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9:47 am, Jul 10, 2012

Alameda County
Environmental Health

July 9, 2012

ACHCSA-EHS
1131 Harbor Bay Parkway, Suite 250
Alameda, CA. 94502-6577

Re: Soil Gas Sampling and Analysis, Results Interpretation, and Technical Report
969 San Pablo Avenue, Albany, CA. 94706
ProTech Project # 501-OH11

To Whom It May Concern:

Attached is the Technical Report and Results Interpretation for Soil Gas Sampling and Analysis at 969 San Pablo Avenue, Albany, California ACEH #RO0000119 / Global ID # T0600101674.

This report was prepared by ProTech Consulting & Engineering to evaluate this site as required by ACHCSA-EHS. Kelly-Moore Paint Company is aware of the content of this report. If you have questions, I can be reached at my office telephone at (650)610-4314

Sincerely,

Robert Stetson
Director of Risk Management

1 Attachment: Soil Gas Sampling and Analysis, Results Interpretation, and Technical Report

Kelly-Moore Paint Company, Inc.
987 Commercial St.
San Carlos, CA. 94070
rstetson@kellymoore.com

ProTech

1208 MAIN STREET, REDWOOD CITY, CA 94063
TELE: 650.569.4020 / FAX: 650.569.4023

SOIL GAS SAMPLING AND ANALYSIS, RESULTS INTERPRETATION, AND TECHNICAL REPORTING

at

969 SAN PABLO ROAD, ALBANY, CALIFORNIA

prepared for

MR. ROBERT STETSON
KELLY MOORE PAINT COMPANY
987 COMMERCIAL, SAN CARLOS, CA 94070

9 JULY 2012

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prepared by

PROTECH CONSULTING & ENGINEERING
1208 MAIN STREET
REDWOOD CITY, CA 94063
PROTECH@TCG-INTERNATIONAL.COM

9 JULY 2012

DR. C. HUGH THOMPSON, PE
PROFESSIONAL ENGINEER
CAL-PE #C35856

SHERWOOD LOVEJOY, JR.,
ENVIRONMENTAL ASSESSOR
CONSULTING HYDROGEOLOGIST

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DISTRIBUTION

MR. ROBERT STETSON - CLIENT
KELLY MOORE PAINT COMPANY
rstetson@kellymoore.com

MARK DETTERMEN – CASE OFFICER
ALAMEDA COUNTY ENVIRONMENTAL HEALTH
mark.dettermen@acgov.org

GeoTracker

EXECUTIVE SUMMARY

The soil gas sampling was performed due to a previous release from a former waste oil underground storage tank on the site that was removed prior to Kelly Moore ownership. This report may be considered documentation of the current phase in the on-going site investigation and assessment that has been underway since the late 1980's. The work site is located at 969 San Pablo Road, in Albany (Figure 1).

At the request of Alameda County Environmental Health (ACEH) we prepared a Workplan for the work and negotiated with the ACEH on the final scope. We attempted to collect eight (8) Soil-Gas Vapor Survey (SGVS) samples: six (6) outside the building in the vicinity of monitor wells and the underground utilities and two (2) inside the building (under-floor slab) in the northwest corner (Figures 2 and 3). Seven (7) of the eight (8) vapor samples were collected. Sample S-5, outside the building (Figure 3), was not collected because the canister failed to draw vapor and the vacuum in the canister remained essentially at the same level as delivered by the laboratory.

Seven (7) out of eight (8) SGVS samples were collected during this phase of work. Figure 3 illustrates the SGVS point locations superimposed upon an aerial photo of the site with dimensions provided as related to the building. Outside, SGVS S-5 was allowed to run for three hours and the regulator indicated that no vapor was drawn into the canister.

The SGVS samples were collected from eight SGVS points that were constructed according to the *Draft Advisory from the California Environmental Protection Agency* (CEPA) [1] and Final Guidance for the *Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)*[2]. The depth of SGVS points outside the building was 5 fbg and 18 ibg (concrete slab surface) inside the building.

The following observations were made:

- Sample locations were selected to characterize the impacted portions of the site and to meet the directive of ACEH.
- On 11 May 2011 we collected 5 SGVS samples (S-1 through S-4, and S-6) from outside the building at a depth of 5 fbg and 2 under-floor slab SGVS samples (S-7 and S-8) from inside the building at a depth of 18 ibg (see Figure 3 for SGVS locations).
- We were unable to collect sample S-5 due to failure of the Summa Canister to collect soil vapor[3].

[1] March 2010, Draft Advisory–Active Soil Gas Investigation, California Environmental Protection Agency (CEPA).
[2] October 2011, Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance), Department of Toxic Substances Control, California Environmental Protection Agency.
[3] This SGVS point demonstrates the integrity of sampling train from the vapor point to the vacuum canister, via the flow regulator.

- Analytical results for the SGVS indicated that none of the analytes were detected above their respective rESLs.
- Analytical results also indicated that there was IPA (2-Propanol) breakthrough found in samples S-1, S-2, and S-4, but was not detected in S-3, S-6, S-7, and S-8.
- Analytical results also indicated that there was elevated [CO_2] found in samples S-3, S-4, and S-6, and corresponding reduced [O_2].

The following conclusions are drawn from the results:

- None of the analytes were detected above their respective rESLs.
- Breakthrough of IPA occurred in S-1, S-2, and S-4:
  - SGVS S-1 and S-4 breakthrough of IPA during short sampling times could be indicative of short-circuiting in subsurface through permeable layers that extend the radius of influence to the nearby monitor wells (MW-2, MW-6, or MW-4) or utilities.
  - The long sampling time of SGVS S-2 may be indicative of leakage in the water trap (testing has shown some breakthrough at long sampling times) or preferential flow of vapor through more permeable layers in subsurface extending radius of influence to the nearby wells (MW-3 or MW-6).
- No correlation was found between the amount of time required to collect the sample and the IPA tracer compound (2-Propanol) found in the sample results.
- The SGVS points outside were removed after sampling and grouted back to the surface.
- The elevated [CO_2] indicates anaerobic bioremediation activity in the impacted area showing that natural conditions are dealing with the Tetrachloroethene (PCE) and its related compounds and breakdown products.

Due to the fact that none of the analytes were detected above their respective rESL, we recommend:

1. Review of results, discussion with client,
2. Preparation of a Technical Report documenting work performed and interpretation of results, and
3. Inclusion of this data into the Site Conceptual Model (SCM) that we will put together now.

1.0 INTRODUCTION

We have prepared this Report for the site located in Albany, California. The Scope-of-Work (SOW) was determined by requirements of the Alameda County Environmental Health (ACEH) and conversations with you. The soil gas sampling was performed due to a previous release from a former (before Kelly Moore ownership) waste oil underground storage tank on the site that has since been removed. This report may be considered documentation of the current phase in the on-going site investigation and assessment that has been underway since the late 1980's. The work site is located at 969 San Pablo Road, in Albany (Figure 1).

ACEH expressed concern about the completion of a Site Conceptual Model (SCM). A Soil Gas Vapor Survey (SVGS) was a missing component of an SCM. At the request of ACEH we prepared a Workplan for the work and negotiated with the ACEH on the final scope. We attempted to collect eight (8) SGVS samples: six (6) outside the building in the vicinity of monitor wells and the underground utilities and two (2) inside the building (under-floor slab) in the northwest corner (Figures 2 and 3). Seven (7) of the eight (8) vapor samples were collected. Sample S-5, outside the building (Figure 3), was not collected because the canister failed to draw vapor and the vacuum in the canister remained at the level delivered by the laboratory.

The tasks performed are described below, results of sampling and analysis follow, are tabulated in Table 1, and illustrated in Figures 4 through 6. These Figures superimpose pollutant isopeths upon aerial photos of the site.

2.0 SCOPE-OF-WORK

After our teleconferences, site reconnaissance, the following Tasks were completed to achieve the overall goals of the project as established by the ACEH. These tasks included:

1. Workplan preparation and submittal to ACEH, on behalf of our client, for review, comment, and approval,
2. Collection of Soil-Gas Vapor Survey (SGVS) samples, using a two-man power-auger setup, at six (6) locations outside the building at 5 feet below grade (fbg), and two (2) locations inside the building at 18 inches below grade (ibg).
3. Analyze the SGVS samples for:
    a. Volatile Organic Compounds (VOCs), by EPA Method TO-15 with IPA,
    b. Fixed Gases in Air, by Method ASTM-1946.
4. Review the analytical results, discuss results with client, and prepare a Technical Report that documents:
    a. The Sampling and Analysis,
    b. The Interpretations, and
    c. Makes observations, draws conclusions, and offers recommendations for dealing with the results, including completing a SCM.

2.1 WORKPLAN PREPARATION

We submitted the original Workplan to the client for their approval and then submitted the plan to the ACEH (on our client's behalf) for review, comment, and approval (6 SGVS points in parking lot). The ACEH had comments requesting SGVS from locations inside the building and expanding the analysis to include fixed gases in air. We prepared an Addendum (two under-slab SGVS points inside the building and fixed gas analysis) and submitted it to ACEH, again on behalf of our client, for review and approval. This final SOW was approved and the field and laboratory tasks were scheduled and have been performed. This document represents the Technical Report of the work done under that SOW.

2.2 SAMPLE COLLECTION

Seven (7) out of eight (8) SGVS samples were collected during this phase of work. Figure 3 illustrates the SGVS point locations superimposed upon an aerial photo of the site with dimensions provided as related to the building. Outside, SGVS S-5 was not collected because the canister failed to draw soil vapor and the vacuum canister was returned to the laboratory with essentially the same vacuum as provided to us. We allowed the sample to run for three hours and the regulator indicated that no vapor was drawn into the canister. It is possible that the tip was damaged during installation or the canister and/or regulator was faulty. We noted that a

correlation between the time it took to collect the samples and the amount of 2-Propanol[4] detected in the samples did not exist. Plate 1 shows the cross section constructions used of the two Soil-Gas Vapor Points (SGVPs).

2.2.1 SOIL-GAS VAPOR SAMPLING

On 11 May 2012 Soil-Gas Vapor Survey (SGVS) samples were collected from 5 locations outside the building and 2 inside the building (see Figures 2 and 3 for SGVS point locations). SGVS sample locations were determined to meet the direction of Mark Dettermen of the ACEH.

The SGVS sample were collected from eight SGVS points that were constructed according to the *Draft Advisory from the California Environmental Protection Agency* (CEPA) [5] and Final Guidance for the *Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance)*[6]. The depth of SGVS points outside the building was 5 fbg and 18 ibg (concrete slab surface) inside the building.

The outside SGVS points S-1, S-2, S-3, S-4, and S-6 were constructed using the AMS Drive-Point System by drilling through the concrete slab parking lot with a concrete bit, augering a 3-inch hole down to 3 fbg, and then driving a sacrificial sampling point with tubing attached to five (5) fbg. Two (2) feet of sand was placed above the retractable vapor point tip and screen separated by a Fluoropolymer Umbrella. A bentonite seal was placed above the sand (from ~ 3 fbg through the top of the concrete slab) [see Plate 1] using conventional hydration techniques by pouring bentonite clay chips into the boring hole, adding water and allowing sufficient time for hydration of the bentonite to seal the annular space. Typical times required for full bentonite hydration and sealing around well stems or casings is about 2 hours with a preference being overnight. The bentonite seal was allowed to set overnight before sampling. After sampling, the tubing was removed from the vapor point and the hole was filled with neat cement. Neat cement was also placed to the top of the concrete slab after the hole was filled.

The SGVS point S-5 was constructed similar to above, but without a concrete slab to drill through, because the SGVS point was located in a planter area. We were unable to collect a sample from this SGVS point because the Summa canister failed to draw soil vapor and the vacuum remained essentially unchanged.

The under-slab SGVS points S-7 and S-8 were constructed inside by drilling through the floor slab with a concrete bit, augering a 1-inch diameter hole down to 1.5 fbg (18 inches below grade), and then placing a Gas Vapor Probe set-up (Plate 1) into the hole. Sand was placed from the bottom of the hole to 13 ibg covering the 3-inch double woven 0.15 mm Gas Vapor Probe Screen. A 1-inch rubber shaft plug was placed in the drilled hole above the sand and bentonite

[4] 2-Propanol is also known as Isopropyl Alcohol (IPA), which is the leak detection compound, used for this work.

[5] March 2010, Draft Advisory–Active Soil Gas Investigation, California Environmental Protection Agency (CEPA).

[6] October 2011, Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance), Department of Toxic Substances Control, California Environmental Protection Agency.

was placed above this plug from 12 ibg to 1.5 ibg. Another 1-inch rubber shaft plug was placed from 1.5 ibg to the middle of the concrete slab (0.5 ibg). The bentonite seal was allowed to set for 4 hours before sampling. A stainless steel security threaded cap was placed to the top of the under-slab SGVS points after sampling was completed so they could be resampled in the future.

To minimize the opportunity for leakage, a very simple tubing connection was used. New Teflon tubing was attached to the barbs of the sacrificial vapor point and directly connected to the vacuum canister via a laboratory-provided and calibrated vacuum flow regulator. Before summa canisters were attached to the SGVS points and soil-gas vapor sampled, the vapor in the sample probe and attaching tubes was purged. A leak test was also performed prior to the SGVS sampling. The leak test compound, isopropyl alcohol (IPA) [2-Propanol], was applied to towels that were wrapped around all points where leaks could occur[7]. This compound is not part of the list (TO-15) being analyzed for contamination, and the laboratory added this analyte to the list for analysis. For each set-up there were five connection points (either end of the water trap, either end of the regulator, and one for the Summa canister) aboveground and one connection point (sacrificial vapor point to tubing) underground.

The laboratory decontaminated one-liter Summa canisters, used to collect the SGVS samples, and the laboratory calibrated the regulators. According to guidance for temporary points, three tubing and sample point purge volumes of soil vapor were removed from the SGVS point prior to sampling[8]. Following DTSC protocol, SGVS samples were collected at a flow rate no greater than 150 milliliters/minute (ml/min). If the formation being sampled let vapor flow at 150 ml/min it would take 6.667 minutes to fill a 1-liter Summa canister. As shown in the field data sheets, none of the canisters filled in less than this.

[7] Liquid tracer compounds are applied to towels or clean rags and placed around all connections in the sampling train in order to evaluate potential leaks of ambient air into the sampling train. New, unused, sealed, Teflon tubing is used to directly connect the vapor point sampling tip to the vacuum canister (equipped with a laboratory supplied and calibrated regulator) after putting a water drop-out pot in the sampling train before the flow regulator (Plate 1). The leak check compound selected is not a suspected site-specific contaminant. Seal integrity is confirmed by analyzing subsequent soil gas samples for the tracer compound. Leak check compounds (i.e., liquid tracer compounds) are included in the method analyte list. The laboratory reports should quantify and annotate all detections of the leak check compound at the reporting limit of the target analytes. If the concentration of the leak check compound is greater than or equal to ten times the reporting limit for the target analyte(s), then corrective action is necessary. If leaks check compound (i.e., liquid tracer compounds) is detected in the sample, the cause of the leak is determined, evaluated, and corrected through retesting. Leak check compound concentrations detected in the soil gas samples are in the laboratory report and are discussed in the site characterization report.

[8] As specified in the Draft Guidance, "A default of three (3) purge volumes should be extracted prior to sampling in the following cases: 1) If VOCs are not detected in any of the step purge tests, 2) If a SUMMA¨ canister is used for sampling soil gas, 3) For shallow soil gas samples (collected at less than five feet bgs). Include the purge test data in the report to support the purge volume selection. The data set should include the purge volume test as well as the flow rate, vacuum exerted on the formation, and duration of each purge step.

2.3 SOIL GAS VAPOR SAMPLE ANALYTICAL RESULTS

The Summa canister samples (with minimum vacuum remaining) were delivered to Test America (TA), a California-certified analytical laboratory. The SGVS samples were shipped to TA located in Los Angeles. The SGVS samples were analyzed by TO-15 for VOCs in soil vapor and the leak test compound, IPA (2-Propanol) plus Fixed Gases in soil vapor by method ASTM-1946. The holding times for TO-15 are 14 days. The method detection limits and the reporting limits are determined by the method(s) used and the regulatory requirements.

IPA, reported as 2-Propanol, in the Analytical Results was found three (3) of the seven (7) collected samples. There was breakthrough in SGVS points S-1, S-2, and S-4, but not in S-3, S-6, S-7 or S-8. While important to note, the presence of IPA in these three (3) samples should not cause concern because the target compounds that were present in the soil vapor were well below their ESLs[9] in all cases. Figure 7 shows the fixed gases of concern and their relationship.

2.3.1 OUTSIDE SGVS SAMPLES

2.3.1.1 ANALYTICAL RESULTS FOR SGVS S-1

- The TO-15 analysis indicated that:
  - Acetone was detected at 430 micrograms per cubic meter (ug/m^3) with a Reporting Limit (RL) of 170 ug/m^3
  - 4-Ethyltoulene was detected at 75 ug/m^3 with a RL of 140 ug/m^3,
  - Toluene was detected at 200 ug/ m^3 with a RL of 110 ug/m^3
  - 1,2,4-Trimethylbenzene was detected at 70 ug/ m^3 with an RL of 170 ug/m^3,
  - m,p-Xylene was detected at 250 ug/ m^3 with an RL of 120 ug/m^3,
  - o-Xylene was detected at 75 ug/ m^3 with an RL of 120 ug/m^3, and
  - 2-Propanol was detected at 4300 ug/ m^3 with an RL of 340 ug/m^3,
  - All other Analytes were ND with RLs ranging from 58 ug/m^3 to 440 ug/m^3
- The D-1946 analysis indicated that:
  - Carbon dioxide was detected at 0.51 % volume (%v/v) with an RL of 0.021 %v/v,
  - Methane was detected at 0.00023 % v/v with an RL of 0.00042 %v/v,
  - Nitrogen was detected 79 % v/v with an RL of 2.1 % v/v, and
  - Oxygen was detected at 21 %v/v with an RL of 0.42 %v/v.

2.3.1.2 ANALYTICAL RESULTS FOR SGVS S-2

- The TO-15 analysis indicated that:
  - Acetone was detected at 69 ug/ m^3 with RL of 24 ug/m^3,
  - Benzene was detected at 12 ug/m^3 with a RL of 13 ug/m^3,
  - Bromomethane was detected at 14 ug/m^3 with a RL of 16 ug/m^3,
  - Ethylbenzene was detected at 33 ug/m^3 with an RL of 17 ug/m^3,
  - 4-Ethyltoulene was detected at 37 ug/m^3 with a RL of 20 ug/m^3,
  - Methylene chloride was detected at 18 ug/m^3 with an RL of 14 ug/m^3,
  - Toluene was detected at 150 ug/m^3 with a RL of 15 ug/m^3,
  - 1,2,4-Trimethylbenzene was detected at 28 ug/m^3 with an RL of 25 ug/m^3,

[9] Table E-2: *Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater* (November 2007, updated May 2008), San Francisco Bay Regional Water Quality Control Board, California EPA, http://www.waterboards.ca.gov/sanfranciscobay/esl.shtm

- m,p-Xylene was detected at 140 ug/m^3 with an RL of 17 ug/m^3,
- o-Xylene was detected at 39 ug/m^3 with an RL of 17 ug/m^3, and
- 2-Propanol was detected at 300 ug/m^3 with an RL of 49 ug/m^3.
- All other Analytes were ND with RLs ranging from 8.3 ug/m^3 to 52 ug/m^3.

- The D-1946 analysis indicated that:
  - Carbon dioxide was detected at 0.054 %v/v with an RL of 0.022 %v/v,
  - Methane was detected at 0.00023 % v/v with an RL of 0.00044 %v/v,
  - Nitrogen was detected 77 % v/v with an RL of 2.2 % v/v, and
  - Oxygen was detected at 21 %v/v with an RL of 0.44 %v/v.

