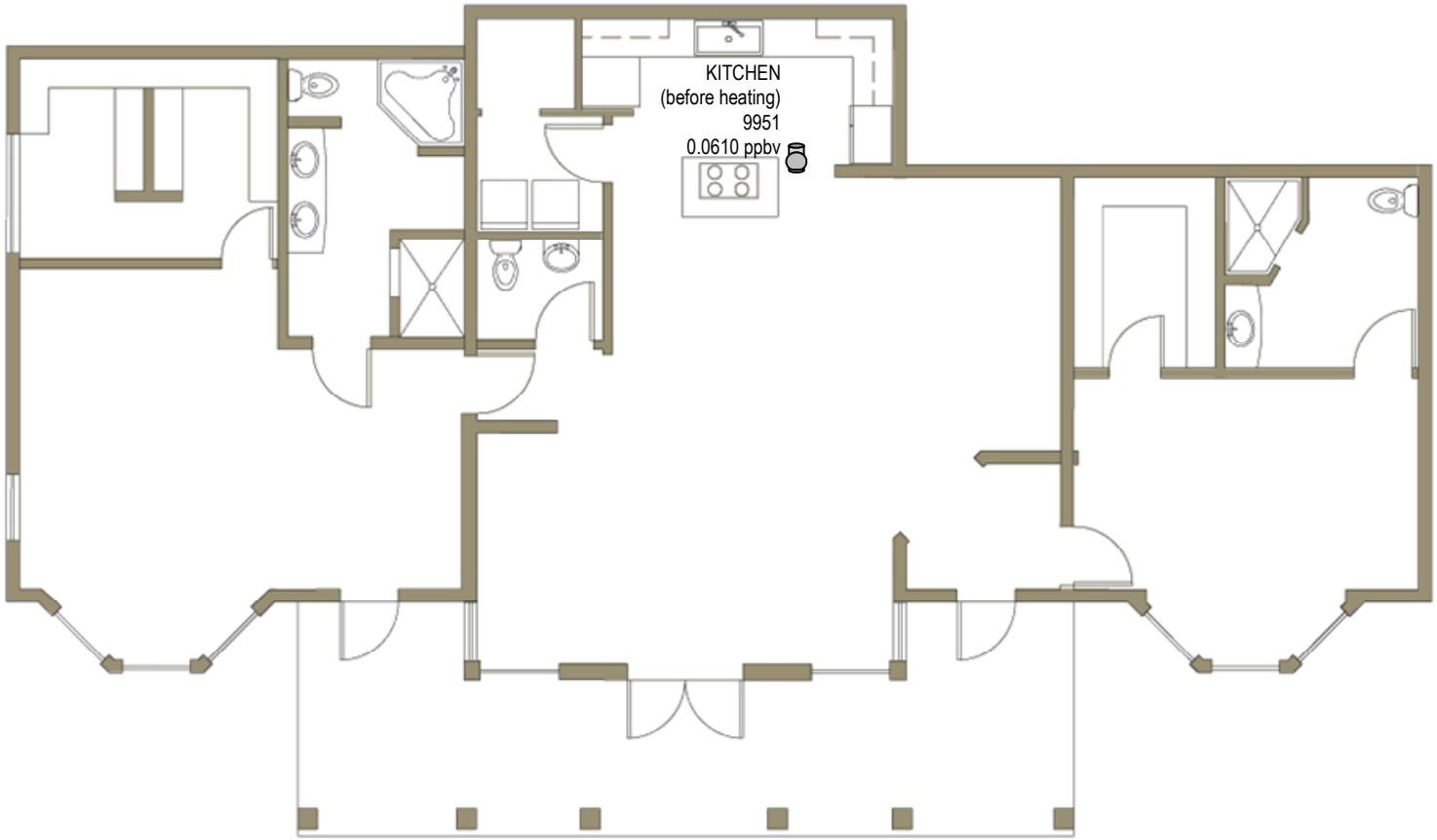

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
MAY 14, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



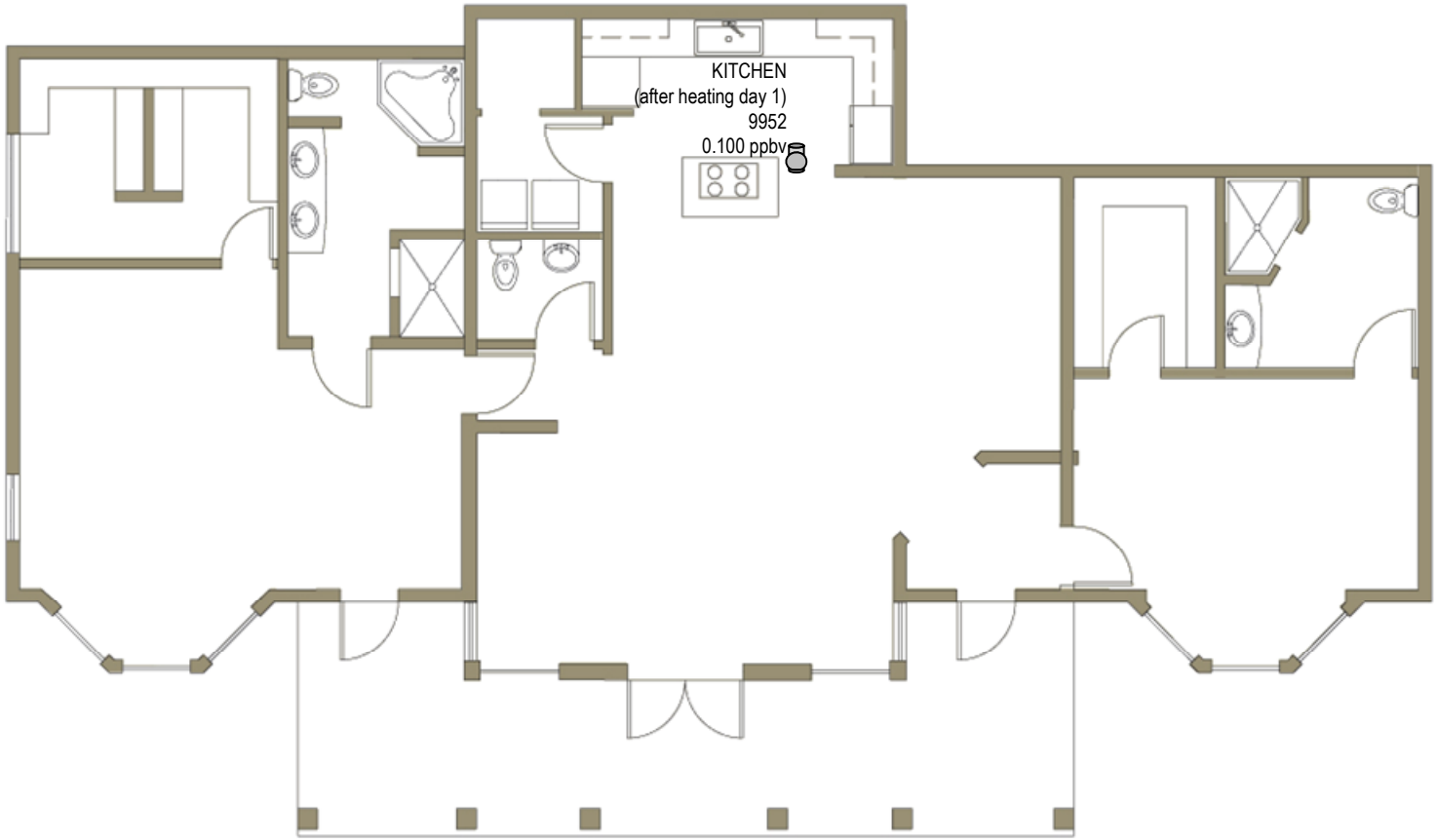

ppbv – parts per billion by volume
U – Not Detected

RESIDENCE J LOWER ENTRANCE
MAY 15 – 16, 2015 – 24-HR SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



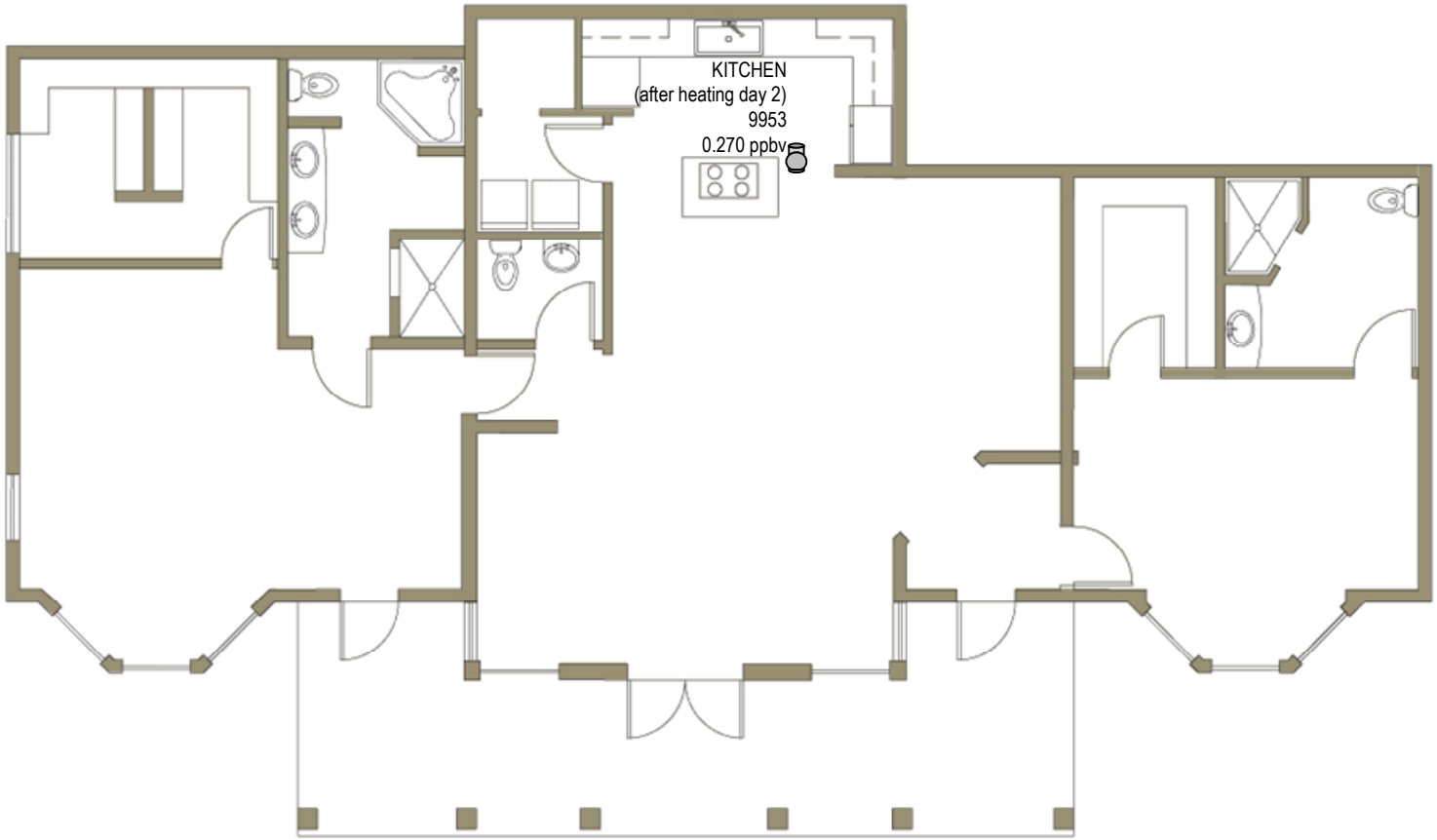

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
JUNE 2, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