2.3.1.3 Analytical Results For SGVS S-3

- The TO-15 analysis indicated that:
  - Acetone was detected at 19 ug/m^3 with a RL of 27 ug/m^3,
  - Bromomethane was detected at 9.5 ug/m^3 with a RL of 17 ug/m^3,
  - Chloroform was detected at 14 ug/m^3 with a RL of 22 ug/m^3,
  - Ethylbenzene was detected at 68 ug/m^3 with a RL of 19 ug/m^3,
  - Methylene chloride was detected at 11 ug/m^3 with an RL of 16 ug/m^3,
  - Styrene was detected at 370 ug/m^3 with a RL of 19 ug/m^3,
  - Toluene was detected at 31 ug/m^3 with a RL of 17 ug/m^3,
  - m,p-Xylene was detected at 21 ug/m^3 with an RL of 19 ug/m^3, and
  - o-Xylene was detected at 15 ug/m^3 with an RL of 19 ug/m^3.
  - All other Analytes were ND with RLs ranging from 9.3 ug/m^3 to 70 ug/m^3.
- The D-1946 analysis indicated that:
  - Carbon dioxide was detected at 3.9 % %v/v with an RL of 0.020 %v/v,
  - Nitrogen was detected 81 % v/v with an RL of 2.0 % v/v, and
  - Oxygen was detected at 15 %v/v with an RL of 0.40 %v/v.

2.3.1.4 Analytical Results For SGVS S-4

- The TO-15 analysis indicated that:
  - Acetone was detected at 150 ug/m^3 with a RL of 27 ug/m^3,
  - Bromomethane was detected at 19 ug/m^3 with a RL of 17 ug/m^3,
  - Carbon disulfide was detected at 15 ug/m^3 with a RL of 35 ug/m^3,
  - Chloroform was detected at 65 ug/m^3 with a RL of 22 ug/m^3,
  - Ethylbenzene was detected at 110 ug/m^3 with an RL of 19 ug/m^3,
  - 4-Ethyltoulene was detected at 15 ug/m^3 with a RL of 22 ug/m^3,
  - Methylene chloride was detected at 13 ug/m^3 with a RL of 16 ug/m^3,
  - Styrene was detected at 610 ug/m^3 with an RL of 19 ug/m^3,
  - Toluene was detected at 0.036 ug/m^3 with a RL of 17 ug/m^3,
  - m,p-Xylene was detected at 31 ug/m^3 with an RL of 19 ug/m^3, and
  - 2-Propanol was detected at 590 ug/m3 with an RL of 55 ug/m^3.
  - All other Analytes were ND with RLs ranging from 4.6 ug/m^3 to 23 ug/m^3.
- The D-1946 analysis indicated that:
  - Carbon dioxide was detected at 8.3 %v/v with an RL of 0.019 %v/v,
  - Nitrogen was detected 82 % v/v with an RL of 1.9 % v/v, and
  - Oxygen was detected at 9.5 %v/v with an RL of 0.38 %v/v.

2.3.1.5 Analytical Results For SGVS S-5

- Not Analyzed (unable to collect sample)

2.3.1.6 Analytical Results For SGVS S-6

- The TO-15 analysis indicated that:
  - Acetone was detected at 61 ug/m^3 with a RL of 24 ug/m^3,
  - Benzene was detected at 13 ug/m^3 with a RL of 13 ug/m^3,
  - Bromomethane was detected at 9.7 ug/m^3 with a RL of 16 ug/m^3,
  - Chloroform was detected at 72 ug/m^3 with a RL of 20 ug/m^3,
  - Ethylbenzene was detected at 85 ug/m^3 with a RL of 18 ug/m^3,
  - 4-Ethyltoulene was detected at 140 ug/m^3 with a RL of 20 ug/m^3,
  - Tetrachloroethene was detected at 53 ug/m^3 with a RL of 28 ug/m^3,
  - Toluene was detected at 270 ug/m^3 with a RL of 15 ug/m^3,
  - 1,2,4-Trimethylbenzene was detected at 120 ug/m^3 with an RL of 25 ug/m^3,
  - 1,3,5-Trimethylbenzene was detected at 33 ug/m^3 with an RL of 20 ug/m^3,
  - m,p-Xylene was detected at 380 ug/m^3 with an RL of 18 ug/m^3, and
  - o-Xylene was detected at 120 ug/m^3 with an RL of 18 ug/m^3.
  - All other Analytes were ND with RLs ranging from 8.4 ug/m^3 to 64 ug/m^3.
- The D-1946 analysis indicated that:
  - Carbon dioxide was detected at 2.9 %v/v with an RL of 0.021 %v/v,
  - Nitrogen was detected 79 % v/v with an RL of 2.1 % v/v, and
  - Oxygen was detected at 19 %v/v with an RL of 0.41 %v/v.

2.3.2 Inside, Under-Slab SGVS Samples

2.3.2.1 Analytical Results For SGVS S-7

- The TO-15 analysis indicated that:
  - Acetone was detected at 51 ug/m^3 with a RL of 26 ug/m^3,
  - Benzene was detected at 7.8 ug/m^3 with a RL of 14 ug/m^3,
  - Bromomethane was detected at 14 ug/m^3 with a RL of 17 ug/m^3,
  - Ethylbenzene was detected at 56 ug/m^3 with a RL of 19 ug/m^3,
  - 4-Ethyltoulene was detected at 110 ug/m^3 with a RL of 21 ug/m^3,
  - Toluene was detected at 160 ug/m^3 with a RL of 16 ug/m^3,
  - 1,2,4-Trimethylbenzene was detected at 97 ug/m^3 with an RL of 27 ug/m^3,
  - 1,3,5-Trimethylbenzene was detected at 26 ug/m^3 with an RL of 21 ug/m^3,
  - m,p-Xylene was detected at 270 ug/m^3 with an RL of 19 ug/m^3, and
  - o-Xylene was detected at 84 ug/m^3 with an RL of 19 ug/m^3.
  - All other Analytes were ND with RLs ranging from 9 ug/m^3 to 49 ug/m^3.
- The D-1946 analysis indicated that:
  - Carbon dioxide was detected at 0.18 % %v/v with an RL of 0.021 %v/v,
  - Nitrogen was detected 79 % v/v with an RL of 2.1 % v/v, and
  - Oxygen was detected at 22 %v/v with an RL of 0.42 %v/v.

2.3.2.2 Analytical results for SGVS S-8

- The TO-15 analysis indicated that:
  - Acetone was detected at 55 ug/m^3 with a RL of 24 ug/m^3,
  - Benzene was detected at 14 ug/m^3 with a RL of 13 ug/m^3,
  - Bromomethane was detected at 11 ug/m^3 with a RL of 16 ug/m^3,
  - Chloroform was detected at 22 ug/m^3 with a RL of 20 ug/m^3,
  - Ethylbenzene was detected at 82 ug/m^3 with a RL of 018 ug/m^3,
  - 4-Ethyltoulene was detected at 140 ug/m^3 with a RL of 20 ug/m^3,
  - Tetrachloroethene was detected at 28 ug/m^3 with a RL of 28 ug/m^3,
  - Toluene was detected at 250 ug/m^3 with a RL of 16 ug/m^3,

- 1,2,4-Trimethylbenzene was detected at 120 ug/m^3 with an RL of 25 ug/m^3,
- 1,3,5-Trimethylbenzene was detected at 32 ug/m^3 with a RL of 20 ug/m^3,
- m,p-Xylene was detected at 370 ug/m^3 with an RL of 18 ug/m^3, and
- o-Xylene was detected at 120 ug/m^3 with an RL of 18 ug/m^3.
- All other Analytes were ND with RLs ranging from 8.5 ug/m^3 to 53 ug/m^3.

- The D-1946 analysis indicated that:
  - Carbon dioxide was detected at 0.20 %v/v with an RL of 0.020 %v/v,
  - Methane was detected at 0.00022 % v/v with an RL of 0.00040 %v/v,
  - Nitrogen was detected 78 % v/v with an RL of 2.0 % v/v, and
  - Oxygen was detected at 21 %v/v with an RL of 0.40 %v/v.

3.0 OBSERVATIONS, CONCLUSIONS, RECOMMENDATIONS

3.1 OBSERVATIONS

The following observations were made:

- Sample locations were selected to characterize the impacted portions of the site and to meet the directive of ACEH.
- On 11 May 2011 we collected 5 SGVS samples (S-1 through S-4, and S-6) from outside the building at a depth of 5 fbg and 2 under-floor slab SGVS samples (S-7 and S-8) from inside the building at a depth of 18 ibg (see Figure 3 for SGVS locations).
- We were unable to collect sample S-5 due to failure of the Summa Canister to collect soil vapor[10].
- Analytical results for the SGVS indicated that none of the analytes were detected above their respective rESLs.
- Analytical results also indicated that there was IPA (2-Propanol) breakthrough found in samples S-1, S-2, and S-4, but was not detected in S-3, S-6, S-7, and S-8.
- Analytical results also indicated that there was elevated [CO_2] found in samples S-3, S-4, and S-6, and corresponding reduced [O_2].

3.2 CONCLUSIONS

The following conclusions are drawn from the results:

- None of the analytes were detected above their respective rESLs.
- Breakthrough of IPA occurred in S-1, S-2, and S-4:
  - SGVS S-1 and S-4 breakthrough of IPA during short sampling times could be indicative of short-circuiting in subsurface through permeable layers that extend the radius of influence to the nearby monitor wells (MW-2, MW-6, or MW-4) or utilities.
  - The long sampling time of SGVS S-2 may be indicative of leakage in the water trap (testing has shown some breakthrough at long sampling times) or preferential flow of vapor through more permeable layers in subsurface extending radius of influence to the nearby wells (MW-3 or MW-6).
- No correlation was found between the amount of time required to collect the sample and the tracer compound (2-Propanol) found in the sample results.
- The SGVS points outside were removed after sampling and grouted back to the surface.

[10] This SGVS point demonstrates the integrity of sampling train from the vapor point to the vacuum canister, via the flow regulator.

- The elevated [CO_2] indicates anaerobic bioremediation activity in the impacted area showing that natural conditions are dealing with the Tetrachloroethene (PCE) and its related compounds and breakdown products.

In an effort to determine if there was a correlation between sampling time and IPA breakthrough, we, compared the parameters (see table below). There appears to be no correlation between these two parameters.

Table 1 - Sample Collection Time Compared to 2-Propanol Detected

Sample	Time Required to collect Sample (minutes)	2-Propanol (IPA) Detected (ug/m^3)
S-1	8	4300
S-2	163	300
S-3	8	ND
S-4	10	590
S-5	Not Sampled after three hours	Not Sampled
S-6	8	ND
S-7	6	ND
S-8	6	ND

Note: The cause of the 2-propanol break through in samples S-1, S-2, and S-4 has been linked to long sampling times (S-2) or preferential flow to expand radius of influence (S-1 and S-4) during the sampling event.

3.3 RECOMMENDATIONS

Soil Vapor sampling is a 3D event, the vacuum generated radiates out in all directions to pull in vapors in a 3D pattern. The radius of influence (ROI) is generally not known and subsurface geology does impact the shape and extent of this radius. Since monitor wells are not gas-tight installations, they can be the source of leakage of surface air into the vapor stream. It has been suggested[11] that 3X to 5X the depth of the SGVS point should be the minimum distance to structures that could influence readings. In this case that would be 15 feet to 25 feet.

Due to the fact that none of the analytes were detected above their respective rESL, we recommend:

1. Review of results, discussion with client,
2. Preparation of a Technical Report documenting work performed and interpretation of results, and
3. Inclusion of this data into the Site Conceptual Model (SCM) that we will put together now.

[11] ITRC Vapor Intrusion Conference, 2009

4.0 REFERENCES

Draft Advisory – *Active Soil Gas Investigation*, California Environmental Protection Agency (CEPA), March 2010.

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

Interstate Technology & Regulatory Council (ITRC), 2009, Vapor Intrusion Conference & Class, Sacramento, CA.

ProTech, 2011, *Workplan for Soil Gas Sampling And Analysis, Results Interpretation, And Technical Reporting* at 969 San Pablo Avenue, Albany, California, ACEH #RO0000119 / Global ID # T0600101674, 10 October 2011.

Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (November 2007, updated May 2008), San Francisco Bay Regional Water Quality Control Board, California EPA, http://www.waterboards.ca.gov/sanfranciscobay/esl.shtm

5.0 LIMITATION

This Report has been prepared by the staff of ProTech under the supervision of our registered engineer whose stamp and signature appear above. ProTech relied upon others, as referenced, to provide background and information used in this Document.

This Report has been prepared by ProTech for the exclusive use of Kelly Moore Paint (client) and not for use by any other party. Any use by a third party of any of the information contained in this Document shall be at their own risk and shall constitute a release and an agreement to defend and indemnify ProTech from and against any and all liability in connection therewith whether arising out of ProTech's negligence or otherwise.

All interpretations, conclusions, and recommendations are based solely on information gathered during this investigative stage and on no other unspecified information. This Document is prepared as a tool for the client to use in determining the condition of the site. This Document makes no certification, either implied or otherwise, that the site is free from pollution; it simply Documents the findings of any study. Soil sampling is so sample location specific that if pollutants are not found in a sample it does not universally suggest that there are none of these pollutants present at the site. Water sampling, while being less sample-location-specific than soil sampling, is still area-specific and if pollutants are not found in a sample it does not universally suggest that there are none of these pollutants present at the site.

The results and findings contained in this Document are based on certain information from sources outside the control of ProTech. While exercising all reasonable diligence in the acceptance and use of information provided, ProTech does not warrant or guarantee the accuracy of those information sources. The Document was developed specifically for this project (969 San Pablo Road, Albany, California) and should not be used for any other site.

TABLE

ProTech

Table 1- Soil Gas Vapor Sampling Results (6/4/12)
969 San Pablo Road, Albany, CA
Protech Job # 383-12

Soil Gas Vapor Sample ID #			S-1	S-2	S-3	S-4	S-6	S-7	S-8
Date Collected			5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12
Sample Depth			5 fbg	5 fbg	5fbg	5 fbg	5 fbg	1.5 fbg	1.5 fbg
Analyte									
	TE-2-rESL (ug/m3)	**TE-4-rESL (ug/m3)**	**EPA TO 15 - VOCs in Air (ug/m3)**						
Acetone	6.60E+05	3.30E+05	**430**	**69**	19 J,DX	**150**	**61**	**51**	**55**
Benzene	84	42	ND(89)	**12 J,DX**	**ND(14)**	**ND(14)**	**13**	**7.8 J,DX**	**14**
Benzyl chloride	NE	NE	ND(360)	ND(52)	ND(58)	ND(58)	ND(53)	ND(56)	ND(53)
Bromodichloromethane	140	69	ND(190)	ND(27)	ND(30)	ND(30)	ND(27)	ND(29)	ND(28)
Bromoform	NE	NE	ND(200)	ND(41)	ND(46)	ND(46)	ND(42)	ND(45)	ND(43)
Bromomethane	1000	520	ND(110)	**14 J,DX**	**9.5 J,DX**	**19**	**9.7 J,DX**	**14 J,DX**	**11 J,DX**
2-Butanone (MEK)	NE	NE	ND(210)	ND(29)	ND(33)	ND(33)	ND(30)	ND(32)	ND(30)
Carbon disulfide	NE	NE	ND(220)	ND(31)	ND(35)	15 J,DX	ND(32)	ND(34)	ND(32)
Carbon tetrachloride	19	9.4	ND(440)	ND(63) LQ	ND(70)	ND(70) LQ	ND(64) LQ	ND(69)	ND(65)
Chlorobenzene	2.10E+05	1.00E+05	ND(130)	ND(18)	ND(21)	ND(21)	ND(19)	ND(20)	ND(19)
Dibromochloromethane	NE	NE	ND(240)	ND(34)	ND(38)	ND(38)	ND(35)	ND(37)	ND(35)
Chloroethane	2.10E+04	1.00E+04	ND(74)	ND(11)	ND(12)	ND(12)	ND(11)	ND(12)	ND(11)
Chloroform	460	230	ND(140)	ND(20)	**14 J,DX**	**65**	**72**	ND(21)	**22**
Chloromethane	1.90E+04	9.40E+03	ND(58)	ND(8.3)	ND(9.3)	ND(9.3)	ND(8.4)	ND(9)	ND(8.5)
1,2-Dibromoethane (EDB)[1]	1900	940	ND(210)	ND(31)	ND(34)	ND(34)	ND(31)	ND(34)	ND(32)
1,2-Dichlorobenzene	4.20E+04	2.10E+04	ND(170)	ND(24)	ND(27)	ND(27)	ND(25)	ND(26)	ND(25)
1,3-Dichlorobenzene	2.20E+04	1.10E+04	ND(170)	ND(24)	ND(27)	ND(27)	ND(25)	ND(26)	ND(25)
1,4-Dichlorobenzene	220	110	ND(170)	ND(24)	ND(27)	ND(27)	ND(25)	ND(26)	ND(25)
Dichlorodifluoromethane	NE	NE	ND(140)	ND(20)	ND(22)	ND(22)	ND(20)	ND(22)	ND(20)
1,1-Dichloroethane	1500	760	ND(110)	ND(16)	ND(18)	ND(18)	ND(17)	ND(18)	ND(17)
1,2-Dichloroethane	94	47	ND(110)	ND(16)	ND(18)	ND(18)	ND(17)	ND(18)	ND(17)
1,1-Dichloroethene	4.20E+04	2.10E+04	ND(110)	ND(16)	ND(18)	ND(18)	ND(16)	ND(17)	ND(16)
cis-1,2-Dichloroethene	7300	3700	ND(110)	ND(16)	ND(18)	ND(18)	ND(16)	ND(17)	ND(16)
trans-1,2-Dichloroethene	1.50E+04	7.30E+03	ND(110)	ND(16)	ND(18)	ND(18)	ND(16)	ND(17)	ND(16)
1,2-Dichloropropane	240	120	ND(160)	ND(23)	ND(26)	ND(26)	ND(24)	ND(25)	ND(24)
cis-1,3-Dichloropropene	NE	NE	ND(160)	ND(23)	ND(25)	ND(25)	ND(23)	ND(25)	ND23)
trans-1,3-Dichloropropene	NE	NE	ND(320)	ND(45)	ND(51)	ND(51)	ND(46)	ND(49)	ND(47)
1,2-Dichloro-1,1,2,2-tetrafluoroehane	NE	NE	ND(200)	ND(28)	ND(31)	ND(31)	ND(29)	ND(30)	ND(29)
Ethylbenzene	980	490	ND(120)	**33**	**68**	**110**	**85**	**56**	**82**
4-Ethyltoluene	NE	NE	**75 J,DX**	**37**	ND(22)	**15 J,DX**	**140**	**110**	**140**
Hexachlorobutadiene	NE	NE	ND(300)	ND (43)	ND(48)	ND(48)	ND(44)	ND(46)	ND(44)
2 Hexanone	NE	NE	ND(290)	ND(41)	ND(46)	ND(46)	ND(42)	ND(45)	ND(42)
Methylene Chloride	5200	18	ND(97)	**18**	**11 J,DX**	**13 J,DX**	ND(14)	ND(15)	ND(14)
4-Methyl-2-pentanone (MIBK)	NE	NE	ND(290)	ND(41)	ND(46)	ND(46)	ND(42)	ND(45)	ND(42)
Styrene	1.90E+05	9.4E+04	ND(120)	ND(17)	**370**	**610**	ND(17)	ND(19)	ND(18)
1,1,2,2-Tetrachloroethane	42	21	ND(190)	ND(27)	ND(31)	ND(31)	ND(28)	ND(30)	ND(28)
Tetrachloroethene	410	210	ND(190)	ND(27)	ND(30)	ND(30)	**53**	ND(30)	**28**
Toluene	6.30E+04	3.10E+04	**200**	**150**	**31**	**36**	**270**	**160**	**250**
1,2,4-Trichlorobenzene	830	420	ND(260)	ND(37)	ND(42)	ND(42)	ND(38)	ND(40)	ND(38)

ProTech

Table 1- Soil Gas Vapor Sampling Results (6/4/12)
969 San Pablo Road, Albany, CA
Protech Job # 383-12

Soil Gas Vapor Sample ID #			S-1	S-2	S-3	S-4	S-6	S-7	S-8
Date Collected			5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12
Sample Depth			5 fbg	5 fbg	5fbg	5 fbg	5 fbg	1.5 fbg	1.5 fbg
Analyte									
1,1,1-Trichloroethane	4.60E+05	2.30E+05	ND(150)	ND(22)	ND(24)	ND(24)	ND(22)	ND(24)	ND(22)
1,1,2-Trichloroethane	150	76	ND(150)	ND(22)	ND(24)	ND(24)	ND(22)	ND(24)	ND(22)
Trichloroethene	1200	610	ND(150)	ND(21)	ND(24)	ND(24)	ND(22)	ND(23)	ND(22)
Trichlorofluoromethane	NE	NE	ND(160)	ND(22)	ND(25)	ND(25)	ND(23)	ND(24)	ND(23)
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND(210)	ND(31)	ND(34)	ND(34)	ND(31)	ND(33)	ND(32)
1,2,4-Trimethylbenzene	NE	NE	**70 J,DX**	**28**	ND(28)	ND(28)	**120**	**97**	**120**
1,3,5-Trimethylbenzene	NE	NE	ND(140)	ND(20)	ND(22)	ND(22)	**33**	**26**	**32**
Vinyl acetate	NE	NE	ND(250)	ND(35)	ND(39)	ND(39)	ND(36)	ND(38)	ND(36)
Vinyl chloride	31	16	ND(71)	ND(10)	ND(11)	ND(11)	ND(10)	ND(11)	ND(11)
m,p-Xylene	2.10E+04	1.00E+04	**250**	**140**	**21**	**31**	**380**	**270**	**370**
o-Xylene	2.10E+04	1.00E+04	**75 J,DX**	**39**	**15 J,DX**	ND(19)	**120**	**84**	**120**
2-Propanol	NE	NE	**4300**	**300**	ND(55)	**590**	ND(50)	ND(54)	ND(51)
Analytical Method D1946 - Fixed Gases in Air (%vol/vol)									
Carbon Dioxide			**0.51**	**0.054**	**3.9**	**8.3**	**2.9**	**0.18**	**0.2**
Methane			**0.00023 J,DX**	**0.00023 J,DX**	ND(0.00040)	ND(0.00038)	ND(0.00041)	ND(0.00041)	**0.00022 J,DX**
Nitrogen			**79**	**77**	**81**	**82**	**79**	**79**	**78**
Oxygen			**21**	**21**	**15**	**9.5**	**19**	**22**	**21**

Notes:

rESL = residential Screening Level (ug/m3)

Analytical Results in micrograms per cubic meter (ug/m3) for analytical method TO-15

Analytical Results in percent volume (%v/v) for analytical method D1946

fbg = feet below grade

ND = Non Detected (with Report Limit in parentheses)

Bold = Detected above Reporting Limit (RL)

Red Bold = Detected amount above residential Environmental Screening Level (rESL)

1 = EDB rESL is between 2.0E ug/m3 and 4.1 ug/m3 as a carcinogen and 940 ug/m3 and 1900 ug/m3 for a non- carcinogen. The highest reading is ND at 210 ug/m3 and the average is 58 ug/m3. There is no reason to believe this EDB is carcenoganic so the noncarcenogenic rESL range of 940 ug/m3 and 1900 ug/m3 is used.

J, DX = Estimated value; value < lowest standard (MQL), but >than MDL

LQ = LCS/LCSD recovery above method control limits

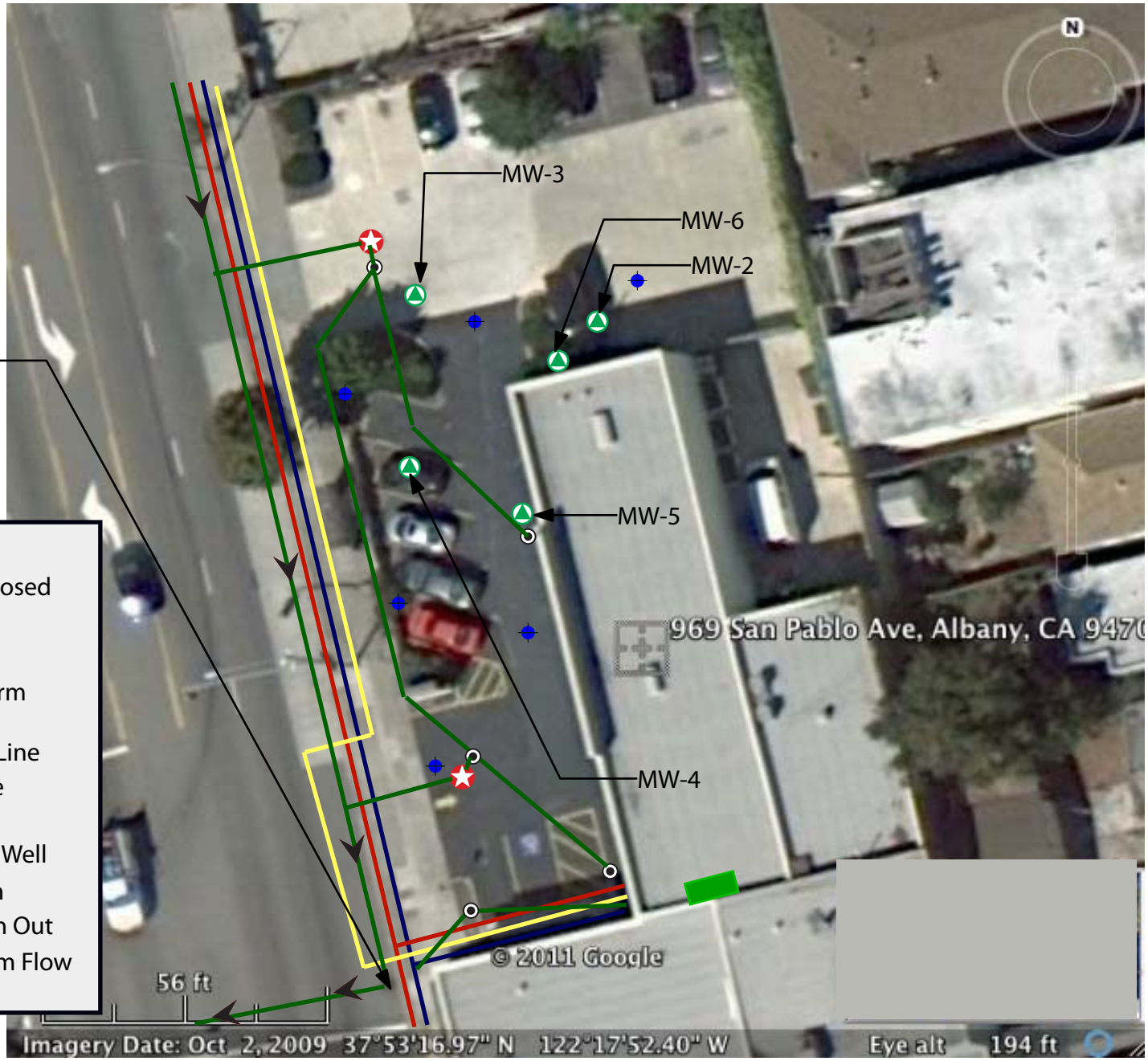
FIGURES

Site 12.73 mi

Site 3144 ft

Site 810 ft

ProTech Consulting & Engineering 1208 Main Street, Redwood City, CA 94063 Tele: 650.569.4020 / Fax: 650.569.4023	Job No. 120107 Date 21 May 2012 Drawn by RC Rev WL Apprvd WL
Site Location 969 San Pablo Avenue, Albany, CA For: Mr. Robert Stetson Kelly-Moore Paint Company 987 Commercial, San Carlos, CA 94070	Project N Figure 1



ProTech Consulting & Engineering
1208 Main Street, Redwood City, CA 94063
Tele: 650.569.4020 / Fax: 650.569.4023

Job No.	120107
Date	25 May 2012
Drawn by	RC
Rev	WL
Apprvd	WL

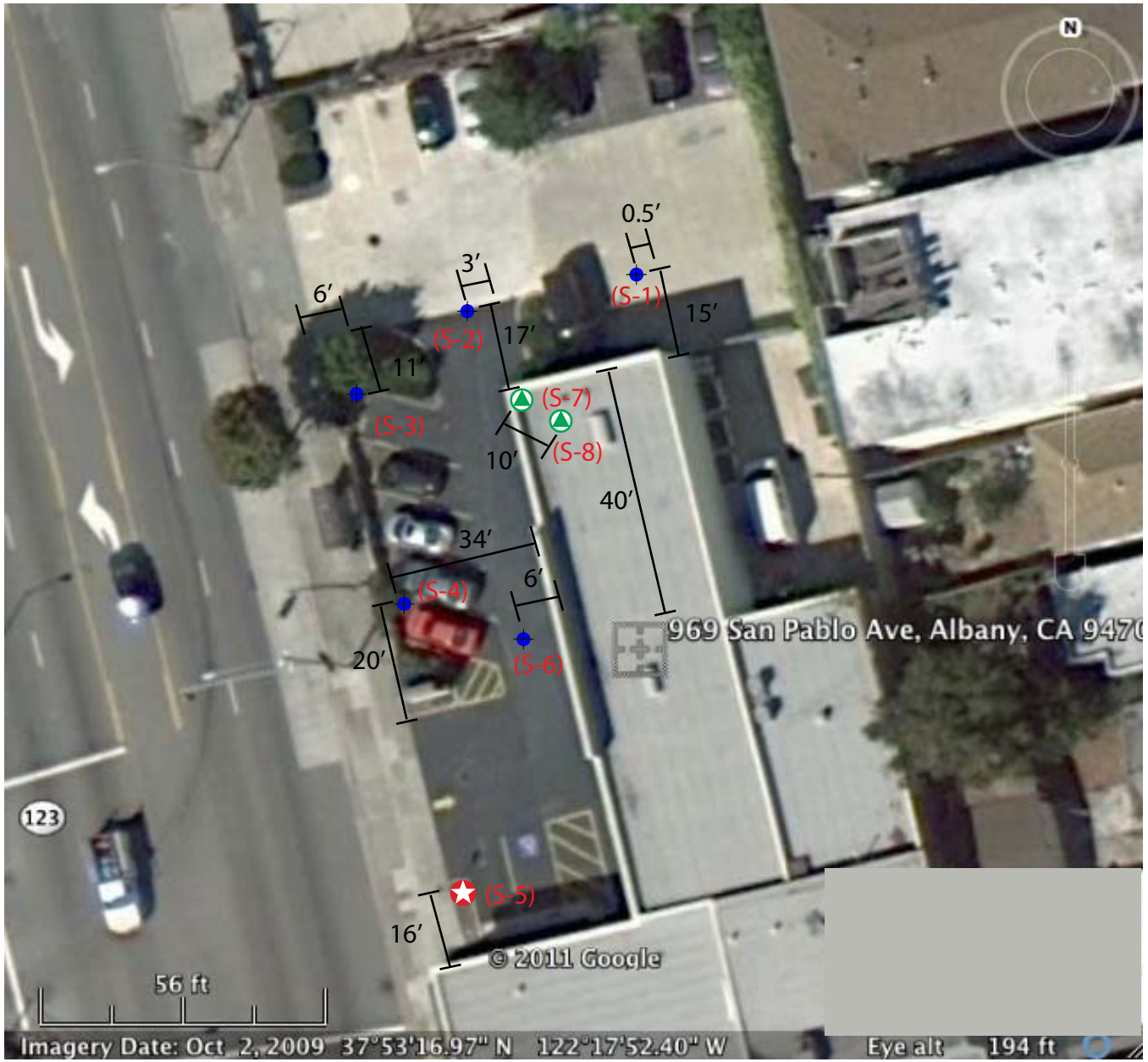
Project

Site layout w/ Utility Locations
969 San Pablo Avenue, Albany, CA
For: Mr. Robert Stetson
Kelly-Moore Paint Company
987 Commercial, San Carlos, CA 94070

N

Figure

2



(S-1) = Sample name

= SGVS outside Bldg

= SGVS inside Bldg

= SGVS Location sample not analyzed (canister unable to draw air)

ProTech Consulting & Engineering
1208 Main Street, Redwood City, CA 94063
Tele: 650.569.4020 / Fax: 650.569.4023

Job No.	383-OH12
Date	21 May 2012
Drawn by	RC
Rev	WL
Apprvd	WL

Project

Site Plan with SGVS Point Locations

969 San Pablo Avenue, Albany, CA

For: Mr. Robert Stetson

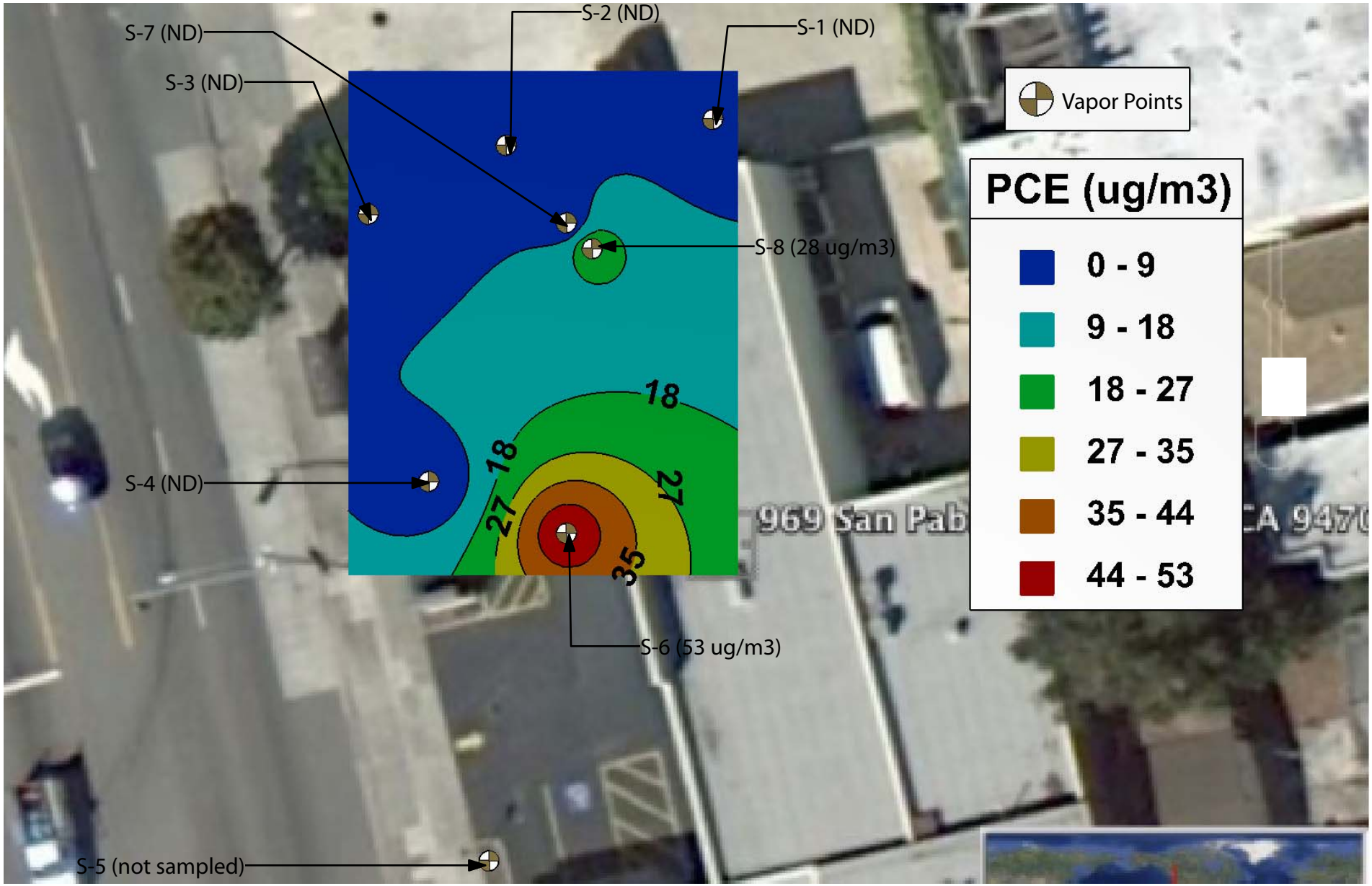
Kelly-Moore Paint Company

987 Commercial, San Carlos, CA 94070

N

Figure

3



ug/m3 = micrograms per cubic meter

residential Environmental Screening Level (rESL) for PCE = 410 ug/m3

Contours by Enviroinsite

ProTech Consulting & Engineering
1208 Main Street, Redwood City, CA 94063
Tele: 650.569.4020 / Fax: 650.569.4023

Job No.	383-OH12
Date	22 June 2012
Drawn by	RC
Rev	WL
Apprvd	WL

Project

Site Plan with PCE Contours

969 San Pablo Avenue, Albany, CA

For: Mr. Robert Stetson

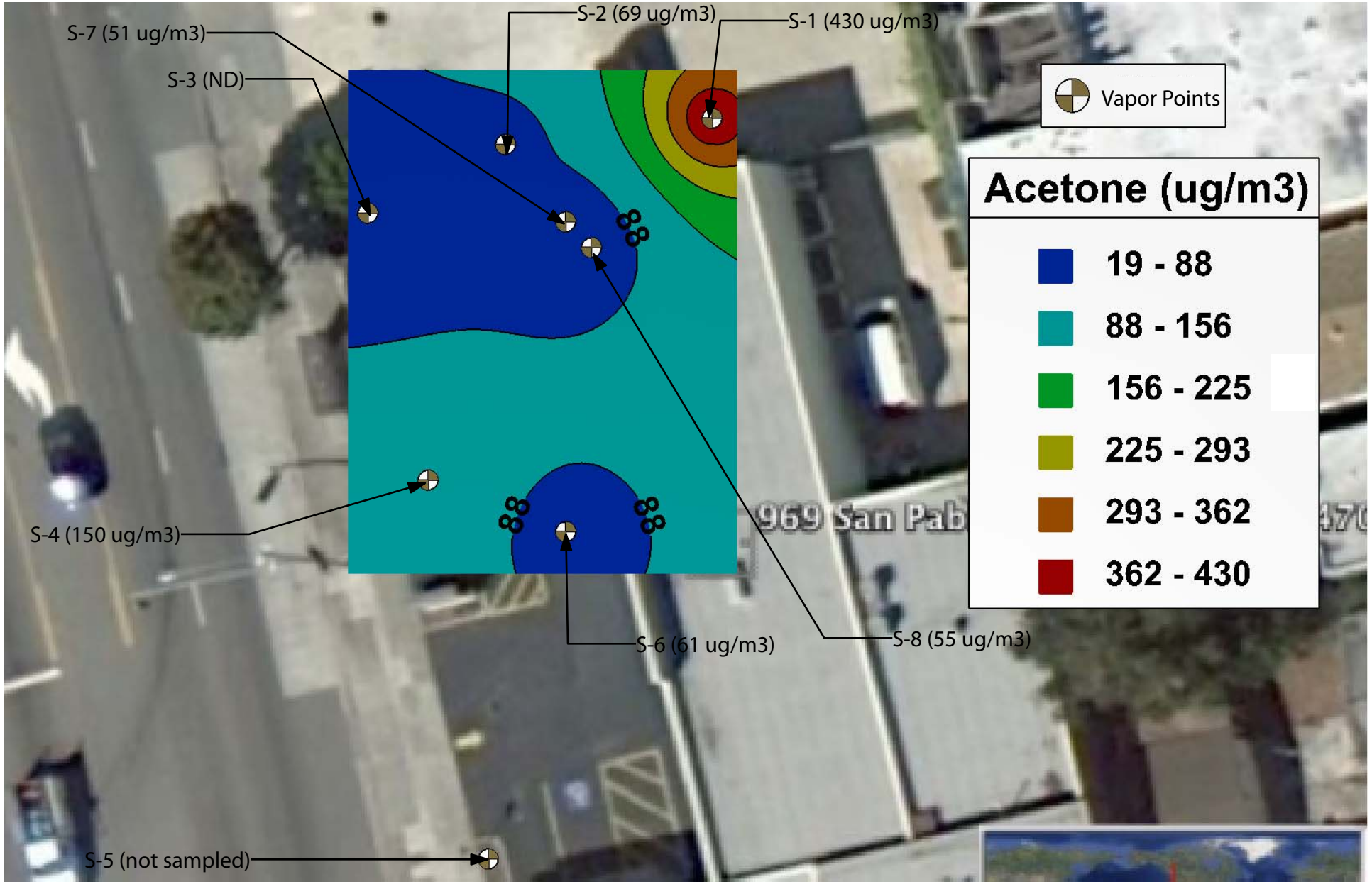
Kelly-Moore Paint Company

987 Commercial, San Carlos, CA 94070

N

Figure

4



ug/m3 = micrograms per cubic meter

Contours by Enviroinsite

residential Environmental Screening Level (rESL) for Acetone = 660,000 ug/m3

ProTech Consulting & Engineering
1208 Main Street, Redwood City, CA 94063
Tele: 650.569.4020 / Fax: 650.569.4023