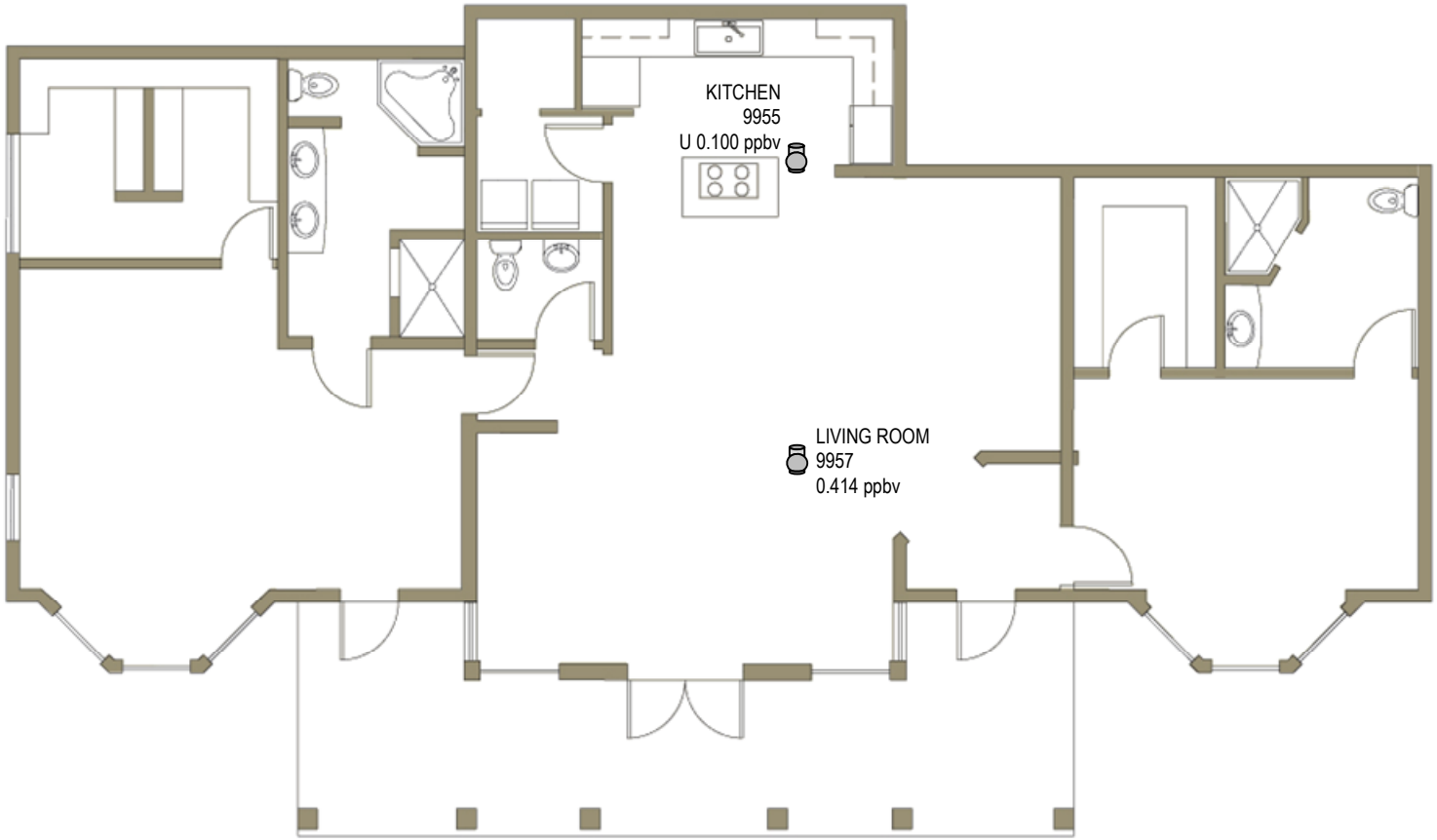

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
JUNE 2, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS



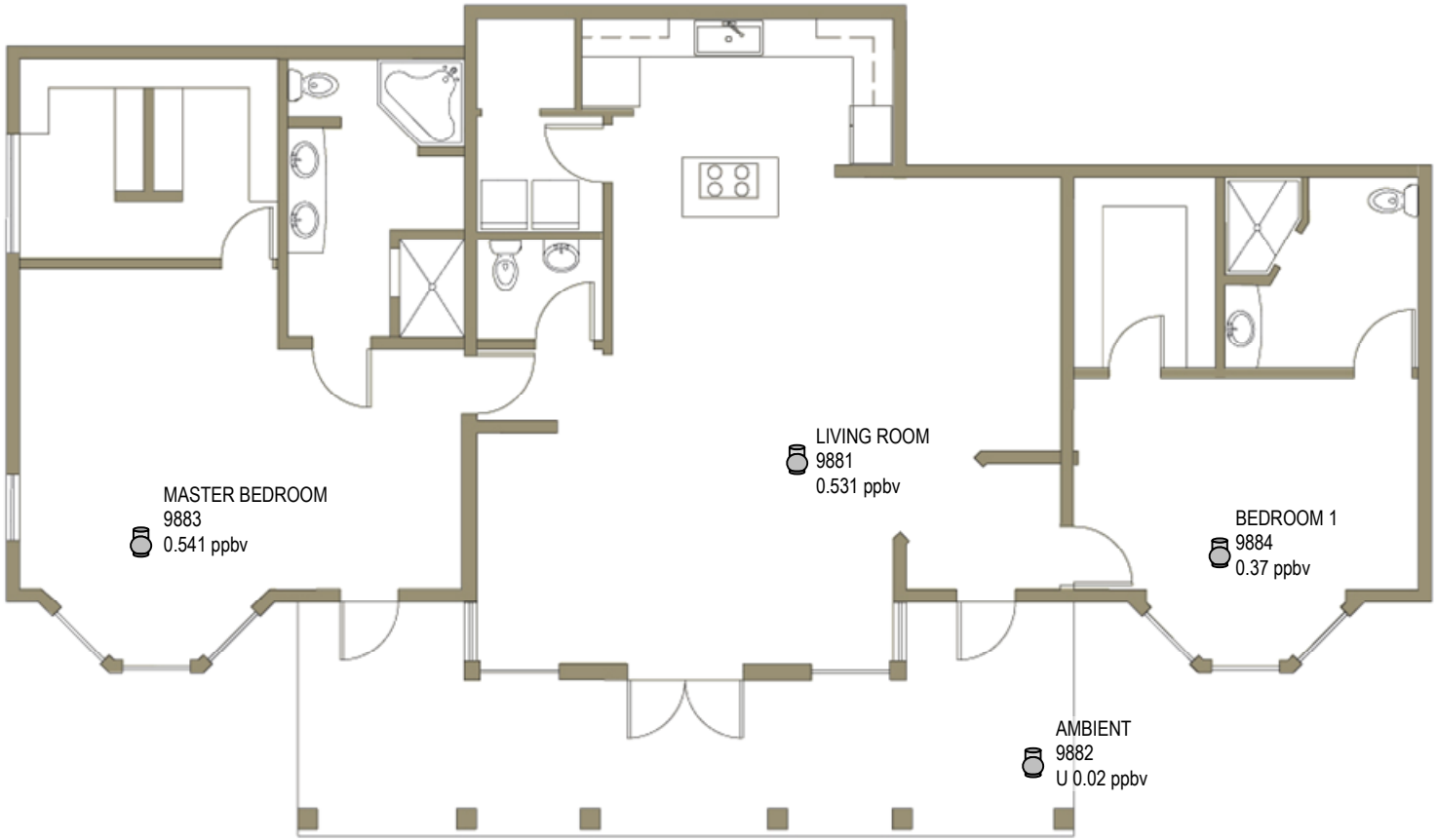

ppbv – parts per billion by volume

RESIDENCE J LOWER ENTRANCE
JUNE 3, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS




ppbv – parts per billion by volume
U – Not Detected

RESIDENCE J LOWER ENTRANCE
JUNE 5, 2015 – GRAB SAMPLE BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS




ppbv – parts per billion by volume
U – Not Detected

RESIDENCE J LOWER ENTRANCE
JUNE 6 – 7, 2015 – 24-HR SUMMA BROMOMETHANE RESULTS
METHYL BROMIDE RESPONSE
ST. JOHN, U.S. VIRGIN ISLANDS

APPENDIX C
SERAS Sampling Work Sheets
Methyl Bromide Response
St. John, U.S. Virgin Islands
July 2015

*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St. John

WA# _____

Sampler: AD/CG

U.S. EPA/ERT WAM: Singhvi

Date: 3/24/15

SERAS Task Leader: DuBois

| Sample # | 55000 | 55001 | 55002 | 55003 | 55004 |
|---|---|---|---|---|---|
| ~~[illegible]~~ CG Location | Kitchen | Outside near AC Units | MBR | CG ~~Site Outside near AC units~~ | (17 YO) BR2 |
| Sub-Location | Upper | Upper | Upper | CG ~~Upper~~ TB | Upper |
| Summa # | 14222 | 250 | 14250 | 14220 | 184 |
| Orifice ID | NA | NA | NA | NA | NA |
| Start Pressure | -29 | -29 | -29 | -29 | -29 |
| NIST Gauge S/N | CP150531 → | | | | |
| Flow Rate (Start) | | | | | |
| Flow meter | | | | | |
| Analysis/Method | | | | | |
| Time/Counter (Start) | 1315 | 1412 | 1314 | CG ~~1412~~ 1230 | 1323 |
| Time/Counter (Stop) | Grab | Grab | Grab | Grab | Grab |
| Total Time | | | | | |
| End Pressure | | | | | |
| NIST Gauge S/N | | | | | |

MET Station on Site?: Y / N

Temp: 72°F

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services**
**Air Sampling Work Sheet**

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-W-09-031

Site: St. John ER
WA#: 56-001
Sampler: SERAS / RST DUBOIS / LISICHENKO
EPA/ERT WAM: SINGHVI
Date: ~~3/26/14~~ (AD) 3/26/15
SERAS Task Leader: ~~PA~~ DUBOIS (FIELD)

| LOCATION ~~Sample~~ # | 1H | 1D | 2H | 2D | 3H |
|---|---|---|---|---|---|
| Location | Kitchen | vent | NIGHTSTAND KIDS BR | | Floor KID BR |
| SAMPLE ~~Pump~~ # | 55005 | 55006 | 55007 | 55008 | 55009 |
| Media | GAUZE | Teflon | Gauze | Teflon | Gauze |
| Analysis/Method | 1 | 2 | 1 | 2 | 1 |
| Date/Time/Count (Start) | | | | | |
| Date/Time/Count (Stop) | | | | | |
| Total Time | N/A | | | | |
| Flow Rate (Start) | | | | | |
| Flow Rate (Stop) | | | | | |
| Flow Rate (Average) | | | | | |
| Sample Volume | 100 cm² | | | | |

| MET Station on Site?: Y / N | Atmospheric Pressure (Local): | Ambient Sampling Temperature: |
|---|---|---|

1039 entered unit
1152 exit
10X10 template

Analysis 1 = Pesticides by SW846-8081A
Analysis 2 = Bromide by Ion chromatography following
10X10 template

gauze Lot 1709T5527

Teflon Lot - ~~Not Provided~~ (AD)
37mm PTFE Lot # 189 exp 8/31/19

NLOSH 7903

WIPES

72°F
51% RH } Per House hermostat

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services**
**Air Sampling Work Sheet**

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-W-09-031

Site: St. John ER
WA#: 56-001
Sampler: SERAS DUBOIS / RST USICHONKO
EPA/ERT WAM: SINGHVI
Date: 3/26/14
SERAS Task Leader: DUBOIS

| Sample # | 3D | 4H | 4D | 5H | 5D |
|---|---|---|---|---|---|
| Location | Floor KIDBR | TOILET TANK KIDS BATH | | Dresser MBR | |
| Pump # | 55010 | 55011 | 55012 | 55013 | 55014 |
| Media | Teflon | Gauze | Teflon | Gauze | Teflon |
| Analysis/Method | | | | | |
| Date/Time/Count (Start) | | | | | |
| Date/Time/Count (Stop) | | | | | |
| Total Time | | | | | |
| Flow Rate (Start) | | | | | |
| Flow Rate (Stop) | | | | | |
| Flow Rate (Average) | | | | | |
| Sample Volume | | | | | |

| MET Station on Site?: Y / N | Atmospheric Pressure (Local): | Ambient Sampling Temperature: |
|---|---|---|
| | | |

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services**
**Air Sampling Work Sheet**

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-W-09-031

Site: St JOHN ER

WA#:

Sampler:

EPA/ERT WAM:

Date: 3/26/15

SERAS Task Leader:

| Sample # | 6H | 6D | 7H | 7D | 8H |
|---|---|---|---|---|---|
| Location | END TABLE MBR | | Master toilet fan vent | | Fume HOOD |
| Pump # | 55015 | 55016 | 55017 | 55018 | 55019 |
| Media | | | | | |
| Analysis/Method | 1 | 2 | 1 | 2 | 1 |
| Date/Time/Count (Start) | | | | | |
| Date/Time/Count (Stop) | | | | | |
| Total Time | | | | | |
| Flow Rate (Start) | | | | | |
| Flow Rate (Stop) | | | | | |
| Flow Rate (Average) | | | | | |
| Sample Volume | | | | | |

| MET Station on Site?: Y / N | Atmospheric Pressure (Local): | Ambient Sampling Temperature: |
|---|---|---|
| | | |

*EPA/Environmental Response Team*

**Scientific Engineering Response and Analytical Services**

**Air Sampling Work Sheet**

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-W-09-031

Site: ST JOHN CO2

WA#:

Sampler:

EPA/ERT WAM:

Date: 3/26/15

SERAS Task Leader:

| | | | | | |
|---|---|---|---|---|---|
| Sample # | 8D | ~~9H (D)~~ | ~~9A (D)~~ | | |
| Location | Fume Hood | TEMPLATE BLANK | Template Blank | | |
| Pump # | 55020 | 55021 | 55022 | | |
| Media | | | | | |
| Analysis/Method | | | | | |
| Date/Time/Count (Start) | | | | | |
| Date/Time/Count (Stop) | | | | | |
| Total Time | | | | | |
| Flow Rate (Start) | | | | | |
| Flow Rate (Stop) | | | | | |
| Flow Rate (Average) | | | | | |
| Sample Volume | | | | | |

| | | |
|---|---|---|
| MET Station on Site?: Y / N | Atmospheric Pressure (Local): | Ambient Sampling Temperature: |

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services Contract**
**Air Sampling Work Sheet**
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-W-09-031

Site: St. John

WA#: 56-001

Sampler: AD

U.S. EPA/ERTC WAM: Singhvi

Date: 3/26/15

SERAS Task Leader: DuBois (FIG) Solinski

| Sample # | 55028 | 55029 | 55030 | 55031 | 55032 |
|---|---|---|---|---|---|
| Location | Upper Master | Master | Master-low | KITCHEN | KITCHEN |
| Pump # | 110 | 345 | 211 | 370 | 145 |
| Media | PUF | Anasorb | 747 | PUF | Anasorb 747 |
| Analysis/Method | TO10A | OSHA PV2040 | | TO10A | OSHA PV2040 |
| Rotameter | MC | MJ | ~~MJ~~ AD US12FS4034 | MC | MJ |
| Time/Counter (Start) | 0000 / 1808 | 0000 / 1808 | +1200 = 2008 / 1808 | 0000 / 1807 | 0000 / 1807 |
| Time/Counter (Stop) | 720 / 0608 | 669 / 3/27/15 0517 | 240 / 3/27/15 0008 | 720 / 0607 | 720 / 0607 |
| Total Time | 720 | 669 | 240 | 720 | 720 |
| Pump Fault | Y / N | Y / N | Y / N | Y / N | Y / N |
| Flow Rate (Start) | 1 LPM | 1 | 0.5 | 1 | 1 |
| Flow Rate (End) | 1 | 0.8 | 0.48 | 1 | 0.9 |
| Flow Rate Average | 1 | 0.9 | 0.49 | 1 | 0.95 |
| Sample Volume | 720 (L) | 602.1 (L) | 117.6 (L) | 720 (L) | 684 (L) |

MET Station on Site?: Y / N

3/27/15 entry 1051 exit 1113
3/27/15 1110 T 72 · 49% RH

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services Contract**
**Air Sampling Work Sheet**
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-W-09-031

Site: St. John

WA#:

Sampler: AD

U.S. EPA/ERTC WAM: Singhvi

Date: 3/26/15

SERAS Task Leader: DuBois

| Sample # | 55023 | 55024 | 55025 | 55026 | 55027 |
|---|---|---|---|---|---|
| Location | KITCHEN | BR2 | BR2 | BR2 | AMB |
| Pump # | 2589 | 457 | 213 | 7 | 25 |
| Media | Anasorb 747 | PUF | Anasorb 747 | | PUF |
| Analysis/Method | OSHA PV2040 | TO10A | OSHA PV2040 | | TO10A |
| Rotameter | US12F54034 ~~MJ~~ AD | MC | MJ | US12F54034 ~~MJ~~ AD | MC |
| 3/26/15 Time Counter (Start) | -120 1807=2007 | 0000 1806 | 0000 1806 | -120 1806=2006 | 0000 1812 |
| 3/27/15 Time Counter (Stop) | 240 0007 | 720 0606 | 720 0606 | 240 0006 | 720 0612 |
| Total Time | 240 min | 720 | 720 | 240 | 720 |
| Pump Fault | Y / N | Y / N | Y / N | Y / N | Y / N |
| Flow Rate (Start) | 0.5 | 1 | 1 | 0.5 | 1 |
| Flow Rate (End) | 0.53 | 1 | 0.94 | 0.51 | 1 |
| Flow Rate Average | 0.515 | 1 | 0.97 | 0.505 | 1 |
| Sample Volume | 123.6 ~~124~~ (L) | 720 (L) | 698.4 (L) | 121.2 (L) | 720 (L) |

MET Station on Site?: Y / N

SKC Anasorb 747
Lot # 9219
Exp June 2019

SKC PUF 226-124
Lot # 8659/8817/8659
Exp July 2015

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services Contract**
**Air Sampling Work Sheet**
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-W-09-031

Site: St John

WA#.

Sampler: AD

U.S. EPA/ERTC WAM: Singhvi

Date: 3/20/15

SERAS Task Leader: DuBois

| Sample # | 55033 | 55034 | 55035 | | |
|---|---|---|---|---|---|
| Location | AMB | FIELD | TRIP | | |
| Pump # | 214 | | | | |
| Media | Anasorb 747 | Anasorb 747 | | | |
| Analysis/Method | OSHA PV2040 | OSHA PV2040 | | | |
| Rotameter | MJ | — | — | | |
| Time/Counter (Start) | 1812 0000 | 1800 | 1800 | | |
| Time/Counter (Stop) | 0612 720 | 1100 | 1100 | | |
| Total Time | 720 | | | | |
| Pump Fault | Y / N | Y / N | Y / N | Y / N | Y / N |
| Flow Rate (Start) | 1 | — | — | | |
| Flow Rate (End) | 0.91 | — | — | | |
| Flow Rate Average | 0.905 | — | — | | |
| Sample Volume | 651.6 (L) | 0 | 0 | | |

MET Station on Site?: Y / N

*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St John
Sampler: AD/CG
Date: 3/27/15

WA# 56001
U.S. EPA/ERT WAM: Singhvi
SERAS Task Leader: DuBois

| Sample # | 55112 | 55113 | 55114 | 55115 | |
|---|---|---|---|---|---|
| Location | AMB | Lower Kitchen | Lower Utility Closet | TRIP | |
| Sub-Location | | | | | |
| Summa # | 209 | 266 | 14225 | 14066 | |
| Orifice ID | Grab | → | → | — | |
| Start Pressure | -29 | -29 | -29 | -29 | DED |
| NIST Gauge S/N | CP150531 | → | → | → | |
| Flow Rate (Start) | grab | grab | grab | — | |
| Flow meter | | | | | |
| Analysis/Method | | | | | |
| Time/Counter (Start) | CG ~~15~~ 1634 | 1558 | 1600 | 1630 | |
| Time/Counter (Stop) | ~~1720~~ | | | | |
| Total Time | | | | | |
| End Pressure | -2 | -1 | 0.5 | -29 | |
| NIST Gauge S/N | CP150531 | → | → | → | |

MET Station on Site?: Y / N

Temp 77°F

ALL Lower unit

*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St. John

Sampler: RST - Lisichenko (wipes)

Date: 3/28/15

WA#

U.S. EPA/ERT WAM:

SERAS Task Leader:

| Sample # | 55116 | 55121 | 55122 | 55117 | 55118 |
|---|---|---|---|---|---|
| Location | BACKGROUND A lower | A lower | A lower | I lower | I upper |
| Sub-Location | Common area | FRIDGE | FRIDGE WIPE gauze | Common Area | Common Area |
| Summa # | 14075 | WIPE PTFE | 14258 | 14255 | 14236 |
| Orifice ID | — | | | | |
| Start Pressure | -28.5 | — | -29 | -29 | -29 |
| NIST Gauge S/N | CP150531 | — | — | CP150531 | → |
| Flow Rate (Start) | — | — | — | — | |
| Flow meter | — | — | — | — | |
| Analysis/Method | TO15 | NIOSH 7903 | SW846-8081A | TO15 | TO15 |
| Time/Counter (Start) | 1345 | 1352 | 1354 | 1405 | 1457 |
| Time/Counter (Stop) | | | | | |
| Total Time | 1 min | — | — | 1 min | 1 min |
| End Pressure | 0 | — | — | 0 | 0 |
| NIST Gauge S/N | | | | | |

MET Station on Site?: Y / N

Kit/Dining lower LR

"A" lower Background + wipe "I lower" - Summa

Kitchen/Dining room

Kitchen/Dining room

Summa + WIPES

"A lower" - never exposed to Background

*EPA/Environmental Response Team*

**Scientific Engineering Response and Analytical Services**

**Air Sampling Work Sheet**

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-W-09-031

Site: St John

WA#: 56001

Sampler: AD/CG/ML

EPA/ERT WAM: Singhvi

Date: 3/27/15

SERAS Task Leader: DuBois

| Sample # | | | | | |
|---|---|---|---|---|---|
| Location | Lower Hot Water Tank | Lower Fume Hood | Kitchen Counter | Microwave | Toilet Tank |
| Hexane Pump # | 55102 | 55105 | 55109 | 55107 | 55111 |
| ~~Dry Media~~ | 55103 | 55104 | 55108 | 55106 | 55110 |
| Analysis/Method | | | | | |
| ~~Date/Time/Count (Start)~~ method D | | | | | |
| Date/Time/Count (Stop) | | | | | |
| ~~Total Time~~ | Template blank | Template Blank | | | |
| Flow Rate (Start) | PTFE | GAUZE | | | |
| Flow Rate (Stop) | 55123 | 55124 | | | |
| Flow Rate (Average) | 3/28/15 | 3/28/15 | | | |
| Sample Volume | | | | | |

| MET Station on Site?: Y (N) | Atmospheric Pressure (Local): | Ambient Sampling Temperature: 77°F |
|---|---|---|