Job No.	383-OH12
Date	22 June 2012
Drawn by	RC
Rev	WL
Apprvd	WL

Project

Site Plan with Acetone Contours

969 San Pablo Avenue, Albany, CA

For: Mr. Robert Stetson

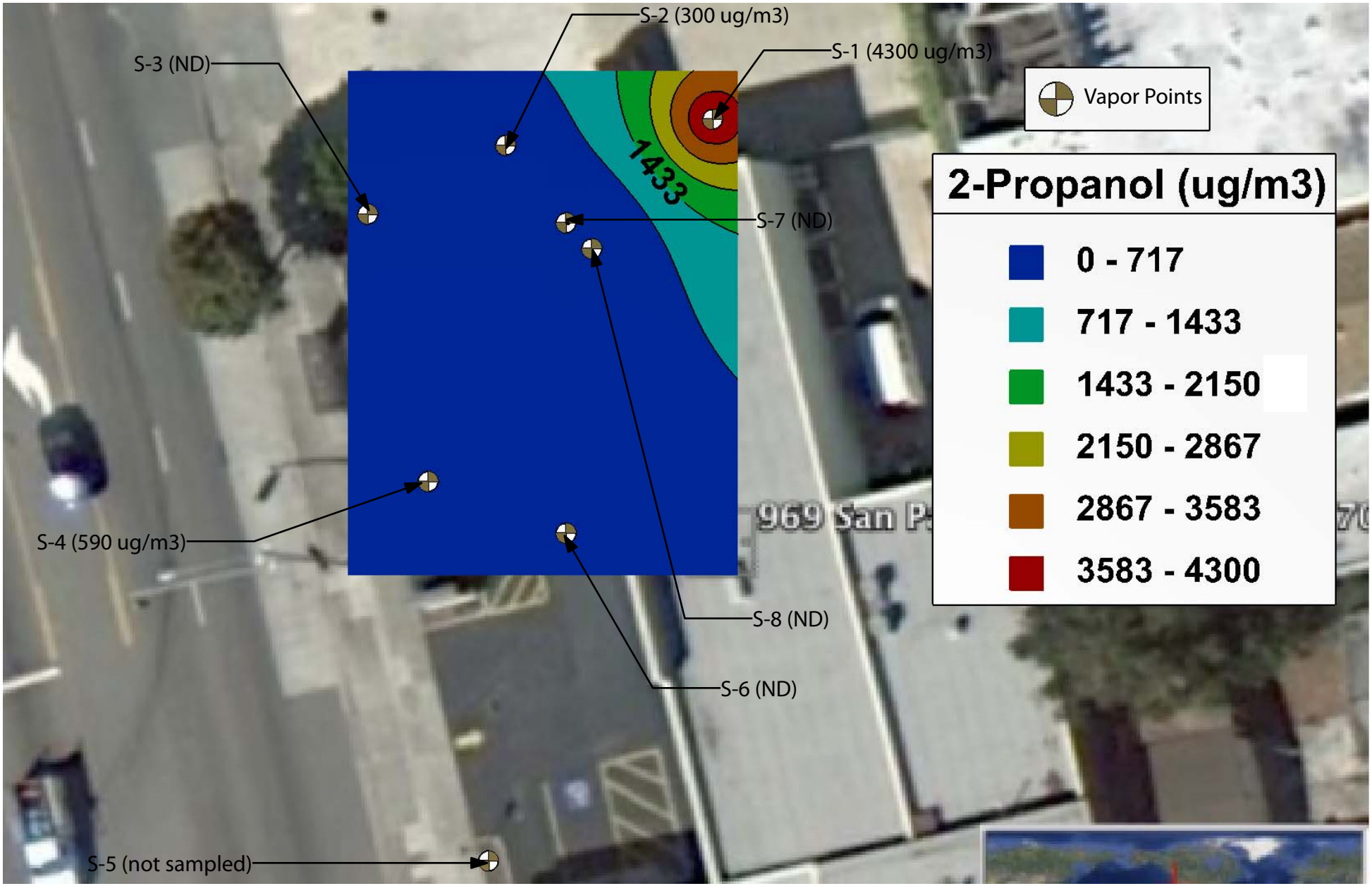
Kelly-Moore Paint Company

987 Commercial, San Carlos, CA 94070

N

Figure

5



Contours by Enviroinsite

ug/m3 = micrograms per cubic meter

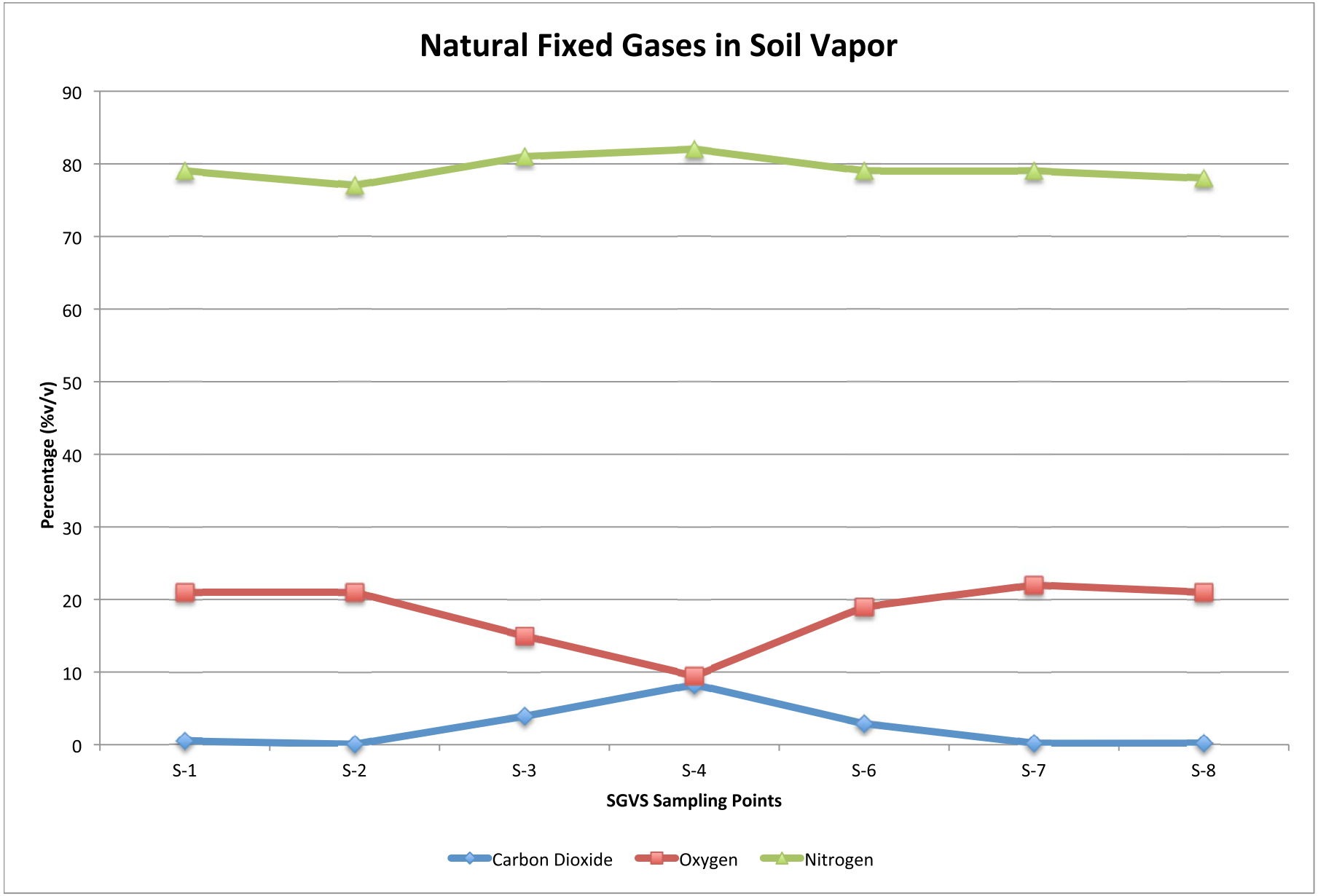
ProTech Consulting & Engineering
1208 Main Street, Redwood City, CA 94063
Tele: 650.569.4020 / Fax: 650.569.4023

Job No.	383-OH12
Date	22 June 2012
Drawn by	RC
Rev	WL
Apprvd	WL

Project
Site Plan with 2-Propanol Contours
969 San Pablo Avenue, Albany, CA
For: Mr. Robert Stetson
Kelly-Moore Paint Company
987 Commercial, San Carlos, CA 94070

N

Figure
6



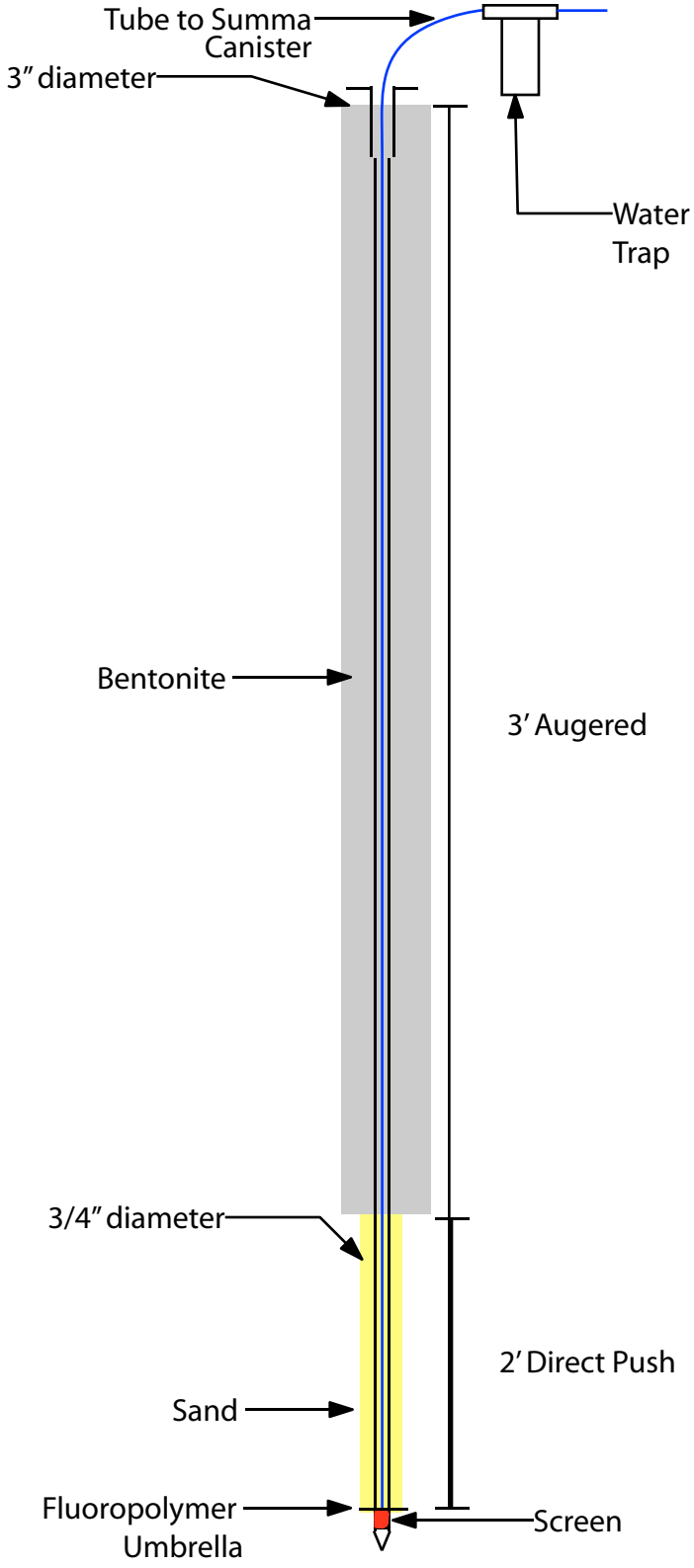
ProTech Consulting & Engineering
1208 Main Street, Redwood City, CA 94063
Tele: 650.569.4020 / Fax: 650.569.4023

Job No.	383-OH12
Date	7 July 2012
Drawn by	RC
Rev	WL
Apprvd	WL

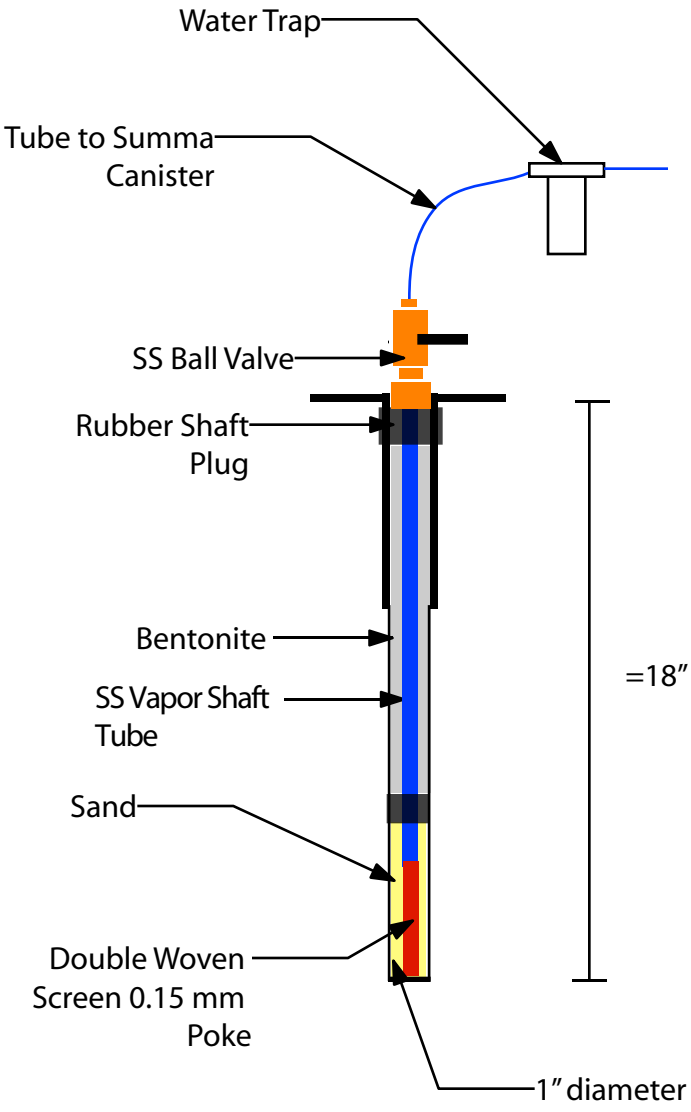
Project
Fixed Gases
969 San Pablo Avenue, Albany, CA
For: Mr. Robert Stetson
Kelly-Moore Paint Company
987 Commercial, San Carlos, CA 94070

Figure
7

Soil Gas Vapor Sample Cross Section For Outside Samples



Soil Gas Vapor Sample Cross Section For Inside Samples



ProTech Consulting & Engineering

1208 Main Street, Redwood City, CA 94063

Tele: 650.569.4020 / Fax: 650.569.4023

Job No.	Date	Drawn by	Rev.	Apprvd.
120107	4 June 2012	RC	WL	WL

Project

Soil Gas Vapor Installation Cross Section

969 San Pablo Avenue, Albany, CA

For: Mr. Robert Stetson

Kelly-Moore Paint Company

987 Commercial, San Carlos, CA 94070

Plate

1

APPENDIX 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Costa Mesa
3585 Cadillac Ave
Suite A
Costa Mesa, CA 92626
Tel: (714)258-8610

TestAmerica Job ID: 340-1952-1
Client Project/Site: Kelly Moore
Revision: 1

For:
ProTech Consulting and Engineering
1208 Main Street
Redwood City, California 94063

Attn: Mr. Woody Lovejoy

Beth Riley

Authorized for release by:
6/4/2012 11:08:28 AM

Beth Riley
Customer Service Manager
beth.riley@testamericainc.com

Table of Contents

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
J,DX	Estimated value; value < lowest standard (MQL), but >than MDL

Air - GC/MS VOA

Qualifier	Qualifier Description
J,DX	Estimated value; value < lowest standard (MQL), but >than MDL
LQ	LCS/LCSD recovery above method control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Job ID: 340-1952-1

Laboratory: TestAmerica Costa Mesa

Narrative

Job Narrative
340-1952-1

This report was revised on 6/4/12 to correct the units from ug/L to ug/m3. No other data has changed.

Receipt
The samples were received on 5/14/2012 10:00 AM; the samples arrived in good condition.

Air - GC VOA
No analytical or quality issues were noted.

Air - GC/MS VOA
Method(s) TO-15 MOD: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS/LCSD associated with batch 1596 had 1 analyte outside control limits but within the marginal exceedence limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

QC Batch 1596
Carbon Tetrachloride LCS 134% (Marginal Exceedence 10-150%)
Carbon Tetrachloride LCSD 135% (Marginal Exceedence 10-150%) RPD 1
Carbon Tetrachloride results may be biased high.

No other analytical or quality issues were noted.