WIPES

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services**
**Air Sampling Work Sheet**

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-W-09-031

Site: St John
WA#: 576001
Sampler: AD/CG
EPA/ERT WAM: Singhvi
Date: 3/27/15
SERAS Task Leader: DuBois

| Sample # | 55040 | 55041 | 55044 | 55042 | 55045 |
|---|---|---|---|---|---|
| Location | Lower KITCHEN | Lower KIT-LOW | KITCHEN | Lower Utility Rm | Lower Utility Rm |
| Pump # | 457 | 317 | 470 | 203 | 170 |
| Media | 747 Anasorb → | | PUF | Anasorb 747 | PUF |
| Analysis/Method | OSHA PV2040 | | TO10A | OSHA PV2040 | TO10A |
| Date/Time/Count (Start) 3/27/15 | 0000 / 1629 | -120 / 1629 | 0000 / 1629 | 0000 / 1629 | 0000 / 1629 |
| Date/Time/Count (Stop) 3/28/15 | / 0429 | 3/27/15 / 2229 | 720 / 0429 | 720 / 0429 | 720 / 0429 |
| Total Time | 720 | 240 | 720 | 720 | 720 |
| Flow Rate (Start) | 1 LPM | 0.1 LPM | 1 LPM | 1 LPM | 1 LPM |
| Flow Rate (Stop) | 0.92 | 0.108 | 0.9 | 0.74 | 1 |
| Flow Rate (Average) | 0.96 | 0.104 | 0.95 | 0.87 | 1 |
| Sample Volume | 691.2(L) | 25.0(L) | 684(L) | 626.4(L) | 720(L) |

MET Station on Site?: Y / N
Atmospheric Pressure (Local):
Ambient Sampling Temperature: 77°F

| Rotameter | MJ | MJ | MC | MJ | MC |
|---|---|---|---|---|---|

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services Contract**
**Air Sampling Work Sheet**
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-W-09-031

Site: St John

WA#: 56001

Sampler: AD/CG

U.S. EPA/ERTC WAM: Singhvi

Date: 3/27/15

SERAS Task Leader: DuBois

| Sample # | 55043 | 55119 | 55120 | | |
|---|---|---|---|---|---|
| Location | Ambient | FIELD | TRIP | | |
| Pump # | 1639 | — | — | | |
| Media | Anasorb 747 | → | → | | |
| Analysis/Method | OSHA PV2040 | → | → | | |
| Rotameter | MJ | — | — | | |
| Time/Counter (Start) | 1634 / 0000 | 1600 | 1600 | | |
| Time/Counter (Stop) | 0434 / 720 | 1600 | 1600 | | |
| Total Time | 720 | — | — | | |
| Pump Fault | Y / N | Y / N | Y / N | Y / N | Y / N |
| Flow Rate (Start) | 1 LPM | | | | |
| Flow Rate (End) | 0.92 | | | | |
| Flow Rate Average | 0.96 | | | | |
| Sample Volume | 691.2 (L) | 0 (L) | 0 (L) | | |

MET Station on Site?: Y / (N)

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services**
**Air Sampling Work Sheet**

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-W-09-031

Site: ST. JOHN
WA#: 56-001
Sampler: ~~SER~~ RST - LISICHENKO
EPA/ERT WAM: Singhvi
Date: 3/27/15
SERAS Task Leader: DUBIOS-FIELD (Solinski)

| Sample # | 55036 | 55037 | 55038 | 55039 | |
|---|---|---|---|---|---|
| Location | UPPER KITCHEN | ~~BR2~~ ~~UPPER~~ UPPER BR2 | UPPER-BR2 | TRIP BLANK | |
| DATE ~~Pump #~~ | 3/27/15 | 3/27/15 | 3/27/15 | 3/27/15 | |
| TIME ~~Media~~ | 1105 HRS | 1107 HRS | 1107 HRS | 1110 HRS | |
| Analysis/Method | VOC | VOC | VOC | VOC | |
| QC ~~Date/Time/Count (Start)~~ | MS/MSD | NORMAL | DUPLICATE | TRIP BLANK | |
| CONTAINER ~~Date/Time/Count (Stop)~~ | 40mL VOA | 40 mL VOA | 40 mL VOA | 40 mL VOA | |
| # OF CONTAINERS ~~Total Time~~ | 6 | 3 | 3 | 3 | |
| Flow Rate (Start) | | | | | |
| Flow Rate (Stop) | | | | | |
| Flow Rate (Average) | | | | | |
| Sample Volume | | | | | |

| MET Station on Site?: Y / N | Atmospheric Pressure (Local): | Ambient Sampling Temperature: |
|---|---|---|
| | | |

*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St. John

WA# 56-001

Sampler: RST-Lisichenko

U.S. EPA/ERT WAM: Singhvi

Date: 3/28/15

SERAS Task Leader: Solinski

| Sample # | 55046 | 55047 | 55048 | 55049 | 55050 |
|---|---|---|---|---|---|
| Location | LOWER KITCHEN | UPPER KITCHEN | TRIP BLANK | LOWER KITCHEN | FIELD BLANK |
| DATE ~~Sub-Location~~ | 3/28/15 | 3/27/15 | 3/28/15 | 3/28/15 | 3/28/15 |
| TIME ~~Summa #~~ | 1055 | 1100 HRS | 1500 HRS | 1058 HRS | 1505 HRS |
| ANALYSIS ~~Orifice ID~~ | BROMATE | BROMATE | BROMATE | VOC | VOC |
| QC ~~Start Pressure~~ | NONE | NONE | TRIP BLANK | NONE | FIELD BLANK ~~NONE~~ |
| CONTAINER ~~NIST Gauge S/N~~ | 1 L AMBER | 1 L AMBER | 1 L AMBER | ~~3x~~ 40mL | 40mL |
| # OF CONTAINERS Flow Rate (Start) | 1 | 1 | 1 | 3 | 3 |
| SAMPLE # ~~Flow meter~~ | 55152 | | | | |
| DATE ~~Analysis/Method~~ | 3/28/15 | | | | |
| ~~Time/Counter (Start)~~ TIME | TRIP BLANK 1506 | | | | |
| ~~Time/Counter (Stop)~~ ANALYSIS | VOC | | | | |
| QC ~~Total Time~~ | TRIP BLANK | | | | |
| CONTAINER ~~End Pressure~~ | 40mL | | | | |
| # OF SAMPLES ~~NIST Gauge S/N~~ | 3 | | | | |

MET Station on Site?: Y / N

Water

56-001

-Was done during ventilation-



*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St Johns ER

WA# 270

Sampler: J Yousefan

U.S. EPA/ERT WAM: R. Singhvi

Date: 4/~~13~~ 14 /2015 JY

SERAS Task Leader: Amy Dubois

| Sample # | 09821 | 09822 | | | |
|---|---|---|---|---|---|
| Location | Kitchen | Kitchen | | | |
| Sub-Location | upper J | lower J | | | |
| Summa # | 14253 | 14233 | | | |
| Orifice ID | — | — | | | |
| Start Pressure L/min | 29.2 | 29.1 | | JY | |
| NIST Gauge S/N | CP150529 | | | | |
| Flow Rate (Start) | NA | NA | | | |
| Flow meter | NA | NA | | | |
| Analysis/Method | TO-15 | TO-15 | | | |
| Time/Counter (Start) | 1545 | 1600 | | | |
| Time/Counter (Stop) | Grab | Grab | | | |
| Total Time | — | — | | | |
| End Pressure | — | — | | | |
| NIST Gauge S/N | CP150529 | | | | |

MET Station on Site?: Y (N)

Temperature - 75°F MR-0-20ppb
RH 52% (upper)

* Both units ac on, set to approximately 75°
Grab Sample, no trip blank (R. Singhvi)

(WAM has photo of lower temperature box.)
while contractor took grab sample)

* During ventilation



*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services Contract**
**Air Sampling Work Sheet**

Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-W-09-031

Sirenusa Condos,

Site: Methyl Bromide ER, St Johns

WA#: 0-270

Sampler: Josie Yousefan

U.S. EPA/ERT WAM: Raj Singhvi

Date: 4/15/15

SERAS Task Leader: Amy Dubo

| Sample # | Time | Sample Location Description | Approx. Area (include units) |
|---|---|---|---|
| 09823 | 1235 | Upper J- Kitchen floor, near dishwasher | 100 $cm^2$ |
| 09824 | 1237 | Upper J- Kitchen wall, near the Laundry room | 100 $cm^2$ |
| 09825 | 1240 | Upper J- Master bedroom wall, near the first closet opening. | 100 $cm^2$ |
| 09826 | 1242 | Upper J- Master bedroom floor in front of the master bed. | 100 $cm^2$ |
| 09827 | 1245 | Upper J- Bedroom 2 floor BR2 front of bed | 100 $cm^2$ |
| 09828 | 1248 | Upper J- Bedroom 2 wall BR2 near entrance wall. | 100 $cm^2$ |
| 09829 | 1251 | Upper J- Template blank | 100 $cm^2$ |
| 09830 | 1315 | Lower J- Kitchen floor near dishwasher | 100 $cm^2$ |

Comments:

Method- NIOSH ~~7903~~ 7903 Analysis- Bromide UMod, 7903
LOT- 37mm PTFE Lot # 318 exp. 12/31/16

Temp- (U) 71°F (L) 71°F RH- (U) 65% (L) 65%

Upper:
Enter unit - 1228
Exit unit - 1302
10x10 - Template

Lower:
Enter unit - 1312
Exit unit - 1330
MultiRAE - 0-30 ppb

*EPA/Environmental Response Team*
**Scientific Engineering Response and Analytical Services Contract**
**Air Sampling Work Sheet**

Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-W-09-031

Sirenusa Condos.

Site: Methyl Bromide ER, St Johns

WA#: 0-270

Sampler: Josie Yousefan

U.S. EPA/ERT WAM: Raj Singhvi

Date: 4/15/15

SERAS Task Leader: Amy Duboi

| Sample # | Time | Sample Location Description | Approx. Area (include units) |
|---|---|---|---|
| 09831 | 1317 | Lower J - Kitchen wall near pantry door | 100 cm² |
| 09832 | 1320 | Lower J - Master bedroom floor front of master bed | 100 cm² |
| 09833 | 1322 | Lower J - Master bedroom wall near closet door | 100 cm² |
| 09834 | 1325 | Lower J - Bedroom floor in front of bed | 100 cm² |
| 09835 | 1326 | Lower J - Bedroom wall near bed on wall by closet | 100 cm² |
| 09836 | 1330 | Lower J - Template blank | 100cm² |
| | 9y | 9y | |

Comments: Method - NIOSH 9M 7903 MODified Analysis Bromide
Lot - 37mm PTFE Lot #318 exp. 12/31/16

Temp-(u) 71°F (L) 6~~0~~°F 71 9y RH-(u) 65% (L)

Upper:
enter unit - 1228
exit unit - 1302

Lower
enter unit - 1312
exit unit - 1330

*During ventilation



*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St Johns ER
Sampler: J. Yousefan
Date: 4/17/15

WA# 270
U.S. EPA/ERT WAM: Raj Singhvi
SERAS Task Leader: Amy Dubas

| Sample # | 09837 | 09838 | 09839 | 09840 | |
|---|---|---|---|---|---|
| Location | Kitchen | Kitchen | Patio Clothes bag | Trip | |
| Sub-Location | Upper J | Lower J | Lower J | Blank | |
| Summa # | 112 | 194 | 127 | 13735 | |
| Orifice ID | — | — | — | — | |
| Start Pressure | -29 | -29 | -29.2 | -29.2 | |
| NIST Gauge S/N | CP150~~07~~ 529 | → | → | → | Cy |
| Flow Rate (Start) | NA | NA | NA | NA | |
| Flow meter | NA | NA | NA | NA | |
| Analysis/Method | Bromo | Methane | analysis | → | |
| Time/Counter (Start) | 0859 | 0909 | 0927 | 1230 | |
| Time/Counter (Stop) | Grab- | Grab- | Grab | Blank | |
| Total Time | — | — | — | — | |
| End Pressure | ~~0~~ | ~~0~~ | ~~0~~ | -29.2 | |
| NIST Gauge S/N | CP150529 | → | → | → | |

MET Station on Site?: Y / N

Upper – Temp 73°F RH 70°F (Low) Lower – Temp 74° RH 69% (Up)

MultiRAE – 10-20ppb (Both units) 0-30ppb (up)

- Post Ventilation



*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St Johns ER

WA# 270

Sampler: J Yousefan

U.S. EPA/ERT WAM: R. Singhvi

Date: 4/13/2015 16 94 4/18/15 - 4/19/15

SERAS Task Leader: Amy Dubois

| Sample # | 09907 | 09902 | 09910 | 09903 | 09904 |
|---|---|---|---|---|---|
| Location | Kitchen | Master | BR1 | BR2 | Kitchen |
| Sub-Location | Upper | Upper | Upper | Upper | Lower |
| Summa # | 14254 | 14245 | 14403 | 150 | 14396 14213 94 |
| Orifice ID | 14011 | 013991 | 13955 | 14016 | 13762 |
| Start Pressure in/Hg | -29 | -29.1 | -29.1 | -29 | -29 |
| NIST Gauge S/N | CP150529 → | | | | |
| Flow Rate (Start) | -3.6 | -3.75 | -3.3 | -3.6 | -3.6 |
| Flow meter | 012746 → | | | | |
| Analysis/Method | TO-15 → | | | | |
| Time/Counter (Start) 4/18/15 | 1653 | 1655 | 1653 | 1654 | 1741 |
| Time/Counter (Stop) 4/19/15 | 1639 | 1641 | 1640 | 1640 | 1717 |
| Total Time | 2346 | 2346 | 2347 | 2346 | 2336 |
| End Pressure | -3.5 | -2.5 | -7.0 | -4.0 | -2.6 |
| NIST Gauge S/N | CP150529 → | | | | |

MET Station on Site?: Y / N

Upper J (Start) Temperature - 84° RH - 63%

Lower J (Start) Temperature - 79° RH - NA 4/18/15

MultiRAE - 0ppb

-Post ventilation



*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St Johns ER

WA# 270

Sampler: J Yousefan

U.S. EPA/ERT WAM: R. Singhvi

Date: ~~4/13/2015~~ 4/18/15 - 4/19/15

SERAS Task Leader: Amy Dubois

| Sample # | 09906 | 09905 | 09908 | 09909 | 09911 |
|---|---|---|---|---|---|
| Location | Bedroom | Master | Patio | St Thomas | Trip |
| Sub-Location | Lower | Lower | Lower | North | Blank |
| Summa # | 14238 | 13741 | 14068 | 14071 | 14242 |
| Orifice ID | 13914 | 14014 | 13956 | — | — |
| Start Pressure in/Hg | -29 | -29 | -29 | -29 | -29 |
| NIST Gauge S/N | CP150529 → | | | | |
| Flow Rate (Start) | -3.33 | -3.7 | -3.58 | NA | NA |
| Flow meter | 012746 | 012746 | 012746 | NA | NA |
| Analysis/Method | TO-15 → | | | | |
| Time/Counter (Start) 4/18/15 | 1752 | 1751 | 1752 | 1850 | NA (1200) |
| Time/Counter (Stop) 4/19/15 | 1717 | 1717 | 1717 | Grab | NA |
| Total Time | 2325 | 2326 | 2325 | — | — |
| End Pressure | -4.5 | -4.0 | -4.0 | — | — |
| NIST Gauge S/N | CP150529 → | | | | |

MET Station on Site?: Y (N)

Upper J (Finish) Temperature - 80°F RH - 56%

Lower J (Finish) Temperature - 79°F RH - NA

MultiRAE - 40ppb

*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St Johns ER

WA# 270

Sampler: J Yousefan

U.S. EPA/ERT WAM: R. Singhvi

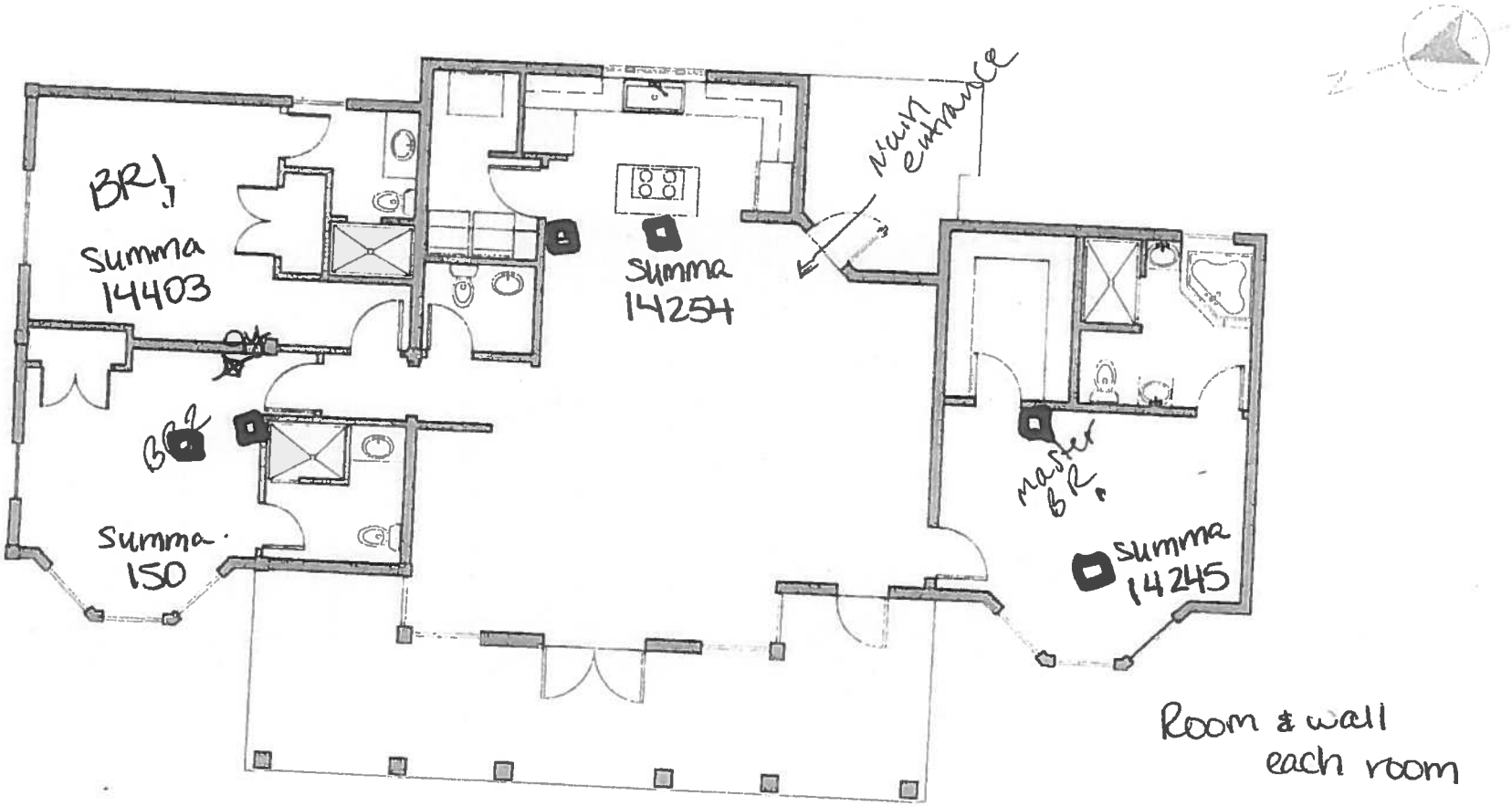
Date: 4/~~1~~/2015 4/19/15

SERAS Task Leader: Amy Dubois

| Sample # | 09913 | 09914 | 09915 | 09916 |
|---|---|---|---|---|
| Location | Club House AA | ~~Patio~~ ~~Porch~~ AA | Ferry | Route 315 |
| Sub-Location | Lower | Lower | — | On way to Marriot |
| Summa # | 1133 | 185 | 77 | 16 |
| Orifice ID | NA | NA | NA | NA |
| Start Pressure in/Hg | -29 | -29 | -29 | -29 |
| NIST Gauge S/N | CP150529 → | | | |
| Flow Rate (Start) | NA | NA | NA | NA |
| Flow meter | NA | NA | NA | NA |
| Analysis/Method | TO-15 → | | | |
| Time/Counter (Start) 4/19/15 | 1245 | 1252 | 1830 | 2015 |
| Time/Counter (Stop) | Grab | Grab | Grab | Grab |
| Total Time | — | — | — | — |
| End Pressure | 0 | 0 | 0 | 0 |
| NIST Gauge S/N | CP150529 → | | | |

MET Station on Site?: Y / N

Outdoor Grab samples.
No MultiRAE was used.
Two on site, two off site.