Detection Summary

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-1 — Lab Sample ID: 340-1952-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon Dioxide (FID)	0.51		0.021	0.0042	% v/v	2.1		D1946	Total/NA
Methane (FID)	0.00023	J,DX	0.00042	0.00013	% v/v	2.1		D1946	Total/NA
Nitrogen	79		2.1	1.1	% v/v	2.1		D1946	Total/NA
Oxygen	21		0.42	0.063	% v/v	2.1		D1946	Total/NA
Acetone	180		70	28	ppb v/v	6.99		TO-15 MOD	Total/NA
4-Ethyltoluene	15	J,DX	28	14	ppb v/v	6.99		TO-15 MOD	Total/NA
Toluene	54		28	14	ppb v/v	6.99		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	14	J,DX	35	14	ppb v/v	6.99		TO-15 MOD	Total/NA
m,p-Xylene	57		28	14	ppb v/v	6.99		TO-15 MOD	Total/NA
o-Xylene	17	J,DX	28	14	ppb v/v	6.99		TO-15 MOD	Total/NA
2-Propanol	1700		140	70	ppb v/v	6.99		TO-15 MOD	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	430		170	66	ug/m3	6.99		TO-15 MOD	Total/NA
4-Ethyltoluene	75	J,DX	140	69	ug/m3	6.99		TO-15 MOD	Total/NA
Toluene	200		110	53	ug/m3	6.99		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	70	J,DX	170	69	ug/m3	6.99		TO-15 MOD	Total/NA
m,p-Xylene	250		120	61	ug/m3	6.99		TO-15 MOD	Total/NA
o-Xylene	75	J,DX	120	61	ug/m3	6.99		TO-15 MOD	Total/NA
2-Propanol	4300		340	170	ug/m3	6.99		TO-15 MOD	Total/NA

Client Sample ID: S-2 — Lab Sample ID: 340-1952-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon Dioxide (FID)	0.054		0.022	0.0044	% v/v	2.22		D1946	Total/NA
Methane (FID)	0.00023	J,DX	0.00044	0.00013	% v/v	2.22		D1946	Total/NA
Nitrogen	77		2.2	1.1	% v/v	2.22		D1946	Total/NA
Oxygen	21		0.44	0.067	% v/v	2.22		D1946	Total/NA
Acetone	29		10	4.0	ppb v/v	1		TO-15 MOD	Total/NA
Benzene	3.8	J,DX	4.0	2.0	ppb v/v	1		TO-15 MOD	Total/NA
Bromomethane	3.6	J,DX	4.0	2.0	ppb v/v	1		TO-15 MOD	Total/NA
Ethylbenzene	7.6		4.0	2.0	ppb v/v	1		TO-15 MOD	Total/NA
4-Ethyltoluene	7.5		4.0	2.0	ppb v/v	1		TO-15 MOD	Total/NA
Methylene chloride	5.2		4.0	2.0	ppb v/v	1		TO-15 MOD	Total/NA
Toluene	40		4.0	2.0	ppb v/v	1		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	5.7		5.0	2.0	ppb v/v	1		TO-15 MOD	Total/NA
m,p-Xylene	31		4.0	2.0	ppb v/v	1		TO-15 MOD	Total/NA
o-Xylene	9.0		4.0	2.0	ppb v/v	1		TO-15 MOD	Total/NA
2-Propanol	120		20	10	ppb v/v	1		TO-15 MOD	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	69		24	9.5	ug/m3	1		TO-15 MOD	Total/NA
Benzene	12	J,DX	13	6.4	ug/m3	1		TO-15 MOD	Total/NA
Bromomethane	14	J,DX	16	7.8	ug/m3	1		TO-15 MOD	Total/NA
Ethylbenzene	33		17	8.7	ug/m3	1		TO-15 MOD	Total/NA
4-Ethyltoluene	37		20	9.8	ug/m3	1		TO-15 MOD	Total/NA
Methylene chloride	18		14	6.9	ug/m3	1		TO-15 MOD	Total/NA
Toluene	150		15	7.5	ug/m3	1		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	28		25	9.8	ug/m3	1		TO-15 MOD	Total/NA
m,p-Xylene	140		17	8.7	ug/m3	1		TO-15 MOD	Total/NA
o-Xylene	39		17	8.7	ug/m3	1		TO-15 MOD	Total/NA
2-Propanol	300		49	25	ug/m3	1		TO-15 MOD	Total/NA

Client Sample ID: S-3 — Lab Sample ID: 340-1952-3

Client Sample ID: S-3 (Continued)

Lab Sample ID: 340-1952-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon Dioxide (TCD)	3.9		0.020	0.0040	% v/v	2		D1946	Total/NA
Nitrogen	81		2.0	1.0	% v/v	2		D1946	Total/NA
Oxygen	15		0.40	0.060	% v/v	2		D1946	Total/NA
Acetone	8.1	J,DX	11	4.5	ppb v/v	1.12		TO-15 MOD	Total/NA
Bromomethane	2.4	J,DX	4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Chloroform	2.8	J,DX	4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Ethylbenzene	16		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Methylene chloride	3.1	J,DX	4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Styrene	87		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Toluene	8.2		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
m,p-Xylene	4.7		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
o-Xylene	3.5	J,DX	4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	19	J,DX	27	11	ug/m3	1.12		TO-15 MOD	Total/NA
Bromomethane	9.5	J,DX	17	8.7	ug/m3	1.12		TO-15 MOD	Total/NA
Chloroform	14	J,DX	22	11	ug/m3	1.12		TO-15 MOD	Total/NA
Ethylbenzene	68		19	9.7	ug/m3	1.12		TO-15 MOD	Total/NA
Methylene chloride	11	J,DX	16	7.8	ug/m3	1.12		TO-15 MOD	Total/NA
Styrene	370		19	9.5	ug/m3	1.12		TO-15 MOD	Total/NA
Toluene	31		17	8.4	ug/m3	1.12		TO-15 MOD	Total/NA
m,p-Xylene	21		19	9.7	ug/m3	1.12		TO-15 MOD	Total/NA
o-Xylene	15	J,DX	19	9.7	ug/m3	1.12		TO-15 MOD	Total/NA

Client Sample ID: S-4

Lab Sample ID: 340-1952-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon Dioxide (TCD)	8.3		0.019	0.0038	% v/v	1.92		D1946	Total/NA
Nitrogen	82		1.9	0.96	% v/v	1.92		D1946	Total/NA
Oxygen	9.5		0.38	0.058	% v/v	1.92		D1946	Total/NA
Acetone	64		11	4.5	ppb v/v	1.12		TO-15 MOD	Total/NA
Bromomethane	4.8		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Carbon disulfide	4.7	J,DX	11	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Chloroform	13		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Ethylbenzene	24		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
4-Ethyltoluene	3.0	J,DX	4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Methylene chloride	3.7	J,DX	4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Styrene	140		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
Toluene	9.5		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
m,p-Xylene	7.1		4.5	2.2	ppb v/v	1.12		TO-15 MOD	Total/NA
2-Propanol	240		22	11	ppb v/v	1.12		TO-15 MOD	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		27	11	ug/m3	1.12		TO-15 MOD	Total/NA
Bromomethane	19		17	8.7	ug/m3	1.12		TO-15 MOD	Total/NA
Carbon disulfide	15	J,DX	35	7.0	ug/m3	1.12		TO-15 MOD	Total/NA
Chloroform	65		22	11	ug/m3	1.12		TO-15 MOD	Total/NA
Ethylbenzene	110		19	9.7	ug/m3	1.12		TO-15 MOD	Total/NA
4-Ethyltoluene	15	J,DX	22	11	ug/m3	1.12		TO-15 MOD	Total/NA
Methylene chloride	13	J,DX	16	7.8	ug/m3	1.12		TO-15 MOD	Total/NA
Styrene	610		19	9.5	ug/m3	1.12		TO-15 MOD	Total/NA
Toluene	36		17	8.4	ug/m3	1.12		TO-15 MOD	Total/NA
m,p-Xylene	31		19	9.7	ug/m3	1.12		TO-15 MOD	Total/NA
2-Propanol	590		55	28	ug/m3	1.12		TO-15 MOD	Total/NA

Client Sample ID: S-6 — Lab Sample ID: 340-1952-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon Dioxide (TCD)	2.9		0.021	0.0041	% v/v	2.06		D1946	Total/NA
Nitrogen	79		2.1	1.0	% v/v	2.06		D1946	Total/NA
Oxygen	19		0.41	0.062	% v/v	2.06		D1946	Total/NA
Acetone	26		10	4.1	ppb v/v	1.02		TO-15 MOD	Total/NA
Benzene	4.1		4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
Bromomethane	2.5	J,DX	4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
Chloroform	15		4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
Ethylbenzene	20		4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
4-Ethyltoluene	28		4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
Tetrachloroethene	7.8		4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
Toluene	72		4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	25		5.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
1,3,5-Trimethylbenzene	6.8		4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
m,p-Xylene	88		4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA
o-Xylene	28		4.1	2.0	ppb v/v	1.02		TO-15 MOD	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	61		24	9.7	ug/m3	1.02		TO-15 MOD	Total/NA
Benzene	13		13	6.5	ug/m3	1.02		TO-15 MOD	Total/NA
Bromomethane	9.7	J,DX	16	7.9	ug/m3	1.02		TO-15 MOD	Total/NA
Chloroform	72		20	10	ug/m3	1.02		TO-15 MOD	Total/NA
Ethylbenzene	85		18	8.9	ug/m3	1.02		TO-15 MOD	Total/NA
4-Ethyltoluene	140		20	10	ug/m3	1.02		TO-15 MOD	Total/NA
Tetrachloroethene	53		28	14	ug/m3	1.02		TO-15 MOD	Total/NA
Toluene	270		15	7.7	ug/m3	1.02		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	120		25	10	ug/m3	1.02		TO-15 MOD	Total/NA
1,3,5-Trimethylbenzene	33		20	10	ug/m3	1.02		TO-15 MOD	Total/NA
m,p-Xylene	380		18	8.9	ug/m3	1.02		TO-15 MOD	Total/NA
o-Xylene	120		18	8.9	ug/m3	1.02		TO-15 MOD	Total/NA

Client Sample ID: S-7 — Lab Sample ID: 340-1952-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon Dioxide (FID)	0.18		0.021	0.0042	% v/v	2.11		D1946	Total/NA
Nitrogen	79		2.1	1.1	% v/v	2.11		D1946	Total/NA
Oxygen	22		0.42	0.063	% v/v	2.11		D1946	Total/NA
Acetone	22		11	4.4	ppb v/v	1.09		TO-15 MOD	Total/NA
Benzene	2.4	J,DX	4.4	2.2	ppb v/v	1.09		TO-15 MOD	Total/NA
Bromomethane	3.5	J,DX	4.4	2.2	ppb v/v	1.09		TO-15 MOD	Total/NA
Ethylbenzene	13		4.4	2.2	ppb v/v	1.09		TO-15 MOD	Total/NA
4-Ethyltoluene	21		4.4	2.2	ppb v/v	1.09		TO-15 MOD	Total/NA
Toluene	43		4.4	2.2	ppb v/v	1.09		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	20		5.5	2.2	ppb v/v	1.09		TO-15 MOD	Total/NA
1,3,5-Trimethylbenzene	5.3		4.4	2.2	ppb v/v	1.09		TO-15 MOD	Total/NA
m,p-Xylene	61		4.4	2.2	ppb v/v	1.09		TO-15 MOD	Total/NA
o-Xylene	19		4.4	2.2	ppb v/v	1.09		TO-15 MOD	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	51		26	10	ug/m3	1.09		TO-15 MOD	Total/NA
Benzene	7.8	J,DX	14	7.0	ug/m3	1.09		TO-15 MOD	Total/NA
Bromomethane	14	J,DX	17	8.5	ug/m3	1.09		TO-15 MOD	Total/NA
Ethylbenzene	56		19	9.5	ug/m3	1.09		TO-15 MOD	Total/NA
4-Ethyltoluene	110		21	11	ug/m3	1.09		TO-15 MOD	Total/NA
Toluene	160		16	8.2	ug/m3	1.09		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	97		27	11	ug/m3	1.09		TO-15 MOD	Total/NA

Client Sample ID: S-7 (Continued)

Lab Sample ID: 340-1952-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	26		21	11	ug/m3	1.09		TO-15 MOD	Total/NA
m,p-Xylene	270		19	9.5	ug/m3	1.09		TO-15 MOD	Total/NA
o-Xylene	84		19	9.5	ug/m3	1.09		TO-15 MOD	Total/NA

Client Sample ID: S-8

Lab Sample ID: 340-1952-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon Dioxide (FID)	0.20		0.020	0.0040	% v/v	2.02		D1946	Total/NA
Methane (FID)	0.00022	J,DX	0.00040	0.00012	% v/v	2.02		D1946	Total/NA
Nitrogen	78		2.0	1.0	% v/v	2.02		D1946	Total/NA
Oxygen	21		0.40	0.061	% v/v	2.02		D1946	Total/NA
Acetone	23		10	4.1	ppb v/v	1.03		TO-15 MOD	Total/NA
Benzene	4.2		4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
Bromomethane	2.7	J,DX	4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
Chloroform	4.6		4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
Ethylbenzene	19		4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
4-Ethyltoluene	28		4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
Tetrachloroethene	4.2		4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
Toluene	66		4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	25		5.2	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
1,3,5-Trimethylbenzene	6.5		4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
m,p-Xylene	84		4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA
o-Xylene	27		4.1	2.1	ppb v/v	1.03		TO-15 MOD	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	55		24	9.8	ug/m3	1.03		TO-15 MOD	Total/NA
Benzene	14		13	6.6	ug/m3	1.03		TO-15 MOD	Total/NA
Bromomethane	11	J,DX	16	8.0	ug/m3	1.03		TO-15 MOD	Total/NA
Chloroform	22		20	10	ug/m3	1.03		TO-15 MOD	Total/NA
Ethylbenzene	82		18	8.9	ug/m3	1.03		TO-15 MOD	Total/NA
4-Ethyltoluene	140		20	10	ug/m3	1.03		TO-15 MOD	Total/NA
Tetrachloroethene	28		28	14	ug/m3	1.03		TO-15 MOD	Total/NA
Toluene	250		16	7.8	ug/m3	1.03		TO-15 MOD	Total/NA
1,2,4-Trimethylbenzene	120		25	10	ug/m3	1.03		TO-15 MOD	Total/NA
1,3,5-Trimethylbenzene	32		20	10	ug/m3	1.03		TO-15 MOD	Total/NA
m,p-Xylene	370		18	8.9	ug/m3	1.03		TO-15 MOD	Total/NA
o-Xylene	120		18	8.9	ug/m3	1.03		TO-15 MOD	Total/NA

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-1
Date Collected: 05/11/12 09:31
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-1
Matrix: Air

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide (FID)	**0.51**		0.021	0.0042	% v/v			05/15/12 14:19	2.1
Methane (FID)	**0.00023**	**J,DX**	0.00042	0.00013	% v/v			05/15/12 14:19	2.1
Nitrogen	**79**		2.1	1.1	% v/v			05/15/12 14:19	2.1
Oxygen	**21**		0.42	0.063	% v/v			05/15/12 14:19	2.1

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**180**		70	28	ppb v/v			05/15/12 22:27	6.99
Benzene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Benzyl chloride	ND		70	28	ppb v/v			05/15/12 22:27	6.99
Bromodichloromethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Bromoform	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Bromomethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
2-Butanone (MEK)	ND		70	28	ppb v/v			05/15/12 22:27	6.99
Carbon disulfide	ND		70	14	ppb v/v			05/15/12 22:27	6.99
Carbon tetrachloride	ND	LQ	70	28	ppb v/v			05/15/12 22:27	6.99
Chlorobenzene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Dibromochloromethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Chloroethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Chloroform	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Chloromethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,2-Dibromoethane (EDB)	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,2-Dichlorobenzene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,3-Dichlorobenzene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,4-Dichlorobenzene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Dichlorodifluoromethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,1-Dichloroethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,2-Dichloroethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,1-Dichloroethene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
cis-1,2-Dichloroethene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
trans-1,2-Dichloroethene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,2-Dichloropropane	ND		35	14	ppb v/v			05/15/12 22:27	6.99
cis-1,3-Dichloropropene	ND		35	14	ppb v/v			05/15/12 22:27	6.99
trans-1,3-Dichloropropene	ND		70	28	ppb v/v			05/15/12 22:27	6.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Ethylbenzene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
4-Ethyltoluene	**15**	**J,DX**	28	14	ppb v/v			05/15/12 22:27	6.99
Hexachlorobutadiene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
2-Hexanone	ND		70	14	ppb v/v			05/15/12 22:27	6.99
Methylene chloride	ND		28	14	ppb v/v			05/15/12 22:27	6.99
4-Methyl-2-pentanone (MIBK)	ND		70	14	ppb v/v			05/15/12 22:27	6.99
Styrene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,1,2,2-Tetrachloroethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Tetrachloroethene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Toluene	**54**		28	14	ppb v/v			05/15/12 22:27	6.99
1,2,4-Trichlorobenzene	ND		35	17	ppb v/v			05/15/12 22:27	6.99
1,1,1-Trichloroethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,1,2-Trichloroethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Trichloroethene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Trichlorofluoromethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-1
Date Collected: 05/11/12 09:31
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-1
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		28	14	ppb v/v			05/15/12 22:27	6.99
1,2,4-Trimethylbenzene	**14**	**J,DX**	35	14	ppb v/v			05/15/12 22:27	6.99
1,3,5-Trimethylbenzene	ND		28	14	ppb v/v			05/15/12 22:27	6.99
Vinyl acetate	ND		70	28	ppb v/v			05/15/12 22:27	6.99
Vinyl chloride	ND		28	14	ppb v/v			05/15/12 22:27	6.99
m,p-Xylene	**57**		28	14	ppb v/v			05/15/12 22:27	6.99
o-Xylene	**17**	**J,DX**	28	14	ppb v/v			05/15/12 22:27	6.99
2-Propanol	**1700**		140	70	ppb v/v			05/15/12 22:27	6.99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**430**		170	66	ug/m3			05/15/12 22:27	6.99
Benzene	ND		89	45	ug/m3			05/15/12 22:27	6.99
Benzyl chloride	ND		360	140	ug/m3			05/15/12 22:27	6.99
Bromodichloromethane	ND		190	94	ug/m3			05/15/12 22:27	6.99
Bromoform	ND		290	140	ug/m3			05/15/12 22:27	6.99
Bromomethane	ND		110	54	ug/m3			05/15/12 22:27	6.99
2-Butanone (MEK)	ND		210	82	ug/m3			05/15/12 22:27	6.99
Carbon disulfide	ND		220	44	ug/m3			05/15/12 22:27	6.99
Carbon tetrachloride	ND	LQ	440	180	ug/m3			05/15/12 22:27	6.99
Chlorobenzene	ND		130	64	ug/m3			05/15/12 22:27	6.99
Dibromochloromethane	ND		240	120	ug/m3			05/15/12 22:27	6.99
Chloroethane	ND		74	37	ug/m3			05/15/12 22:27	6.99
Chloroform	ND		140	68	ug/m3			05/15/12 22:27	6.99
Chloromethane	ND		58	29	ug/m3			05/15/12 22:27	6.99
1,2-Dibromoethane (EDB)	ND		210	110	ug/m3			05/15/12 22:27	6.99
1,2-Dichlorobenzene	ND		170	84	ug/m3			05/15/12 22:27	6.99
1,3-Dichlorobenzene	ND		170	84	ug/m3			05/15/12 22:27	6.99
1,4-Dichlorobenzene	ND		170	84	ug/m3			05/15/12 22:27	6.99
Dichlorodifluoromethane	ND		140	69	ug/m3			05/15/12 22:27	6.99
1,1-Dichloroethane	ND		110	57	ug/m3			05/15/12 22:27	6.99
1,2-Dichloroethane	ND		110	57	ug/m3			05/15/12 22:27	6.99
1,1-Dichloroethene	ND		110	55	ug/m3			05/15/12 22:27	6.99
cis-1,2-Dichloroethene	ND		110	55	ug/m3			05/15/12 22:27	6.99
trans-1,2-Dichloroethene	ND		110	55	ug/m3			05/15/12 22:27	6.99
1,2-Dichloropropane	ND		160	65	ug/m3			05/15/12 22:27	6.99
cis-1,3-Dichloropropene	ND		160	63	ug/m3			05/15/12 22:27	6.99
trans-1,3-Dichloropropene	ND		320	130	ug/m3			05/15/12 22:27	6.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		200	98	ug/m3			05/15/12 22:27	6.99
Ethylbenzene	ND		120	61	ug/m3			05/15/12 22:27	6.99
4-Ethyltoluene	**75**	**J,DX**	140	69	ug/m3			05/15/12 22:27	6.99
Hexachlorobutadiene	ND		300	150	ug/m3			05/15/12 22:27	6.99
2-Hexanone	ND		290	57	ug/m3			05/15/12 22:27	6.99
Methylene chloride	ND		97	49	ug/m3			05/15/12 22:27	6.99
4-Methyl-2-pentanone (MIBK)	ND		290	57	ug/m3			05/15/12 22:27	6.99
Styrene	ND		120	60	ug/m3			05/15/12 22:27	6.99
1,1,2,2-Tetrachloroethane	ND		190	96	ug/m3			05/15/12 22:27	6.99
Tetrachloroethene	ND		190	95	ug/m3			05/15/12 22:27	6.99
Toluene	**200**		110	53	ug/m3			05/15/12 22:27	6.99
1,2,4-Trichlorobenzene	ND		260	130	ug/m3			05/15/12 22:27	6.99
1,1,1-Trichloroethane	ND		150	76	ug/m3			05/15/12 22:27	6.99
1,1,2-Trichloroethane	ND		150	76	ug/m3			05/15/12 22:27	6.99

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-1
Date Collected: 05/11/12 09:31
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-1
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		150	75	ug/m3			05/15/12 22:27	6.99
Trichlorofluoromethane	ND		160	79	ug/m3			05/15/12 22:27	6.99
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		210	110	ug/m3			05/15/12 22:27	6.99
1,2,4-Trimethylbenzene	**70**	**J,DX**	170	69	ug/m3			05/15/12 22:27	6.99
1,3,5-Trimethylbenzene	ND		140	69	ug/m3			05/15/12 22:27	6.99
Vinyl acetate	ND		250	98	ug/m3			05/15/12 22:27	6.99
Vinyl chloride	ND		71	36	ug/m3			05/15/12 22:27	6.99
m,p-Xylene	**250**		120	61	ug/m3			05/15/12 22:27	6.99
o-Xylene	**75**	**J,DX**	120	61	ug/m3			05/15/12 22:27	6.99
2-Propanol	**4300**		340	170	ug/m3			05/15/12 22:27	6.99

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*05/15/12 22:27*	*6.99*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*05/15/12 22:27*	*6.99*
Toluene-d8 (Surr)	*97*		*70 - 130*		*05/15/12 22:27*	*6.99*

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-2
Date Collected: 05/11/12 10:05
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-2
Matrix: Air

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide (FID)	**0.054**		0.022	0.0044	% v/v			05/15/12 14:38	2.22
Methane (FID)	**0.00023**	**J,DX**	0.00044	0.00013	% v/v			05/15/12 14:38	2.22
Nitrogen	**77**		2.2	1.1	% v/v			05/15/12 14:38	2.22
Oxygen	**21**		0.44	0.067	% v/v			05/15/12 14:38	2.22

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**29**		10	4.0	ppb v/v			05/16/12 07:31	1
Benzene	**3.8**	**J,DX**	4.0	2.0	ppb v/v			05/16/12 07:31	1
Benzyl chloride	ND		10	4.0	ppb v/v			05/16/12 07:31	1
Bromodichloromethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Bromoform	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Bromomethane	**3.6**	**J,DX**	4.0	2.0	ppb v/v			05/16/12 07:31	1
2-Butanone (MEK)	ND		10	4.0	ppb v/v			05/16/12 07:31	1
Carbon disulfide	ND		10	2.0	ppb v/v			05/16/12 07:31	1
Carbon tetrachloride	ND	LQ	10	4.0	ppb v/v			05/16/12 07:31	1
Chlorobenzene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Dibromochloromethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Chloroethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Chloroform	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Chloromethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,2-Dibromoethane (EDB)	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,2-Dichlorobenzene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,3-Dichlorobenzene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,4-Dichlorobenzene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Dichlorodifluoromethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,1-Dichloroethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,2-Dichloroethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,1-Dichloroethene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
cis-1,2-Dichloroethene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
trans-1,2-Dichloroethene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,2-Dichloropropane	ND		5.0	2.0	ppb v/v			05/16/12 07:31	1
cis-1,3-Dichloropropene	ND		5.0	2.0	ppb v/v			05/16/12 07:31	1
trans-1,3-Dichloropropene	ND		10	4.0	ppb v/v			05/16/12 07:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Ethylbenzene	**7.6**		4.0	2.0	ppb v/v			05/16/12 07:31	1
4-Ethyltoluene	**7.5**		4.0	2.0	ppb v/v			05/16/12 07:31	1
Hexachlorobutadiene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
2-Hexanone	ND		10	2.0	ppb v/v			05/16/12 07:31	1
Methylene chloride	**5.2**		4.0	2.0	ppb v/v			05/16/12 07:31	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.0	ppb v/v			05/16/12 07:31	1
Styrene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,1,2,2-Tetrachloroethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Tetrachloroethene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Toluene	**40**		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ppb v/v			05/16/12 07:31	1
1,1,1-Trichloroethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,1,2-Trichloroethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Trichloroethene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Trichlorofluoromethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-2
Date Collected: 05/11/12 10:05
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-2
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
1,2,4-Trimethylbenzene	**5.7**		5.0	2.0	ppb v/v			05/16/12 07:31	1
1,3,5-Trimethylbenzene	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
Vinyl acetate	ND		10	4.0	ppb v/v			05/16/12 07:31	1
Vinyl chloride	ND		4.0	2.0	ppb v/v			05/16/12 07:31	1
m,p-Xylene	**31**		4.0	2.0	ppb v/v			05/16/12 07:31	1
o-Xylene	**9.0**		4.0	2.0	ppb v/v			05/16/12 07:31	1
2-Propanol	**120**		20	10	ppb v/v			05/16/12 07:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**69**		24	9.5	ug/m3			05/16/12 07:31	1
Benzene	**12**	**J,DX**	13	6.4	ug/m3			05/16/12 07:31	1
Benzyl chloride	ND		52	21	ug/m3			05/16/12 07:31	1
Bromodichloromethane	ND		27	13	ug/m3			05/16/12 07:31	1
Bromoform	ND		41	21	ug/m3			05/16/12 07:31	1
Bromomethane	**14**	**J,DX**	16	7.8	ug/m3			05/16/12 07:31	1
2-Butanone (MEK)	ND		29	12	ug/m3			05/16/12 07:31	1
Carbon disulfide	ND		31	6.2	ug/m3			05/16/12 07:31	1
Carbon tetrachloride	ND	LQ	63	25	ug/m3			05/16/12 07:31	1
Chlorobenzene	ND		18	9.2	ug/m3			05/16/12 07:31	1
Dibromochloromethane	ND		34	17	ug/m3			05/16/12 07:31	1
Chloroethane	ND		11	5.3	ug/m3			05/16/12 07:31	1
Chloroform	ND		20	9.8	ug/m3			05/16/12 07:31	1
Chloromethane	ND		8.3	4.1	ug/m3			05/16/12 07:31	1
1,2-Dibromoethane (EDB)	ND		31	15	ug/m3			05/16/12 07:31	1
1,2-Dichlorobenzene	ND		24	12	ug/m3			05/16/12 07:31	1
1,3-Dichlorobenzene	ND		24	12	ug/m3			05/16/12 07:31	1
1,4-Dichlorobenzene	ND		24	12	ug/m3			05/16/12 07:31	1
Dichlorodifluoromethane	ND		20	9.9	ug/m3			05/16/12 07:31	1
1,1-Dichloroethane	ND		16	8.1	ug/m3			05/16/12 07:31	1
1,2-Dichloroethane	ND		16	8.1	ug/m3			05/16/12 07:31	1
1,1-Dichloroethene	ND		16	7.9	ug/m3			05/16/12 07:31	1
cis-1,2-Dichloroethene	ND		16	7.9	ug/m3			05/16/12 07:31	1
trans-1,2-Dichloroethene	ND		16	7.9	ug/m3			05/16/12 07:31	1
1,2-Dichloropropane	ND		23	9.2	ug/m3			05/16/12 07:31	1
cis-1,3-Dichloropropene	ND		23	9.1	ug/m3			05/16/12 07:31	1
trans-1,3-Dichloropropene	ND		45	18	ug/m3			05/16/12 07:31	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		28	14	ug/m3			05/16/12 07:31	1
Ethylbenzene	**33**		17	8.7	ug/m3			05/16/12 07:31	1
4-Ethyltoluene	**37**		20	9.8	ug/m3			05/16/12 07:31	1
Hexachlorobutadiene	ND		43	21	ug/m3			05/16/12 07:31	1
2-Hexanone	ND		41	8.2	ug/m3			05/16/12 07:31	1
Methylene chloride	**18**		14	6.9	ug/m3			05/16/12 07:31	1
4-Methyl-2-pentanone (MIBK)	ND		41	8.2	ug/m3			05/16/12 07:31	1
Styrene	ND		17	8.5	ug/m3			05/16/12 07:31	1
1,1,2,2-Tetrachloroethane	ND		27	14	ug/m3			05/16/12 07:31	1
Tetrachloroethene	ND		27	14	ug/m3			05/16/12 07:31	1
Toluene	**150**		15	7.5	ug/m3			05/16/12 07:31	1
1,2,4-Trichlorobenzene	ND		37	19	ug/m3			05/16/12 07:31	1
1,1,1-Trichloroethane	ND		22	11	ug/m3			05/16/12 07:31	1
1,1,2-Trichloroethane	ND		22	11	ug/m3			05/16/12 07:31	1

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-2
Date Collected: 05/11/12 10:05
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-2
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		21	11	ug/m3			05/16/12 07:31	1
Trichlorofluoromethane	ND		22	11	ug/m3			05/16/12 07:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		31	15	ug/m3			05/16/12 07:31	1
1,2,4-Trimethylbenzene	**28**		25	9.8	ug/m3			05/16/12 07:31	1
1,3,5-Trimethylbenzene	ND		20	9.8	ug/m3			05/16/12 07:31	1
Vinyl acetate	ND		35	14	ug/m3			05/16/12 07:31	1
Vinyl chloride	ND		10	5.1	ug/m3			05/16/12 07:31	1
m,p-Xylene	**140**		17	8.7	ug/m3			05/16/12 07:31	1
o-Xylene	**39**		17	8.7	ug/m3			05/16/12 07:31	1
2-Propanol	**300**		49	25	ug/m3			05/16/12 07:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*05/16/12 07:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*05/16/12 07:31*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/16/12 07:31*	*1*

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-3
Date Collected: 05/11/12 11:20
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-3
Matrix: Air

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide (TCD)	**3.9**		0.020	0.0040	% v/v			05/15/12 14:56	2
Methane (FID)	ND		0.00040	0.00012	% v/v			05/15/12 14:56	2
Nitrogen	**81**		2.0	1.0	% v/v			05/15/12 14:56	2
Oxygen	**15**		0.40	0.060	% v/v			05/15/12 14:56	2

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.1**	**J,DX**	11	4.5	ppb v/v			05/16/12 03:23	1.12
Benzene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Benzyl chloride	ND		11	4.5	ppb v/v			05/16/12 03:23	1.12
Bromodichloromethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Bromoform	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Bromomethane	**2.4**	**J,DX**	4.5	2.2	ppb v/v			05/16/12 03:23	1.12
2-Butanone (MEK)	ND		11	4.5	ppb v/v			05/16/12 03:23	1.12
Carbon disulfide	ND		11	2.2	ppb v/v			05/16/12 03:23	1.12
Carbon tetrachloride	ND	LQ	11	4.5	ppb v/v			05/16/12 03:23	1.12
Chlorobenzene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Dibromochloromethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Chloroethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Chloroform	**2.8**	**J,DX**	4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Chloromethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,2-Dibromoethane (EDB)	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,2-Dichlorobenzene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,3-Dichlorobenzene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,4-Dichlorobenzene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Dichlorodifluoromethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,1-Dichloroethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,2-Dichloroethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,1-Dichloroethene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
cis-1,2-Dichloroethene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
trans-1,2-Dichloroethene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,2-Dichloropropane	ND		5.6	2.2	ppb v/v			05/16/12 03:23	1.12
cis-1,3-Dichloropropene	ND		5.6	2.2	ppb v/v			05/16/12 03:23	1.12
trans-1,3-Dichloropropene	ND		11	4.5	ppb v/v			05/16/12 03:23	1.12
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Ethylbenzene	**16**		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
4-Ethyltoluene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Hexachlorobutadiene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
2-Hexanone	ND		11	2.2	ppb v/v			05/16/12 03:23	1.12
Methylene chloride	**3.1**	**J,DX**	4.5	2.2	ppb v/v			05/16/12 03:23	1.12
4-Methyl-2-pentanone (MIBK)	ND		11	2.2	ppb v/v			05/16/12 03:23	1.12
Styrene	**87**		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,1,2,2-Tetrachloroethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Tetrachloroethene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Toluene	**8.2**		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,2,4-Trichlorobenzene	ND		5.6	2.8	ppb v/v			05/16/12 03:23	1.12
1,1,1-Trichloroethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,1,2-Trichloroethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Trichloroethene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Trichlorofluoromethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-3
Date Collected: 05/11/12 11:20
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-3
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
1,2,4-Trimethylbenzene	ND		5.6	2.2	ppb v/v			05/16/12 03:23	1.12
1,3,5-Trimethylbenzene	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
Vinyl acetate	ND		11	4.5	ppb v/v			05/16/12 03:23	1.12
Vinyl chloride	ND		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
m,p-Xylene	**4.7**		4.5	2.2	ppb v/v			05/16/12 03:23	1.12
o-Xylene	**3.5**	**J,DX**	4.5	2.2	ppb v/v			05/16/12 03:23	1.12
2-Propanol	ND		22	11	ppb v/v			05/16/12 03:23	1.12

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**19**	**J,DX**	27	11	ug/m3			05/16/12 03:23	1.12
Benzene	ND		14	7.2	ug/m3			05/16/12 03:23	1.12
Benzyl chloride	ND		58	23	ug/m3			05/16/12 03:23	1.12
Bromodichloromethane	ND		30	15	ug/m3			05/16/12 03:23	1.12
Bromoform	ND		46	23	ug/m3			05/16/12 03:23	1.12
Bromomethane	**9.5**	**J,DX**	17	8.7	ug/m3			05/16/12 03:23	1.12
2-Butanone (MEK)	ND		33	13	ug/m3			05/16/12 03:23	1.12
Carbon disulfide	ND		35	7.0	ug/m3			05/16/12 03:23	1.12
Carbon tetrachloride	ND	LQ	70	28	ug/m3			05/16/12 03:23	1.12
Chlorobenzene	ND		21	10	ug/m3			05/16/12 03:23	1.12
Dibromochloromethane	ND		38	19	ug/m3			05/16/12 03:23	1.12
Chloroethane	ND		12	5.9	ug/m3			05/16/12 03:23	1.12
Chloroform	**14**	**J,DX**	22	11	ug/m3			05/16/12 03:23	1.12
Chloromethane	ND		9.3	4.6	ug/m3			05/16/12 03:23	1.12
1,2-Dibromoethane (EDB)	ND		34	17	ug/m3			05/16/12 03:23	1.12
1,2-Dichlorobenzene	ND		27	13	ug/m3			05/16/12 03:23	1.12
1,3-Dichlorobenzene	ND		27	13	ug/m3			05/16/12 03:23	1.12
1,4-Dichlorobenzene	ND		27	13	ug/m3			05/16/12 03:23	1.12
Dichlorodifluoromethane	ND		22	11	ug/m3			05/16/12 03:23	1.12
1,1-Dichloroethane	ND		18	9.1	ug/m3			05/16/12 03:23	1.12
1,2-Dichloroethane	ND		18	9.1	ug/m3			05/16/12 03:23	1.12
1,1-Dichloroethene	ND		18	8.9	ug/m3			05/16/12 03:23	1.12
cis-1,2-Dichloroethene	ND		18	8.9	ug/m3			05/16/12 03:23	1.12
trans-1,2-Dichloroethene	ND		18	8.9	ug/m3			05/16/12 03:23	1.12
1,2-Dichloropropane	ND		26	10	ug/m3			05/16/12 03:23	1.12
cis-1,3-Dichloropropene	ND		25	10	ug/m3			05/16/12 03:23	1.12
trans-1,3-Dichloropropene	ND		51	20	ug/m3			05/16/12 03:23	1.12
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		31	16	ug/m3			05/16/12 03:23	1.12
Ethylbenzene	**68**		19	9.7	ug/m3			05/16/12 03:23	1.12
4-Ethyltoluene	ND		22	11	ug/m3			05/16/12 03:23	1.12
Hexachlorobutadiene	ND		48	24	ug/m3			05/16/12 03:23	1.12
2-Hexanone	ND		46	9.2	ug/m3			05/16/12 03:23	1.12
Methylene chloride	**11**	**J,DX**	16	7.8	ug/m3			05/16/12 03:23	1.12
4-Methyl-2-pentanone (MIBK)	ND		46	9.2	ug/m3			05/16/12 03:23	1.12
Styrene	**370**		19	9.5	ug/m3			05/16/12 03:23	1.12
1,1,2,2-Tetrachloroethane	ND		31	15	ug/m3			05/16/12 03:23	1.12
Tetrachloroethene	ND		30	15	ug/m3			05/16/12 03:23	1.12
Toluene	**31**		17	8.4	ug/m3			05/16/12 03:23	1.12
1,2,4-Trichlorobenzene	ND		42	21	ug/m3			05/16/12 03:23	1.12
1,1,1-Trichloroethane	ND		24	12	ug/m3			05/16/12 03:23	1.12
1,1,2-Trichloroethane	ND		24	12	ug/m3			05/16/12 03:23	1.12

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-3
Date Collected: 05/11/12 11:20
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-3
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		24	12	ug/m3			05/16/12 03:23	1.12
Trichlorofluoromethane	ND		25	13	ug/m3			05/16/12 03:23	1.12
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		34	17	ug/m3			05/16/12 03:23	1.12
1,2,4-Trimethylbenzene	ND		28	11	ug/m3			05/16/12 03:23	1.12
1,3,5-Trimethylbenzene	ND		22	11	ug/m3			05/16/12 03:23	1.12
Vinyl acetate	ND		39	16	ug/m3			05/16/12 03:23	1.12
Vinyl chloride	ND		11	5.7	ug/m3			05/16/12 03:23	1.12
m,p-Xylene	**21**		19	9.7	ug/m3			05/16/12 03:23	1.12
o-Xylene	**15**	**J,DX**	19	9.7	ug/m3			05/16/12 03:23	1.12
2-Propanol	ND		55	28	ug/m3			05/16/12 03:23	1.12

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*05/16/12 03:23*	*1.12*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*05/16/12 03:23*	*1.12*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/16/12 03:23*	*1.12*

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-4
Date Collected: 05/11/12 11:36
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-4
Matrix: Air

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide (TCD)	**8.3**		0.019	0.0038	% v/v			05/15/12 15:15	1.92
Methane (FID)	ND		0.00038	0.00012	% v/v			05/15/12 15:15	1.92
Nitrogen	**82**		1.9	0.96	% v/v			05/15/12 15:15	1.92
Oxygen	**9.5**		0.38	0.058	% v/v			05/15/12 15:15	1.92

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**64**		11	4.5	ppb v/v			05/16/12 04:13	1.12
Benzene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Benzyl chloride	ND		11	4.5	ppb v/v			05/16/12 04:13	1.12
Bromodichloromethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Bromoform	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Bromomethane	**4.8**		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
2-Butanone (MEK)	ND		11	4.5	ppb v/v			05/16/12 04:13	1.12
Carbon disulfide	**4.7**	**J,DX**	11	2.2	ppb v/v			05/16/12 04:13	1.12
Carbon tetrachloride	ND	LQ	11	4.5	ppb v/v			05/16/12 04:13	1.12
Chlorobenzene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Dibromochloromethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Chloroethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Chloroform	**13**		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Chloromethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,2-Dibromoethane (EDB)	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,2-Dichlorobenzene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,3-Dichlorobenzene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,4-Dichlorobenzene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Dichlorodifluoromethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,1-Dichloroethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,2-Dichloroethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,1-Dichloroethene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
cis-1,2-Dichloroethene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
trans-1,2-Dichloroethene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,2-Dichloropropane	ND		5.6	2.2	ppb v/v			05/16/12 04:13	1.12
cis-1,3-Dichloropropene	ND		5.6	2.2	ppb v/v			05/16/12 04:13	1.12
trans-1,3-Dichloropropene	ND		11	4.5	ppb v/v			05/16/12 04:13	1.12
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Ethylbenzene	**24**		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
4-Ethyltoluene	**3.0**	**J,DX**	4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Hexachlorobutadiene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
2-Hexanone	ND		11	2.2	ppb v/v			05/16/12 04:13	1.12
Methylene chloride	**3.7**	**J,DX**	4.5	2.2	ppb v/v			05/16/12 04:13	1.12
4-Methyl-2-pentanone (MIBK)	ND		11	2.2	ppb v/v			05/16/12 04:13	1.12
Styrene	**140**		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,1,2,2-Tetrachloroethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Tetrachloroethene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Toluene	**9.5**		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,2,4-Trichlorobenzene	ND		5.6	2.8	ppb v/v			05/16/12 04:13	1.12
1,1,1-Trichloroethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,1,2-Trichloroethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Trichloroethene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Trichlorofluoromethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-4
Date Collected: 05/11/12 11:36
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-4
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
1,2,4-Trimethylbenzene	ND		5.6	2.2	ppb v/v			05/16/12 04:13	1.12
1,3,5-Trimethylbenzene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
Vinyl acetate	ND		11	4.5	ppb v/v			05/16/12 04:13	1.12
Vinyl chloride	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
m,p-Xylene	**7.1**		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
o-Xylene	ND		4.5	2.2	ppb v/v			05/16/12 04:13	1.12
2-Propanol	**240**		22	11	ppb v/v			05/16/12 04:13	1.12