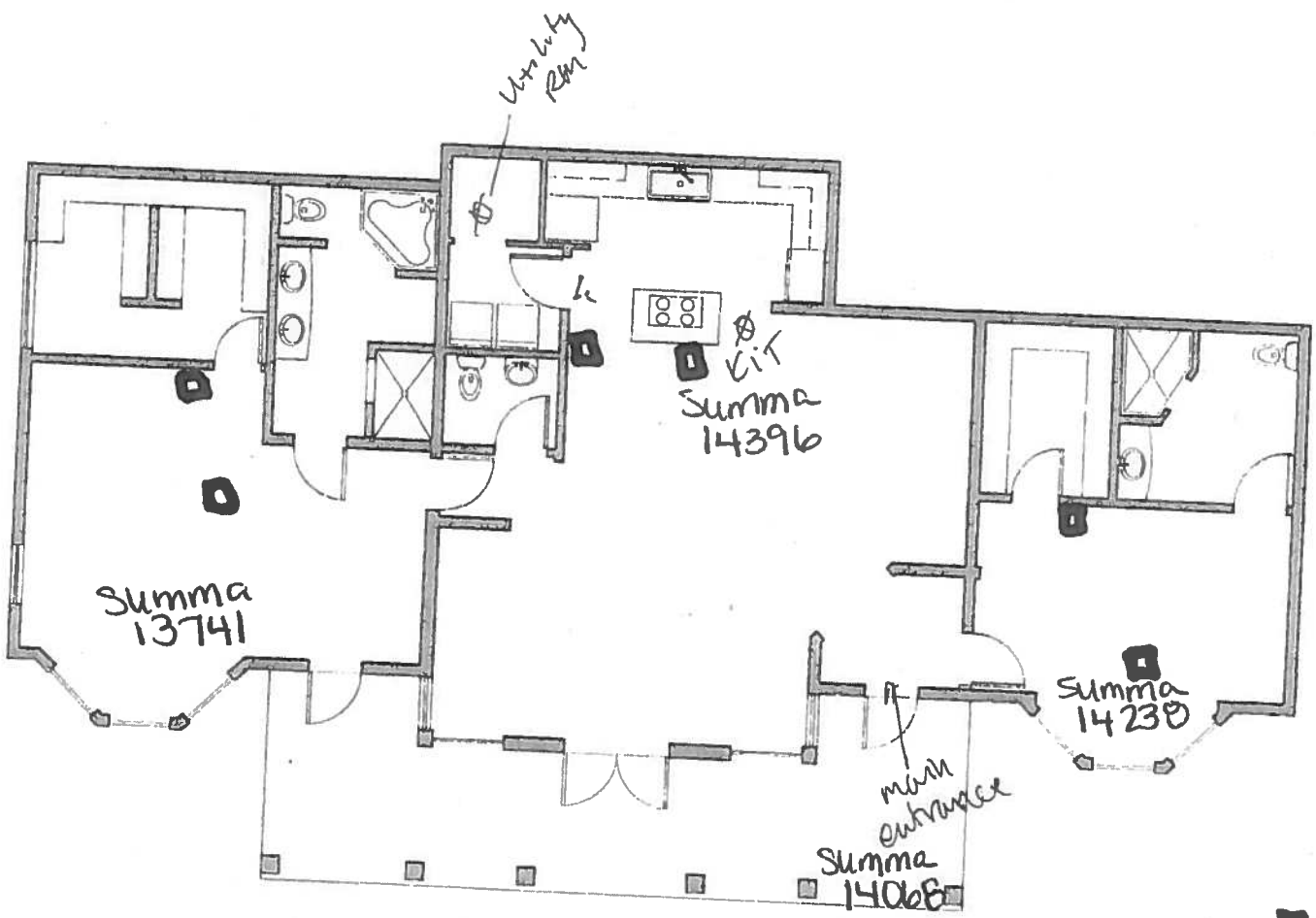



Room & wall
each room

**□-wipe sample**

Summa- 24-hour

UPPER ENTRANCE | VILLA CAPRI




15

■ wipe Sample

Summa - 24hour

LOWER ENTRANCE | VILLA POSITANO

TRIP 2

Page ____ of ____

*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St John ER

WA# 270

Sampler: J. Youseton/J Brandene

U.S. EPA/ERT WAM: Raj Singhvi

Date: 4/27/15

SERAS Task Leader: Amy Dubois

| Sample # | 09921 | 09922 |
|---|---|---|
| Location | Kitchen | Kitchen |
| Sub-Location | Lower ~~Inlet~~ outlet | Lower ~~Outlet~~ Inlet |
| Summa # | 143 | 203 |
| Orifice ID | NA | NA |
| Start Pressure | -29.6 | -29.6 |
| NIST Gauge S/N | CP150104 | |
| Flow Rate (Start) | NA | NA |
| Flow meter | NA | NA |
| Analysis/Method | Bromo | Methane |
| Time/Counter (Start) | 1556 | 1556 |
| Time/Counter (Stop) | 1557 Grab | 1557 Grab |
| Total Time | — | — |
| End Pressure | 0 | 0 |
| NIST Gauge S/N | CP150104 | |

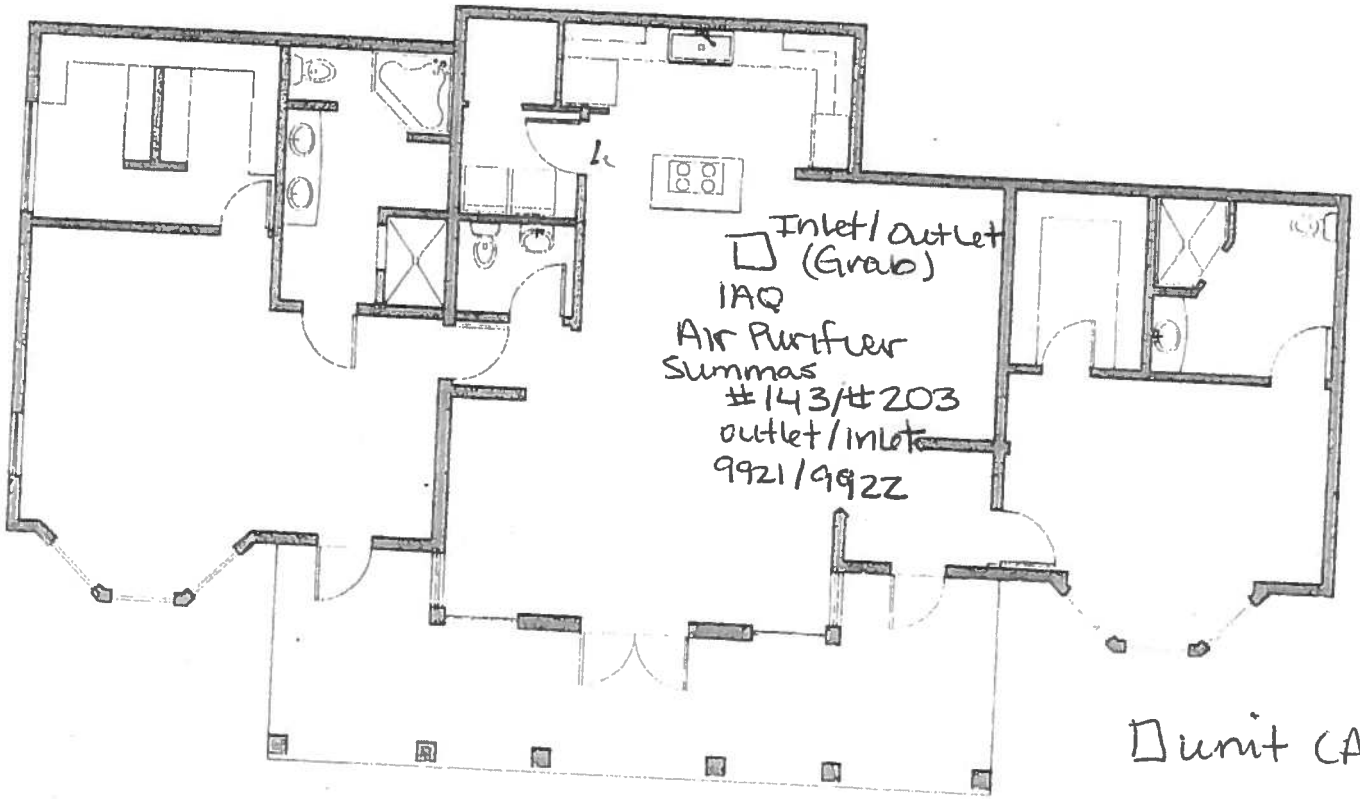
MET Station on Site?: Y/N

-Sample from in/out air purifier.
Time: 1600 (left unit Lower J)
Temperature: 84°
MR Reading - 0 VOC (MultiRAE)

--Per WAM do not send trip blank.
-Switch inlet and outlet (wrong) Per Raj Singh

Sample Numbers-
9921-9922

4/27/15
Summa
Grab Samples

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□ unit (Air Purifier)

LOWER ENTRANCE | VILLA POSITANO

*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St John ER

WA# 270

Sampler: J. Yousefian / J Brandine

U.S. EPA/ERT WAM: Raj Singhvi

Date: 4/28/15

SERAS Task Leader: Amy Dubois

| Sample # | 09923 | 09924 | 09925 | 09926 | 09927 |
|---|---|---|---|---|---|
| Location | Kitchen | Master Bedroom | Sofa | Pillows | Patio AA |
| Sub-Location | Lower J | Lower J | Lower J | Lower J | Lower J |
| Summa # | 119 | 70 | 235 | 280 | 94 |
| Orifice ID | NA | NA | NA | NA | NA |
| Start Pressure | -29.5 | -29.5 | -29.5 | -29.6 | -29.7 |
| NIST Gauge S/N | CP150104 | → | → | → | → |
| Flow Rate (Start) | NA | NA | NA | NA | NA |
| Flow meter | NA | NA | NA | NA | NA |
| Analysis/Method | Bromo | Methane | → | → | → |
| Time/Counter (Start) | 1133 | 1134 | 1138 | 1141 | 1201 |
| Time/Counter (Stop) | 1134 Grab | 1135 Grab | 1139 Grab | 1142 Grab | 1202 Grab |
| Total Time | Grab | Grab | Grab | Grab | Grab |
| End Pressure | 0 | 0 | -5 | 0 | |
| NIST Gauge S/N | CP150104 | → | → | → | → |

MET Station on Site?: Y / N

Temperature - 84°
MR Reading - 0ppb.
(MULTIRAE)

Grab samples all taken in our outside Lower J

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**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St John ER

Sampler: J. Yousefan

Date: 4/28/15

WA# 0-270

U.S. EPA/ERT WAM: Raj Singhvi

SERAS Task Leader: Amy Dubow

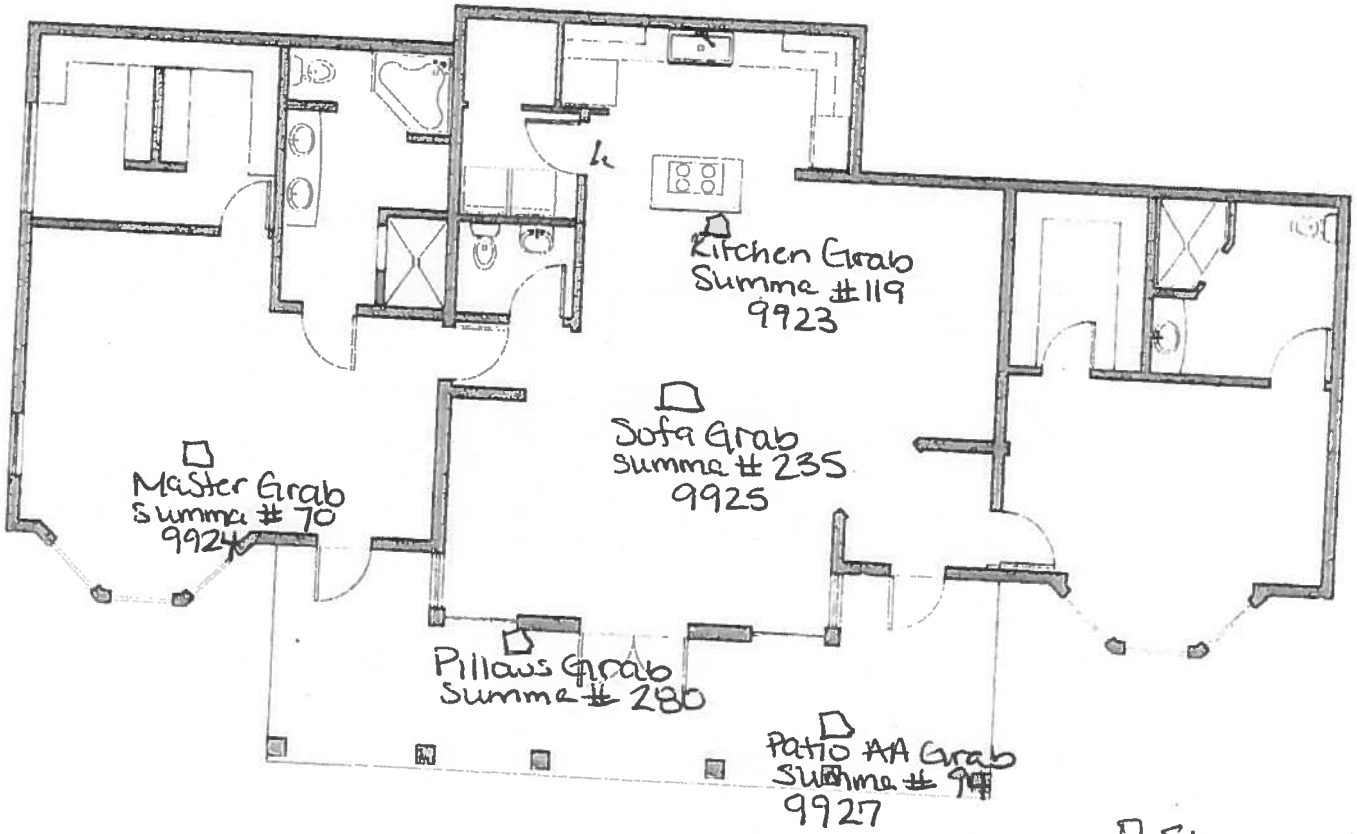
| | |
|---|---|
| Sample # | 09928 |
| Location | Market Place |
| Sub-Location | St John |
| Summa # | 238 |
| Orifice ID | NA |
| Start Pressure | -29.5 |
| NIST Gauge S/N | CP150104 |
| Flow Rate (Start) | NA |
| Flow meter | NA |
| Analysis/Method | Bromo methane |
| Time/Counter (Start) | 1343 |
| Time/Counter (Stop) | 1344 Grab |
| Total Time | Grab |
| End Pressure | 0 |
| NIST Gauge S/N | CP150104 |

MET Station on Site?: (Y) / N

Page 2 of 2 Grab samples taken in and outside of Lower J, one near market place.