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**150**		27	11	ug/m3			05/16/12 04:13	1.12
Benzene	ND		14	7.2	ug/m3			05/16/12 04:13	1.12
Benzyl chloride	ND		58	23	ug/m3			05/16/12 04:13	1.12
Bromodichloromethane	ND		30	15	ug/m3			05/16/12 04:13	1.12
Bromoform	ND		46	23	ug/m3			05/16/12 04:13	1.12
Bromomethane	**19**		17	8.7	ug/m3			05/16/12 04:13	1.12
2-Butanone (MEK)	ND		33	13	ug/m3			05/16/12 04:13	1.12
Carbon disulfide	**15**	**J,DX**	35	7.0	ug/m3			05/16/12 04:13	1.12
Carbon tetrachloride	ND	LQ	70	28	ug/m3			05/16/12 04:13	1.12
Chlorobenzene	ND		21	10	ug/m3			05/16/12 04:13	1.12
Dibromochloromethane	ND		38	19	ug/m3			05/16/12 04:13	1.12
Chloroethane	ND		12	5.9	ug/m3			05/16/12 04:13	1.12
Chloroform	**65**		22	11	ug/m3			05/16/12 04:13	1.12
Chloromethane	ND		9.3	4.6	ug/m3			05/16/12 04:13	1.12
1,2-Dibromoethane (EDB)	ND		34	17	ug/m3			05/16/12 04:13	1.12
1,2-Dichlorobenzene	ND		27	13	ug/m3			05/16/12 04:13	1.12
1,3-Dichlorobenzene	ND		27	13	ug/m3			05/16/12 04:13	1.12
1,4-Dichlorobenzene	ND		27	13	ug/m3			05/16/12 04:13	1.12
Dichlorodifluoromethane	ND		22	11	ug/m3			05/16/12 04:13	1.12
1,1-Dichloroethane	ND		18	9.1	ug/m3			05/16/12 04:13	1.12
1,2-Dichloroethane	ND		18	9.1	ug/m3			05/16/12 04:13	1.12
1,1-Dichloroethene	ND		18	8.9	ug/m3			05/16/12 04:13	1.12
cis-1,2-Dichloroethene	ND		18	8.9	ug/m3			05/16/12 04:13	1.12
trans-1,2-Dichloroethene	ND		18	8.9	ug/m3			05/16/12 04:13	1.12
1,2-Dichloropropane	ND		26	10	ug/m3			05/16/12 04:13	1.12
cis-1,3-Dichloropropene	ND		25	10	ug/m3			05/16/12 04:13	1.12
trans-1,3-Dichloropropene	ND		51	20	ug/m3			05/16/12 04:13	1.12
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		31	16	ug/m3			05/16/12 04:13	1.12
Ethylbenzene	**110**		19	9.7	ug/m3			05/16/12 04:13	1.12
4-Ethyltoluene	**15**	**J,DX**	22	11	ug/m3			05/16/12 04:13	1.12
Hexachlorobutadiene	ND		48	24	ug/m3			05/16/12 04:13	1.12
2-Hexanone	ND		46	9.2	ug/m3			05/16/12 04:13	1.12
Methylene chloride	**13**	**J,DX**	16	7.8	ug/m3			05/16/12 04:13	1.12
4-Methyl-2-pentanone (MIBK)	ND		46	9.2	ug/m3			05/16/12 04:13	1.12
Styrene	**610**		19	9.5	ug/m3			05/16/12 04:13	1.12
1,1,2,2-Tetrachloroethane	ND		31	15	ug/m3			05/16/12 04:13	1.12
Tetrachloroethene	ND		30	15	ug/m3			05/16/12 04:13	1.12
Toluene	**36**		17	8.4	ug/m3			05/16/12 04:13	1.12
1,2,4-Trichlorobenzene	ND		42	21	ug/m3			05/16/12 04:13	1.12
1,1,1-Trichloroethane	ND		24	12	ug/m3			05/16/12 04:13	1.12
1,1,2-Trichloroethane	ND		24	12	ug/m3			05/16/12 04:13	1.12

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-4
Date Collected: 05/11/12 11:36
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-4
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		24	12	ug/m3			05/16/12 04:13	1.12
Trichlorofluoromethane	ND		25	13	ug/m3			05/16/12 04:13	1.12
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		34	17	ug/m3			05/16/12 04:13	1.12
1,2,4-Trimethylbenzene	ND		28	11	ug/m3			05/16/12 04:13	1.12
1,3,5-Trimethylbenzene	ND		22	11	ug/m3			05/16/12 04:13	1.12
Vinyl acetate	ND		39	16	ug/m3			05/16/12 04:13	1.12
Vinyl chloride	ND		11	5.7	ug/m3			05/16/12 04:13	1.12
m,p-Xylene	**31**		19	9.7	ug/m3			05/16/12 04:13	1.12
o-Xylene	ND		19	9.7	ug/m3			05/16/12 04:13	1.12
2-Propanol	**590**		55	28	ug/m3			05/16/12 04:13	1.12

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*05/16/12 04:13*	*1.12*
1,2-Dichloroethane-d4 (Surr)	*126*		*70 - 130*		*05/16/12 04:13*	*1.12*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/16/12 04:13*	*1.12*

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-6

Lab Sample ID: 340-1952-5

Date Collected: 05/11/12 12:56

Matrix: Air

Date Received: 05/14/12 10:00

Sample Container: Summa Canister 1L

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide (TCD)	**2.9**		0.021	0.0041	% v/v			05/15/12 15:34	2.06
Methane (FID)	ND		0.00041	0.00012	% v/v			05/15/12 15:34	2.06
Nitrogen	**79**		2.1	1.0	% v/v			05/15/12 15:34	2.06
Oxygen	**19**		0.41	0.062	% v/v			05/15/12 15:34	2.06

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**26**		10	4.1	ppb v/v			05/16/12 05:04	1.02
Benzene	**4.1**		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Benzyl chloride	ND		10	4.1	ppb v/v			05/16/12 05:04	1.02
Bromodichloromethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Bromoform	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Bromomethane	**2.5**	**J,DX**	4.1	2.0	ppb v/v			05/16/12 05:04	1.02
2-Butanone (MEK)	ND		10	4.1	ppb v/v			05/16/12 05:04	1.02
Carbon disulfide	ND		10	2.0	ppb v/v			05/16/12 05:04	1.02
Carbon tetrachloride	ND	LQ	10	4.1	ppb v/v			05/16/12 05:04	1.02
Chlorobenzene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Dibromochloromethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Chloroethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Chloroform	**15**		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Chloromethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,2-Dibromoethane (EDB)	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,2-Dichlorobenzene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,3-Dichlorobenzene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,4-Dichlorobenzene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Dichlorodifluoromethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,1-Dichloroethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,2-Dichloroethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,1-Dichloroethene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
cis-1,2-Dichloroethene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
trans-1,2-Dichloroethene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,2-Dichloropropane	ND		5.1	2.0	ppb v/v			05/16/12 05:04	1.02
cis-1,3-Dichloropropene	ND		5.1	2.0	ppb v/v			05/16/12 05:04	1.02
trans-1,3-Dichloropropene	ND		10	4.1	ppb v/v			05/16/12 05:04	1.02
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Ethylbenzene	**20**		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
4-Ethyltoluene	**28**		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Hexachlorobutadiene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
2-Hexanone	ND		10	2.0	ppb v/v			05/16/12 05:04	1.02
Methylene chloride	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
4-Methyl-2-pentanone (MIBK)	ND		10	2.0	ppb v/v			05/16/12 05:04	1.02
Styrene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,1,2,2-Tetrachloroethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Tetrachloroethene	**7.8**		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Toluene	**72**		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,2,4-Trichlorobenzene	ND		5.1	2.6	ppb v/v			05/16/12 05:04	1.02
1,1,1-Trichloroethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,1,2-Trichloroethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Trichloroethene	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Trichlorofluoromethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-6
Date Collected: 05/11/12 12:56
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-5
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,2,4-Trimethylbenzene	**25**		5.1	2.0	ppb v/v			05/16/12 05:04	1.02
1,3,5-Trimethylbenzene	**6.8**		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
Vinyl acetate	ND		10	4.1	ppb v/v			05/16/12 05:04	1.02
Vinyl chloride	ND		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
m,p-Xylene	**88**		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
o-Xylene	**28**		4.1	2.0	ppb v/v			05/16/12 05:04	1.02
2-Propanol	ND		20	10	ppb v/v			05/16/12 05:04	1.02

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**61**		24	9.7	ug/m3			05/16/12 05:04	1.02
Benzene	**13**		13	6.5	ug/m3			05/16/12 05:04	1.02
Benzyl chloride	ND		53	21	ug/m3			05/16/12 05:04	1.02
Bromodichloromethane	ND		27	14	ug/m3			05/16/12 05:04	1.02
Bromoform	ND		42	21	ug/m3			05/16/12 05:04	1.02
Bromomethane	**9.7**	**J,DX**	16	7.9	ug/m3			05/16/12 05:04	1.02
2-Butanone (MEK)	ND		30	12	ug/m3			05/16/12 05:04	1.02
Carbon disulfide	ND		32	6.4	ug/m3			05/16/12 05:04	1.02
Carbon tetrachloride	ND	LQ	64	26	ug/m3			05/16/12 05:04	1.02
Chlorobenzene	ND		19	9.4	ug/m3			05/16/12 05:04	1.02
Dibromochloromethane	ND		35	17	ug/m3			05/16/12 05:04	1.02
Chloroethane	ND		11	5.4	ug/m3			05/16/12 05:04	1.02
Chloroform	**72**		20	10	ug/m3			05/16/12 05:04	1.02
Chloromethane	ND		8.4	4.2	ug/m3			05/16/12 05:04	1.02
1,2-Dibromoethane (EDB)	ND		31	16	ug/m3			05/16/12 05:04	1.02
1,2-Dichlorobenzene	ND		25	12	ug/m3			05/16/12 05:04	1.02
1,3-Dichlorobenzene	ND		25	12	ug/m3			05/16/12 05:04	1.02
1,4-Dichlorobenzene	ND		25	12	ug/m3			05/16/12 05:04	1.02
Dichlorodifluoromethane	ND		20	10	ug/m3			05/16/12 05:04	1.02
1,1-Dichloroethane	ND		17	8.3	ug/m3			05/16/12 05:04	1.02
1,2-Dichloroethane	ND		17	8.3	ug/m3			05/16/12 05:04	1.02
1,1-Dichloroethene	ND		16	8.1	ug/m3			05/16/12 05:04	1.02
cis-1,2-Dichloroethene	ND		16	8.1	ug/m3			05/16/12 05:04	1.02
trans-1,2-Dichloroethene	ND		16	8.1	ug/m3			05/16/12 05:04	1.02
1,2-Dichloropropane	ND		24	9.4	ug/m3			05/16/12 05:04	1.02
cis-1,3-Dichloropropene	ND		23	9.3	ug/m3			05/16/12 05:04	1.02
trans-1,3-Dichloropropene	ND		46	19	ug/m3			05/16/12 05:04	1.02
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		29	14	ug/m3			05/16/12 05:04	1.02
Ethylbenzene	**85**		18	8.9	ug/m3			05/16/12 05:04	1.02
4-Ethyltoluene	**140**		20	10	ug/m3			05/16/12 05:04	1.02
Hexachlorobutadiene	ND		44	22	ug/m3			05/16/12 05:04	1.02
2-Hexanone	ND		42	8.4	ug/m3			05/16/12 05:04	1.02
Methylene chloride	ND		14	7.1	ug/m3			05/16/12 05:04	1.02
4-Methyl-2-pentanone (MIBK)	ND		42	8.4	ug/m3			05/16/12 05:04	1.02
Styrene	ND		17	8.7	ug/m3			05/16/12 05:04	1.02
1,1,2,2-Tetrachloroethane	ND		28	14	ug/m3			05/16/12 05:04	1.02
Tetrachloroethene	**53**		28	14	ug/m3			05/16/12 05:04	1.02
Toluene	**270**		15	7.7	ug/m3			05/16/12 05:04	1.02
1,2,4-Trichlorobenzene	ND		38	19	ug/m3			05/16/12 05:04	1.02
1,1,1-Trichloroethane	ND		22	11	ug/m3			05/16/12 05:04	1.02
1,1,2-Trichloroethane	ND		22	11	ug/m3			05/16/12 05:04	1.02

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-6
Date Collected: 05/11/12 12:56
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-5
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		22	11	ug/m3			05/16/12 05:04	1.02
Trichlorofluoromethane	ND		23	11	ug/m3			05/16/12 05:04	1.02
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		31	16	ug/m3			05/16/12 05:04	1.02
1,2,4-Trimethylbenzene	**120**		25	10	ug/m3			05/16/12 05:04	1.02
1,3,5-Trimethylbenzene	**33**		20	10	ug/m3			05/16/12 05:04	1.02
Vinyl acetate	ND		36	14	ug/m3			05/16/12 05:04	1.02
Vinyl chloride	ND		10	5.2	ug/m3			05/16/12 05:04	1.02
m,p-Xylene	**380**		18	8.9	ug/m3			05/16/12 05:04	1.02
o-Xylene	**120**		18	8.9	ug/m3			05/16/12 05:04	1.02
2-Propanol	ND		50	25	ug/m3			05/16/12 05:04	1.02

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*05/16/12 05:04*	*1.02*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*05/16/12 05:04*	*1.02*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/16/12 05:04*	*1.02*

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-7
Date Collected: 05/11/12 13:30
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-6
Matrix: Air

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide (FID)	**0.18**		0.021	0.0042	% v/v			05/15/12 15:57	2.11
Methane (FID)	ND		0.00042	0.00013	% v/v			05/15/12 15:57	2.11
Nitrogen	**79**		2.1	1.1	% v/v			05/15/12 15:57	2.11
Oxygen	**22**		0.42	0.063	% v/v			05/15/12 15:57	2.11

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**22**		11	4.4	ppb v/v			05/16/12 05:53	1.09
Benzene	**2.4**	**J,DX**	4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Benzyl chloride	ND		11	4.4	ppb v/v			05/16/12 05:53	1.09
Bromodichloromethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Bromoform	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Bromomethane	**3.5**	**J,DX**	4.4	2.2	ppb v/v			05/16/12 05:53	1.09
2-Butanone (MEK)	ND		11	4.4	ppb v/v			05/16/12 05:53	1.09
Carbon disulfide	ND		11	2.2	ppb v/v			05/16/12 05:53	1.09
Carbon tetrachloride	ND	LQ	11	4.4	ppb v/v			05/16/12 05:53	1.09
Chlorobenzene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Dibromochloromethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Chloroethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Chloroform	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Chloromethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,2-Dibromoethane (EDB)	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,2-Dichlorobenzene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,3-Dichlorobenzene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,4-Dichlorobenzene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Dichlorodifluoromethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,1-Dichloroethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,2-Dichloroethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,1-Dichloroethene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
cis-1,2-Dichloroethene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
trans-1,2-Dichloroethene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,2-Dichloropropane	ND		5.5	2.2	ppb v/v			05/16/12 05:53	1.09
cis-1,3-Dichloropropene	ND		5.5	2.2	ppb v/v			05/16/12 05:53	1.09
trans-1,3-Dichloropropene	ND		11	4.4	ppb v/v			05/16/12 05:53	1.09
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Ethylbenzene	**13**		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
4-Ethyltoluene	**21**		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Hexachlorobutadiene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
2-Hexanone	ND		11	2.2	ppb v/v			05/16/12 05:53	1.09
Methylene chloride	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
4-Methyl-2-pentanone (MIBK)	ND		11	2.2	ppb v/v			05/16/12 05:53	1.09
Styrene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,1,2,2-Tetrachloroethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Tetrachloroethene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Toluene	**43**		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,2,4-Trichlorobenzene	ND		5.5	2.7	ppb v/v			05/16/12 05:53	1.09
1,1,1-Trichloroethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,1,2-Trichloroethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Trichloroethene	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Trichlorofluoromethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-7
Date Collected: 05/11/12 13:30
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-6
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
1,2,4-Trimethylbenzene	**20**		5.5	2.2	ppb v/v			05/16/12 05:53	1.09
1,3,5-Trimethylbenzene	**5.3**		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
Vinyl acetate	ND		11	4.4	ppb v/v			05/16/12 05:53	1.09
Vinyl chloride	ND		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
m,p-Xylene	**61**		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
o-Xylene	**19**		4.4	2.2	ppb v/v			05/16/12 05:53	1.09
2-Propanol	ND		22	11	ppb v/v			05/16/12 05:53	1.09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**51**		26	10	ug/m3			05/16/12 05:53	1.09
Benzene	**7.8**	**J,DX**	14	7.0	ug/m3			05/16/12 05:53	1.09
Benzyl chloride	ND		56	23	ug/m3			05/16/12 05:53	1.09
Bromodichloromethane	ND		29	15	ug/m3			05/16/12 05:53	1.09
Bromoform	ND		45	23	ug/m3			05/16/12 05:53	1.09
Bromomethane	**14**	**J,DX**	17	8.5	ug/m3			05/16/12 05:53	1.09
2-Butanone (MEK)	ND		32	13	ug/m3			05/16/12 05:53	1.09
Carbon disulfide	ND		34	6.8	ug/m3			05/16/12 05:53	1.09
Carbon tetrachloride	ND	LQ	69	27	ug/m3			05/16/12 05:53	1.09
Chlorobenzene	ND		20	10	ug/m3			05/16/12 05:53	1.09
Dibromochloromethane	ND		37	19	ug/m3			05/16/12 05:53	1.09
Chloroethane	ND		12	5.8	ug/m3			05/16/12 05:53	1.09
Chloroform	ND		21	11	ug/m3			05/16/12 05:53	1.09
Chloromethane	ND		9.0	4.5	ug/m3			05/16/12 05:53	1.09
1,2-Dibromoethane (EDB)	ND		34	17	ug/m3			05/16/12 05:53	1.09
1,2-Dichlorobenzene	ND		26	13	ug/m3			05/16/12 05:53	1.09
1,3-Dichlorobenzene	ND		26	13	ug/m3			05/16/12 05:53	1.09
1,4-Dichlorobenzene	ND		26	13	ug/m3			05/16/12 05:53	1.09
Dichlorodifluoromethane	ND		22	11	ug/m3			05/16/12 05:53	1.09
1,1-Dichloroethane	ND		18	8.8	ug/m3			05/16/12 05:53	1.09
1,2-Dichloroethane	ND		18	8.8	ug/m3			05/16/12 05:53	1.09
1,1-Dichloroethene	ND		17	8.6	ug/m3			05/16/12 05:53	1.09
cis-1,2-Dichloroethene	ND		17	8.6	ug/m3			05/16/12 05:53	1.09
trans-1,2-Dichloroethene	ND		17	8.6	ug/m3			05/16/12 05:53	1.09
1,2-Dichloropropane	ND		25	10	ug/m3			05/16/12 05:53	1.09
cis-1,3-Dichloropropene	ND		25	9.9	ug/m3			05/16/12 05:53	1.09
trans-1,3-Dichloropropene	ND		49	20	ug/m3			05/16/12 05:53	1.09
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		30	15	ug/m3			05/16/12 05:53	1.09
Ethylbenzene	**56**		19	9.5	ug/m3			05/16/12 05:53	1.09
4-Ethyltoluene	**110**		21	11	ug/m3			05/16/12 05:53	1.09
Hexachlorobutadiene	ND		46	23	ug/m3			05/16/12 05:53	1.09
2-Hexanone	ND		45	8.9	ug/m3			05/16/12 05:53	1.09
Methylene chloride	ND		15	7.6	ug/m3			05/16/12 05:53	1.09
4-Methyl-2-pentanone (MIBK)	ND		45	8.9	ug/m3			05/16/12 05:53	1.09
Styrene	ND		19	9.3	ug/m3			05/16/12 05:53	1.09
1,1,2,2-Tetrachloroethane	ND		30	15	ug/m3			05/16/12 05:53	1.09
Tetrachloroethene	ND		30	15	ug/m3			05/16/12 05:53	1.09
Toluene	**160**		16	8.2	ug/m3			05/16/12 05:53	1.09
1,2,4-Trichlorobenzene	ND		40	20	ug/m3			05/16/12 05:53	1.09
1,1,1-Trichloroethane	ND		24	12	ug/m3			05/16/12 05:53	1.09
1,1,2-Trichloroethane	ND		24	12	ug/m3			05/16/12 05:53	1.09