Sample Numbers -
9923 - 9927

4/28/15
Grab Samples
Summa

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Summa Location

LOWER ENTRANCE | VILLA POSITANO

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**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St John ER
Sampler: J. Yousefan
Date: 4/29/15

WA# 0270
U.S. EPA/ERT WAM: Raj Singhvi
SERAS Task Leader: Amy Dubois

| Sample # | 09929 | 09930 | 09871 | 09872 | |
|---|---|---|---|---|---|
| Location | Kitchen | Living room | Laundry room | South side AA | |
| Sub-Location | Lower J | Lower J | Lower J | St. John | |
| Summa # | 96 | 75 | 135 | 004 | |
| Orifice ID | NA | NA | NA | NA | |
| Start Pressure | -29.5 | -29.5 | -29.6 | -29.4 | |
| NIST Gauge S/N | CP150104 → | | | | |
| Flow Rate (Start) | NA | NA | NA | NA | |
| Flow meter | NA | NA | NA | NA | |
| Analysis/Method | Bromo Methane → | | | | |
| Time/Counter (Start) | 1500 | 1500 | 1505 | 1243 | |
| Time/Counter (Stop) | 1501 | 1501 | 1506 | 1244 | |
| Total Time | Grab | Grab | Grab | Grab | |
| End Pressure | 0 | 0 | 0 | 0 | |
| NIST Gauge S/N | CP150104 → | | | | |

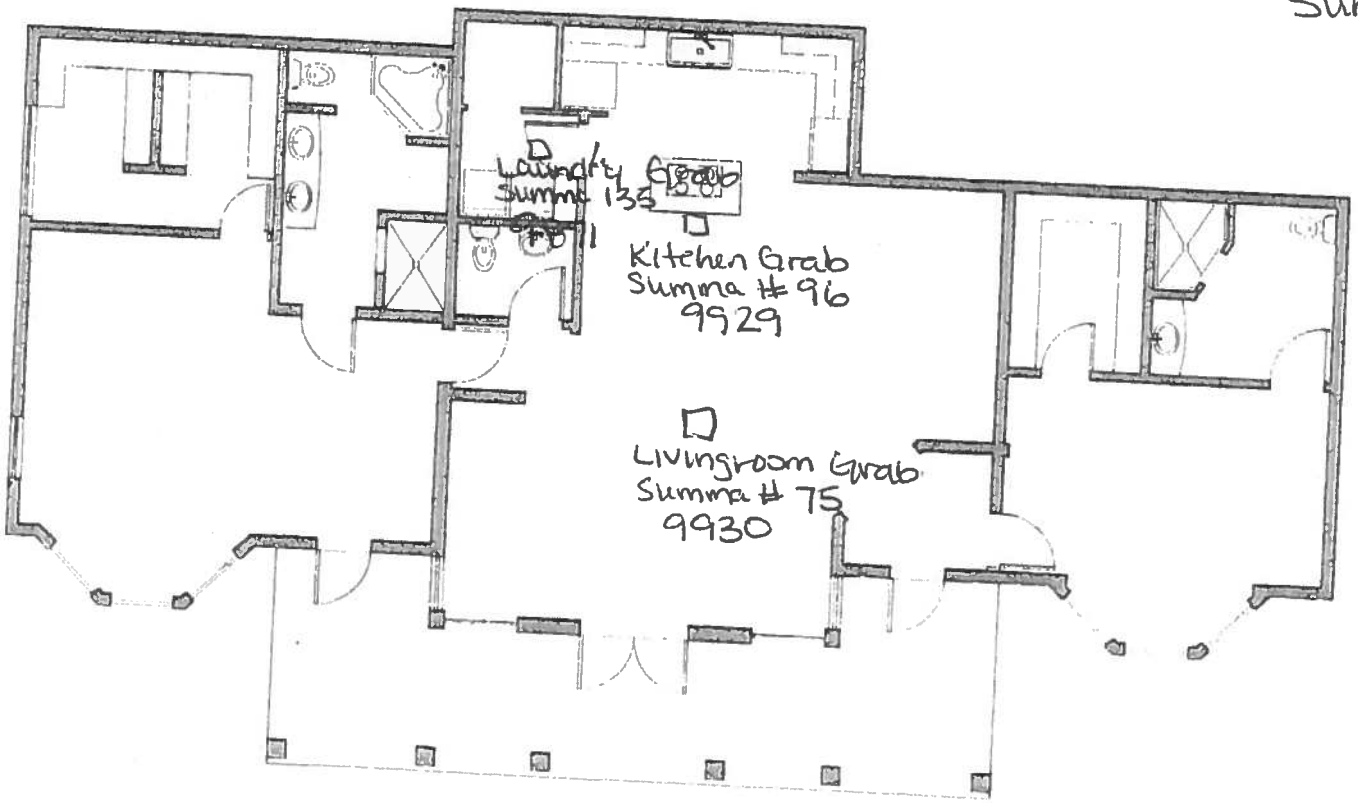
MET Station on Site?: Y (N)

Per WAM no Trip Blank

Temperature - 85°F
MR Reading - not used.
RH - 57%

Sample Numbers –
9929 – 9871
9930

4/29/15
Grab Samples
Summa

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LOWER ENTRANCE | VILLA POSITANO

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**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St John ER

Sampler: J. Yousefian

Date: 5/1/15

WA# 270

U.S. EPA/ERT WAM: Raj Singhvi

SERAS Task Leader: Amy Dubois

| Sample # | 09878 | 09879 | | | |
|---|---|---|---|---|---|
| Location | Mattress | Kitchen wall cavity | | | |
| Sub-Location | Lower J | Lower J | | | |
| Summa # | 55 | 279 | | | |
| Orifice ID | NA | NA | | | |
| Start Pressure | -29.5 | -29.5 | | | |
| NIST Gauge S/N | CP150104 | | | | |
| Flow Rate (Start) | NA | NA | | | |
| Flow meter | NA | NA | | | |
| Analysis/Method | Bromo | Methane | | | |
| Time/Counter (Start) | 1007 | 1007 | | | |
| Time/Counter (Stop) | 1003 | 1008 | | | |
| Total Time | Grab | Grab | | | |
| End Pressure | 0 | 0 | | | |
| NIST Gauge S/N | CP150104 | | | | |

MET Station on Site?: Y / N (N)

Temperature 78°
Inside wall MR-60ppb

Page ____ of ____

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**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet Summa**

Site: St John ER

Sampler: J. Yousefan

Date: 5/1/15 - 5/2/15

WA# 270

U.S. EPA/ERT WAM: Raj Singhvi

SERAS Task Leader: Amy Dubois

| Sample # | 9873 | 9874 | 9875 | 9876 | 9877 |
|---|---|---|---|---|---|
| Location | Kitchen/ Living room | Master | Bedroom | Patio | Trip |
| Sub-Location | Lower J | Lower J | Lower J | Lower J | Blank |
| Summa # | 101 | 14405 | 137 | 163 | 223 |
| Orifice ID | 13928 | 13783 | 14029 | 13948 | 13954 |
| Start Pressure | -29.4 | -29.5 | -29.5 | -29.5 | -29.5 |
| NIST Gauge S/N | CP150104 | → | → | → | → |
| Flow Rate (Start) | -3.66 | -3.67 | -3.55 | -3.69 | NA |
| Flow meter | US11347136 | → | → | → | NA |
| Analysis/Method | TO-15 | → | → | → | → |
| Time/Counter (Start) | 1512 | 1512 | 1513 | 1514 | — |
| Time/Counter (Stop) | 1452 | 1452 | 1454 | 1455 | 1300 |
| Total Time | | | | | — |
| End Pressure | 0 | -4 | -6 | -3 | -29.5 |
| NIST Gauge S/N | CP150104 | → | → | → | → |

MET Station on Site?: Y / N

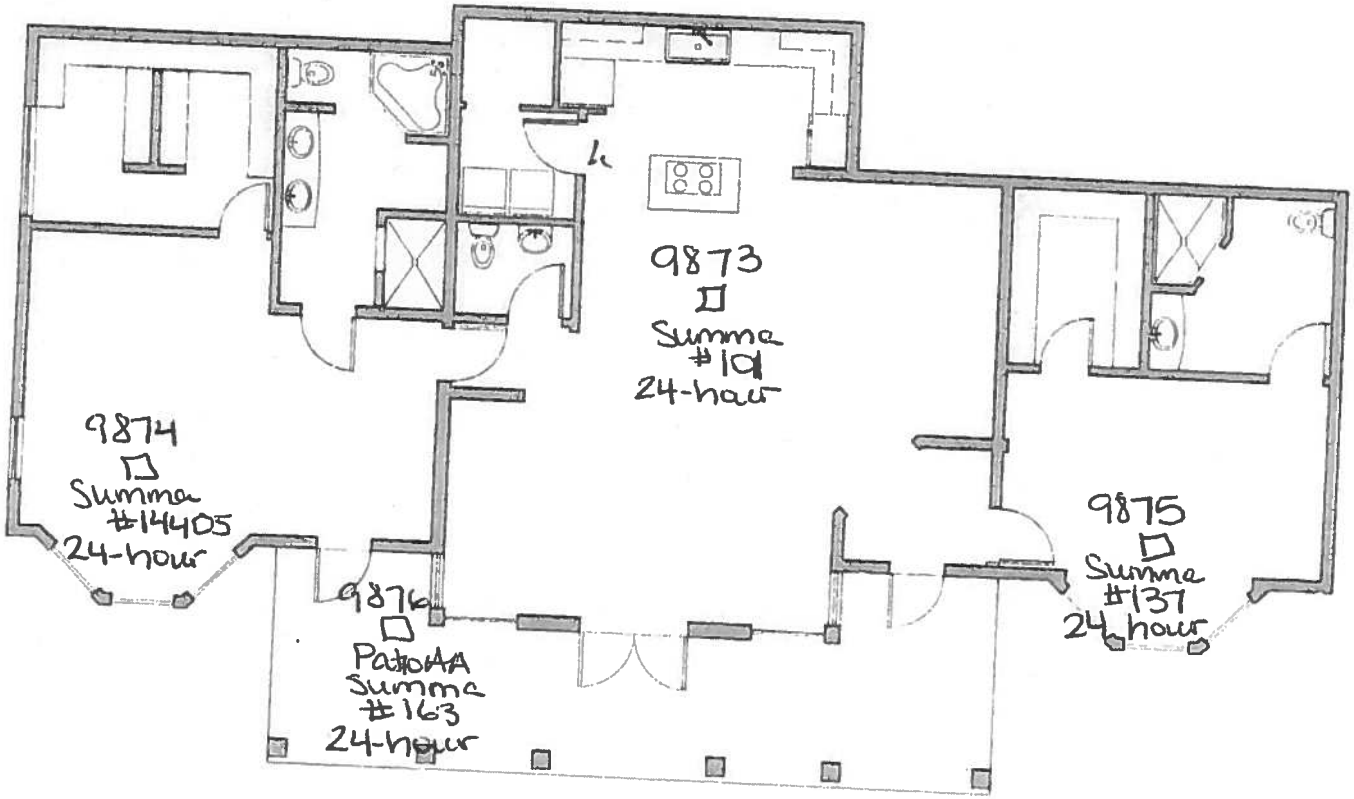
24-hour Summa sampling

Clearance Sampling.

Final temp - 83°F RH 59.2%

Sample Numbers-
9873 - 9876

5/1/15 - 5/2/15
24-Hour Summa Sampling




□ * Summa Location

LOWER ENTRANCE | VILLA POSITANO

TRIP 3

Page ____ of ____

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**Air Sampling Work Sheet - SUMMA**

Site: ST JOHN ER

WA# 0-270

Sampler: GERALD BALL

U.S. EPA/ERT WAM: RAJ SINGHVI

Date: 5/12/15

SERAS Task Leader: AMY DUBOIS

| | | | | | |
|---|---|---|---|---|---|
| Sample # | 09891 | 09892 | 09893 | | |
| Location | Kitchen | Kitchen | Kitchen | | |
| Sub-Location | WALL | Ceiling | ~~[illegible]~~ Dry WALL | | |
| Summa # | 014219 | 014238 | N/A JAR | | |
| Orifice ID | 014041 | N/A | N/A | | |
| Start Pressure | -29" Hg | -29" Hg | N/A | | |
| NIST Gauge S/N | CP150530 | CP150530 | N/A | | |
| Flow Rate (Start) | 3.49 ml/min | Grab | N/A | | |
| Flow meter | 11047136 ~~014041~~ Grab | N/A | N/A | | |
| Analysis/Method | TO-15 Methyl Bromide | TO-15 Methyl Bromide | N/A | | |
| Time/Counter (Start) | 11:54 am | 12:00 | N/A | | |
| Time/Counter (Stop) | 11:40 am | 12:05 | N/A | | |
| Total Time | 23:46 min | Same | N/A | | |
| End Pressure | -3" Hg | 0 | N/A | | |
| NIST Gauge S/N | CP150530 | CP150530 | N/A | | |

MET Station on Site?: Y / N

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**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet - SUMMA**

Site: ST JOHN ER

WA# 0-270

Sampler: GERALD BALL

U.S. EPA/ERT WAM: RAJ SINGHVI

Date: 5/13/15 - 5/14/15

SERAS Task Leader: AMY DUBOIS

| Sample # | 09931 | 09932 | | | |
|---|---|---|---|---|---|
| Location | Living Room Isolated | Livingroom/ kitchen | | | |
| Sub-Location | N/A | Lower J | | | |
| Summa # | 14247 | 13788 | | | |
| Orifice ID | N/A | N/A | | | |
| Start Pressure | -29.2" Hg | -29.2" Hg | | | |
| NIST Gauge S/N | CP150530 → | | | | |
| Flow Rate (Start) | Grab | Grab | | | |
| Flow meter | N/A | N/A | | | |
| Analysis/Method | TO-15 Methyl Bromide → | | | | |
| Time/Counter (Start) | 1420 | 0932 | | | |
| Time/Counter (Stop) | 1420 | 0932 | | | |
| Total Time | Grab | Grab | | | |
| End Pressure | ~~0~~ | ~~0~~ | | | |
| NIST Gauge S/N | CP150530 | | | | |

MET Station on Site?: Y / N

Analyze grab samples for Bromo Methane.
9931 was taken with no open windows or doors.
9932 was taken with air flowing through unit.

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**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet - SUMMA**

Site: ST JOHN ER

WA# 0-270

Sampler: J YOUSEFAN

U.S. EPA/ERT WAM: RAJ SINGHVI

Date: 5/15/15

SERAS Task Leader: AMY DUBOIS

| Sample # | 09935 | 09936 | | | |
|---|---|---|---|---|---|
| Location | Kitchen Cabinet | Ambient Patio | | | |
| Sub-Location | Lower J | Lower J ~~AA~~ | | | |
| Summa # | 14225 | 13745 | | | |
| Orifice ID | NA | NA | | | |
| Start Pressure | -28.7 | -29.6 | | | |
| NIST Gauge S/N | CP1505 ~~3894~~ | | | | |
| Flow Rate (Start) | NA | NA | | | |
| Flow meter | NA | NA | | | |
| Analysis/Method | Bromo | Methane | | | |
| Time/Counter (Start) | 1324 | 1324 | | | |
| Time/Counter (Stop) | 1325 | 1325 ~~94~~ | | | |
| Total Time | Grab | Grab | | | |
| End Pressure | ~~0~~ | ~~0~~ | | | |
| NIST Gauge S/N | CP1505 ~~3894~~ | | | | |

MET Station on Site?: Y (N)

Lower J.

Two grab samples taken, one inside Kitchen cabinet (Lower J) other was ambient on patio. No trip blank.

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**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet - SUMMA**

Site: ST JOHN ER

WA# 0-270

Sampler: J YOUSEFAN

U.S. EPA/ERT WAM: RAJ SINGHVI

Date: 5/16/15 - 5/17/15

SERAS Task Leader: AMY DUBOIS

| Sample # | 09937 | 09938 | 09939 | 09940 | 09941 |
|---|---|---|---|---|---|
| Location | Kitchen/ Livingroom | Master Bedroom | Bedroom | Patio AA | Kitchen/ Livingroom |
| Sub-Location | Lower J | Lower J | Lower J | Lower J | Lower J Dup |
| Summa # | 14248 | 14231 | 14401 | 14236 | 14068 |
| Orifice ID | 13984 | 13917 | 13918 | 13785 | 13784 |
| Start Pressure | -29.0 | -29.4 | -29.0 | -29.1 | -29.0 |
| NIST Gauge S/N | CP150530 → | | | | |
| Flow Rate (Start) | -3.48 | -3.67 | -3.78 | -3.58 | -3.69 |
| Flow meter | US11B4 7136 → | | | | |
| Analysis/Method | TO-15 → | | | | |
| Time/Counter (Start) | 1355 | 1355 | 1354 | 1354 | 1355 |
| Time/Counter (Stop) | 1341 | 1341 | 1340 | 1340 | 1341 |
| Total Time | | | | | |
| End Pressure | CP150530 → | | | | |
| NIST Gauge S/N | -5 | -3.5 | -4.5 | -2.5 | -3.5 |

MET Station on Site?: Y / N

Start summa 24-hour - 85° (inside)
All large fans off, windows closed.
Final temperature end of 24-hours - 85° (inside)

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**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet - SUMMA**

Site: ST JOHN ER

WA# 0-270

Sampler: J YOUSEFAN

U.S. EPA/ERT WAM: RAJ SINGHVI

Date: 5/16/15-5/17/15

SERAS Task Leader: AMY DUBOIS

| | | | | | |
|---|---|---|---|---|---|
| Sample # | 09942 | | | | |
| Location | Trip | | | | |
| Sub-Location | Blank | | | | |
| Summa # | 14218 | | | | |
| Orifice ID | | | | | |
| Start Pressure | CP150530 | | | | |
| NIST Gauge S/N | 29.2 | | | | |
| Flow Rate (Start) | NA | | | | |
| Flow meter | NA | | | | |
| Analysis/Method | TO-15 | | | | |
| Time/Counter (Start) | 1300 | | | | |
| Time/Counter (Stop) | — | | | | |
| Total Time | TRIP | | | | |
| End Pressure | 29.2 | | | | |
| NIST Gauge S/N | — | | | | |

MET Station on Site?: Y / N

TRIP 4



*EPA/Environmental Response Team*
**Scientific, Engineering, Response and Analytical Services**
**Lockheed Martin Corp., Edison, NJ**
**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet - SUMMA**

Site: ST JOHN ER

WA# 0-270

Sampler: Josie Yousefan

U.S. EPA/ERT WAM: RAJ SINGHVI

Date: 6/4/15 - 6/5/15

SERAS Task Leader: AMY DUBOIS

| Sample # | 09954 | 09955 | 09956 | 09957 | |
|---|---|---|---|---|---|
| Location | Kitchen cabinet | Kitchen | Kitchen cabinet | Kitchen/Livingroom | |
| Sub-Location | Lower J | Lower J | Lower J | Lower J | |
| Summa # | 14253 | 14242 | 14403 | 14246 | |
| Orifice ID | NA 6/4/15 | NA 6/5/15 | NA 6/5/15 | NA 6/5/15 | OK |
| Start Pressure | -29.6 | -29.6 | -29.4 | -29.6 | |
| NIST Gauge S/N | CP150 104 | CP150 104 | CP150 104 | CP150 104 | |
| Flow Rate (Start) | NA | NA | NA | NA | |
| Flow meter | — | — | — | — | |
| Analysis/Method | Bromo | Methane → | | | |
| Time/Counter (Start) | 1600 | 0859 | 1230 | 1230 | |
| Time/Counter (Stop) | Grab | Grab | Grab | Grab | |
| Total Time | Grab | Grab | Grab | Grab | |
| End Pressure | Θ | Θ | Θ | Θ | |
| NIST Gauge S/N | CP150104 → | | | | |

MET Station on Site?: Y / N

Grab Samples from 5/4/15 & 5/5/15
After they heated unit over 2-days.
Temperature was approximately 90°C.
Grey Wolf road Θ ppb. Analyze Bromo Meth

*EPA/Environmental Response Team*
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**U.S. EPA Contract No. EP-W-09-031**

**Air Sampling Work Sheet - SUMMA**

Site: ST JOHN ER

WA# 0-270

Sampler: Josie Yousefan / Raj Singhvi

U.S. EPA/ERT WAM: RAJ SINGHVI

Date: 6/6/15 - 6/07/15

SERAS Task Leader: AMY DUBOIS

| Sample # | 09881 | 09882 | 09883 | 09884 | 09885 |
|---|---|---|---|---|---|
| Location | Kitchen/ Livingroom | Patio AA | Master | Bedroom | Trip |
| Sub-Location | Lower J | Lower J | Lower J | Lower J | Lower J |
| Summa # | 13749 | 14258 | 14067 | 14066 | 13741 |
| Orifice ID | 13993 | 13782 | 14047 | 14011 | NA |
| Start Pressure | -29.5 | -29.6 | -29.6 | -29.6 | -29.5 |
| NIST Gauge S/N | CP150104 | → | | | → |
| Flow Rate (Start) | -3.52 | -3.67 | -3.37 | -3.64 | |
| Flow meter | 012745 | → | | | → |
| Analysis/Method | Bromo Methane | → | | | → |
| Time/Counter (Start) 6/6/15 | 6/6/15 1331 | 1332 | 1330 | 1331 | 1300 |
| Time/Counter (Stop) 6/7/15 | 1321 | 1322 | 1322 | 1322 | — |
| Total Time | | | | | TRIP BLANK |
| End Pressure | -5 | -3.5 | -6.5 | -6 | -29.5 |
| NIST Gauge S/N | CP150104 | → | | | → |

MET Station on Site?: Y / N

80° degrees inside unit when sampling began. End temp 88°.
All windows closed, ventilation turned off, exhaust fans off.