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-7
Date Collected: 05/11/12 13:30
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-6
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		23	12	ug/m3			05/16/12 05:53	1.09
Trichlorofluoromethane	ND		24	12	ug/m3			05/16/12 05:53	1.09
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		33	17	ug/m3			05/16/12 05:53	1.09
1,2,4-Trimethylbenzene	**97**		27	11	ug/m3			05/16/12 05:53	1.09
1,3,5-Trimethylbenzene	**26**		21	11	ug/m3			05/16/12 05:53	1.09
Vinyl acetate	ND		38	15	ug/m3			05/16/12 05:53	1.09
Vinyl chloride	ND		11	5.6	ug/m3			05/16/12 05:53	1.09
m,p-Xylene	**270**		19	9.5	ug/m3			05/16/12 05:53	1.09
o-Xylene	**84**		19	9.5	ug/m3			05/16/12 05:53	1.09
2-Propanol	ND		54	27	ug/m3			05/16/12 05:53	1.09

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*05/16/12 05:53*	*1.09*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*		*05/16/12 05:53*	*1.09*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/16/12 05:53*	*1.09*

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-8

Lab Sample ID: 340-1952-7

Date Collected: 05/11/12 13:48

Matrix: Air

Date Received: 05/14/12 10:00

Sample Container: Summa Canister 1L

Method: D1946 - Fixed Gases in Air (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide (FID)	**0.20**		0.020	0.0040	% v/v			05/15/12 16:14	2.02
Methane (FID)	**0.00022**	**J,DX**	0.00040	0.00012	% v/v			05/15/12 16:14	2.02
Nitrogen	**78**		2.0	1.0	% v/v			05/15/12 16:14	2.02
Oxygen	**21**		0.40	0.061	% v/v			05/15/12 16:14	2.02

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**23**		10	4.1	ppb v/v			05/16/12 06:42	1.03
Benzene	**4.2**		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Benzyl chloride	ND		10	4.1	ppb v/v			05/16/12 06:42	1.03
Bromodichloromethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Bromoform	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Bromomethane	**2.7**	**J,DX**	4.1	2.1	ppb v/v			05/16/12 06:42	1.03
2-Butanone (MEK)	ND		10	4.1	ppb v/v			05/16/12 06:42	1.03
Carbon disulfide	ND		10	2.1	ppb v/v			05/16/12 06:42	1.03
Carbon tetrachloride	ND	LQ	10	4.1	ppb v/v			05/16/12 06:42	1.03
Chlorobenzene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Dibromochloromethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Chloroethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Chloroform	**4.6**		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Chloromethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,2-Dibromoethane (EDB)	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,2-Dichlorobenzene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,3-Dichlorobenzene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,4-Dichlorobenzene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Dichlorodifluoromethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,1-Dichloroethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,2-Dichloroethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,1-Dichloroethene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
cis-1,2-Dichloroethene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
trans-1,2-Dichloroethene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,2-Dichloropropane	ND		5.2	2.1	ppb v/v			05/16/12 06:42	1.03
cis-1,3-Dichloropropene	ND		5.2	2.1	ppb v/v			05/16/12 06:42	1.03
trans-1,3-Dichloropropene	ND		10	4.1	ppb v/v			05/16/12 06:42	1.03
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Ethylbenzene	**19**		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
4-Ethyltoluene	**28**		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Hexachlorobutadiene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
2-Hexanone	ND		10	2.1	ppb v/v			05/16/12 06:42	1.03
Methylene chloride	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ppb v/v			05/16/12 06:42	1.03
Styrene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,1,2,2-Tetrachloroethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Tetrachloroethene	**4.2**		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Toluene	**66**		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,2,4-Trichlorobenzene	ND		5.2	2.6	ppb v/v			05/16/12 06:42	1.03
1,1,1-Trichloroethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,1,2-Trichloroethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Trichloroethene	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Trichlorofluoromethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-8
Date Collected: 05/11/12 13:48
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-7
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
1,2,4-Trimethylbenzene	**25**		5.2	2.1	ppb v/v			05/16/12 06:42	1.03
1,3,5-Trimethylbenzene	**6.5**		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
Vinyl acetate	ND		10	4.1	ppb v/v			05/16/12 06:42	1.03
Vinyl chloride	ND		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
m,p-Xylene	**84**		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
o-Xylene	**27**		4.1	2.1	ppb v/v			05/16/12 06:42	1.03
2-Propanol	ND		21	10	ppb v/v			05/16/12 06:42	1.03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**55**		24	9.8	ug/m3			05/16/12 06:42	1.03
Benzene	**14**		13	6.6	ug/m3			05/16/12 06:42	1.03
Benzyl chloride	ND		53	21	ug/m3			05/16/12 06:42	1.03
Bromodichloromethane	ND		28	14	ug/m3			05/16/12 06:42	1.03
Bromoform	ND		43	21	ug/m3			05/16/12 06:42	1.03
Bromomethane	**11**	**J,DX**	16	8.0	ug/m3			05/16/12 06:42	1.03
2-Butanone (MEK)	ND		30	12	ug/m3			05/16/12 06:42	1.03
Carbon disulfide	ND		32	6.4	ug/m3			05/16/12 06:42	1.03
Carbon tetrachloride	ND	LQ	65	26	ug/m3			05/16/12 06:42	1.03
Chlorobenzene	ND		19	9.5	ug/m3			05/16/12 06:42	1.03
Dibromochloromethane	ND		35	18	ug/m3			05/16/12 06:42	1.03
Chloroethane	ND		11	5.4	ug/m3			05/16/12 06:42	1.03
Chloroform	**22**		20	10	ug/m3			05/16/12 06:42	1.03
Chloromethane	ND		8.5	4.3	ug/m3			05/16/12 06:42	1.03
1,2-Dibromoethane (EDB)	ND		32	16	ug/m3			05/16/12 06:42	1.03
1,2-Dichlorobenzene	ND		25	12	ug/m3			05/16/12 06:42	1.03
1,3-Dichlorobenzene	ND		25	12	ug/m3			05/16/12 06:42	1.03
1,4-Dichlorobenzene	ND		25	12	ug/m3			05/16/12 06:42	1.03
Dichlorodifluoromethane	ND		20	10	ug/m3			05/16/12 06:42	1.03
1,1-Dichloroethane	ND		17	8.3	ug/m3			05/16/12 06:42	1.03
1,2-Dichloroethane	ND		17	8.3	ug/m3			05/16/12 06:42	1.03
1,1-Dichloroethene	ND		16	8.2	ug/m3			05/16/12 06:42	1.03
cis-1,2-Dichloroethene	ND		16	8.2	ug/m3			05/16/12 06:42	1.03
trans-1,2-Dichloroethene	ND		16	8.2	ug/m3			05/16/12 06:42	1.03
1,2-Dichloropropane	ND		24	9.5	ug/m3			05/16/12 06:42	1.03
cis-1,3-Dichloropropene	ND		23	9.3	ug/m3			05/16/12 06:42	1.03
trans-1,3-Dichloropropene	ND		47	19	ug/m3			05/16/12 06:42	1.03
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		29	14	ug/m3			05/16/12 06:42	1.03
Ethylbenzene	**82**		18	8.9	ug/m3			05/16/12 06:42	1.03
4-Ethyltoluene	**140**		20	10	ug/m3			05/16/12 06:42	1.03
Hexachlorobutadiene	ND		44	22	ug/m3			05/16/12 06:42	1.03
2-Hexanone	ND		42	8.4	ug/m3			05/16/12 06:42	1.03
Methylene chloride	ND		14	7.2	ug/m3			05/16/12 06:42	1.03
4-Methyl-2-pentanone (MIBK)	ND		42	8.4	ug/m3			05/16/12 06:42	1.03
Styrene	ND		18	8.8	ug/m3			05/16/12 06:42	1.03
1,1,2,2-Tetrachloroethane	ND		28	14	ug/m3			05/16/12 06:42	1.03
Tetrachloroethene	**28**		28	14	ug/m3			05/16/12 06:42	1.03
Toluene	**250**		16	7.8	ug/m3			05/16/12 06:42	1.03
1,2,4-Trichlorobenzene	ND		38	19	ug/m3			05/16/12 06:42	1.03
1,1,1-Trichloroethane	ND		22	11	ug/m3			05/16/12 06:42	1.03
1,1,2-Trichloroethane	ND		22	11	ug/m3			05/16/12 06:42	1.03

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-8
Date Collected: 05/11/12 13:48
Date Received: 05/14/12 10:00
Sample Container: Summa Canister 1L

Lab Sample ID: 340-1952-7
Matrix: Air

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		22	11	ug/m3			05/16/12 06:42	1.03
Trichlorofluoromethane	ND		23	12	ug/m3			05/16/12 06:42	1.03
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		32	16	ug/m3			05/16/12 06:42	1.03
1,2,4-Trimethylbenzene	**120**		25	10	ug/m3			05/16/12 06:42	1.03
1,3,5-Trimethylbenzene	**32**		20	10	ug/m3			05/16/12 06:42	1.03
Vinyl acetate	ND		36	15	ug/m3			05/16/12 06:42	1.03
Vinyl chloride	ND		11	5.3	ug/m3			05/16/12 06:42	1.03
m,p-Xylene	**370**		18	8.9	ug/m3			05/16/12 06:42	1.03
o-Xylene	**120**		18	8.9	ug/m3			05/16/12 06:42	1.03
2-Propanol	ND		51	25	ug/m3			05/16/12 06:42	1.03

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*05/16/12 06:42*	*1.03*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*05/16/12 06:42*	*1.03*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/16/12 06:42*	*1.03*

Surrogate Summary

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		BFB	12DCE	TOL						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)						
340-1952-1	S-1	102	99	97						
340-1952-2	S-2	100	116	100						
340-1952-3	S-3	101	108	99						
340-1952-4	S-4	102	126	100						
340-1952-5	S-6	100	129	100						
340-1952-6	S-7	102	123	98						
340-1952-7	S-8	102	110	99						
LCS 340-1596/4	Lab Control Sample	101	114	98						
LCSD 340-1596/5	Lab Control Sample Dup	101	86	100						
MB 340-1596/9	Method Blank	99	91	98						

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: D1946 - Fixed Gases in Air (GC)

Lab Sample ID: MB 340-1583/8
Matrix: Air
Analysis Batch: 1583

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide (FID)	ND		0.010	0.0020	% v/v			05/15/12 13:01	1
Methane (FID)	ND		0.00020	0.000060	% v/v			05/15/12 13:01	1
Nitrogen	ND		1.0	0.50	% v/v			05/15/12 13:01	1
Oxygen	ND		0.20	0.030	% v/v			05/15/12 13:01	1

Lab Sample ID: LCS 340-1583/4
Matrix: Air
Analysis Batch: 1583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon Dioxide (TCD)	20.0	21.0		% v/v		105	80 - 120
Methane (TCD)	19.8	20.9		% v/v		105	80 - 120

Lab Sample ID: LCS 340-1583/6
Matrix: Air
Analysis Batch: 1583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon Dioxide (FID)	0.399	0.384		% v/v		96	80 - 120
Methane (FID)	0.0500	0.0509		% v/v		102	80 - 120
Nitrogen	19.9	18.9		% v/v		95	80 - 120
Oxygen	4.98	4.77		% v/v		96	80 - 120

Lab Sample ID: LCSD 340-1583/5
Matrix: Air
Analysis Batch: 1583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon Dioxide (TCD)	20.0	21.0		% v/v		105	80 - 120	0	20
Methane (TCD)	19.8	20.9		% v/v		106	80 - 120	0	20

Lab Sample ID: LCSD 340-1583/7
Matrix: Air
Analysis Batch: 1583

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon Dioxide (FID)	0.399	0.384		% v/v		96	80 - 120	0	20
Methane (FID)	0.0500	0.0509		% v/v		102	80 - 120	0	20
Nitrogen	19.9	18.9		% v/v		95	80 - 120	0	20
Oxygen	4.98	4.78		% v/v		96	80 - 120	0	20

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 340-1596/9
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	4.0	ppb v/v			05/15/12 18:02	1
Benzene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 340-1596/9
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl chloride	ND		10	4.0	ppb v/v			05/15/12 18:02	1
Bromodichloromethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Bromoform	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Bromomethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
2-Butanone (MEK)	ND		10	4.0	ppb v/v			05/15/12 18:02	1
Carbon disulfide	ND		10	2.0	ppb v/v			05/15/12 18:02	1
Carbon tetrachloride	ND		10	4.0	ppb v/v			05/15/12 18:02	1
Chlorobenzene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Dibromochloromethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Chloroethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Chloroform	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Chloromethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,2-Dibromoethane (EDB)	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,2-Dichlorobenzene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,3-Dichlorobenzene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,4-Dichlorobenzene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Dichlorodifluoromethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,1-Dichloroethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,2-Dichloroethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,1-Dichloroethene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
cis-1,2-Dichloroethene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
trans-1,2-Dichloroethene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,2-Dichloropropane	ND		5.0	2.0	ppb v/v			05/15/12 18:02	1
cis-1,3-Dichloropropene	ND		5.0	2.0	ppb v/v			05/15/12 18:02	1
trans-1,3-Dichloropropene	ND		10	4.0	ppb v/v			05/15/12 18:02	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Ethylbenzene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
4-Ethyltoluene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Hexachlorobutadiene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
2-Hexanone	ND		10	2.0	ppb v/v			05/15/12 18:02	1
Methylene chloride	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.0	ppb v/v			05/15/12 18:02	1
Styrene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,1,2,2-Tetrachloroethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Tetrachloroethene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Toluene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,2,4-Trichlorobenzene	ND		5.0	2.5	ppb v/v			05/15/12 18:02	1
1,1,1-Trichloroethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,1,2-Trichloroethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Trichloroethene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Trichlorofluoromethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
1,2,4-Trimethylbenzene	ND		5.0	2.0	ppb v/v			05/15/12 18:02	1
1,3,5-Trimethylbenzene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
Vinyl acetate	ND		10	4.0	ppb v/v			05/15/12 18:02	1
Vinyl chloride	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
m,p-Xylene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
o-Xylene	ND		4.0	2.0	ppb v/v			05/15/12 18:02	1
2-Propanol	ND		20	10	ppb v/v			05/15/12 18:02	1

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 340-1596/9
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		24	9.5	ug/m3			05/15/12 18:02	1
Benzene	ND		13	6.4	ug/m3			05/15/12 18:02	1
Benzyl chloride	ND		52	21	ug/m3			05/15/12 18:02	1
Bromodichloromethane	ND		27	13	ug/m3			05/15/12 18:02	1
Bromoform	ND		41	21	ug/m3			05/15/12 18:02	1
Bromomethane	ND		16	7.8	ug/m3			05/15/12 18:02	1
2-Butanone (MEK)	ND		29	12	ug/m3			05/15/12 18:02	1
Carbon disulfide	ND		31	6.2	ug/m3			05/15/12 18:02	1
Carbon tetrachloride	ND		63	25	ug/m3			05/15/12 18:02	1
Chlorobenzene	ND		18	9.2	ug/m3			05/15/12 18:02	1
Dibromochloromethane	ND		34	17	ug/m3			05/15/12 18:02	1
Chloroethane	ND		11	5.3	ug/m3			05/15/12 18:02	1
Chloroform	ND		20	9.8	ug/m3			05/15/12 18:02	1
Chloromethane	ND		8.3	4.1	ug/m3			05/15/12 18:02	1
1,2-Dibromoethane (EDB)	ND		31	15	ug/m3			05/15/12 18:02	1
1,2-Dichlorobenzene	ND		24	12	ug/m3			05/15/12 18:02	1
1,3-Dichlorobenzene	ND		24	12	ug/m3			05/15/12 18:02	1
1,4-Dichlorobenzene	ND		24	12	ug/m3			05/15/12 18:02	1
Dichlorodifluoromethane	ND		20	9.9	ug/m3			05/15/12 18:02	1
1,1-Dichloroethane	ND		16	8.1	ug/m3			05/15/12 18:02	1
1,2-Dichloroethane	ND		16	8.1	ug/m3			05/15/12 18:02	1
1,1-Dichloroethene	ND		16	7.9	ug/m3			05/15/12 18:02	1
cis-1,2-Dichloroethene	ND		16	7.9	ug/m3			05/15/12 18:02	1
trans-1,2-Dichloroethene	ND		16	7.9	ug/m3			05/15/12 18:02	1
1,2-Dichloropropane	ND		23	9.2	ug/m3			05/15/12 18:02	1
cis-1,3-Dichloropropene	ND		23	9.1	ug/m3			05/15/12 18:02	1
trans-1,3-Dichloropropene	ND		45	18	ug/m3			05/15/12 18:02	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		28	14	ug/m3			05/15/12 18:02	1
Ethylbenzene	ND		17	8.7	ug/m3			05/15/12 18:02	1
4-Ethyltoluene	ND		20	9.8	ug/m3			05/15/12 18:02	1
Hexachlorobutadiene	ND		43	21	ug/m3			05/15/12 18:02	1
2-Hexanone	ND		41	8.2	ug/m3			05/15/12 18:02	1
Methylene chloride	ND		14	6.9	ug/m3			05/15/12 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		41	8.2	ug/m3			05/15/12 18:02	1
Styrene	ND		17	8.5	ug/m3			05/15/12 18:02	1
1,1,2,2-Tetrachloroethane	ND		27	14	ug/m3			05/15/12 18:02	1
Tetrachloroethene	ND		27	14	ug/m3			05/15/12 18:02	1
Toluene	ND		15	7.5	ug/m3			05/15/12 18:02	1
1,2,4-Trichlorobenzene	ND		37	19	ug/m3			05/15/12 18:02	1
1,1,1-Trichloroethane	ND		22	11	ug/m3			05/15/12 18:02	1
1,1,2-Trichloroethane	ND		22	11	ug/m3			05/15/12 18:02	1
Trichloroethene	ND		21	11	ug/m3			05/15/12 18:02	1
Trichlorofluoromethane	ND		22	11	ug/m3			05/15/12 18:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		31	15	ug/m3			05/15/12 18:02	1
1,2,4-Trimethylbenzene	ND		25	9.8	ug/m3			05/15/12 18:02	1
1,3,5-Trimethylbenzene	ND		20	9.8	ug/m3			05/15/12 18:02	1
Vinyl acetate	ND		35	14	ug/m3			05/15/12 18:02	1
Vinyl chloride	ND		10	5.1	ug/m3			05/15/12 18:02	1
m,p-Xylene	ND		17	8.7	ug/m3			05/15/12 18:02	1
o-Xylene	ND		17	8.7	ug/m3			05/15/12 18:02	1

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 340-1596/9
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	ND		49	25	ug/m3			05/15/12 18:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*05/15/12 18:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/15/12 18:02*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/15/12 18:02*	*1*

Lab Sample ID: LCS 340-1596/4
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	53.3		ppb v/v		107	70 - 130
Benzene	50.0	53.6		ppb v/v		107	70 - 130
Benzyl chloride	54.0	46.8		ppb v/v		87	70 - 130
Bromodichloromethane	50.0	50.6		ppb v/v		101	70 - 130
Bromoform	50.0	52.9		ppb v/v		106	70 - 130
Bromomethane	50.0	51.1		ppb v/v		102	70 - 130
2-Butanone (MEK)	53.0	45.7		ppb v/v		86	70 - 130
Carbon disulfide	50.0	54.5		ppb v/v		109	70 - 130
Carbon tetrachloride	50.0	66.8	LQ	ppb v/v		134	70 - 130
Chlorobenzene	53.5	44.5		ppb v/v		83	70 - 130
Dibromochloromethane	57.5	50.7		ppb v/v		88	70 - 130
Chloroethane	50.0	49.0		ppb v/v		98	70 - 130
Chloroform	50.0	46.2		ppb v/v		92	70 - 130
Chloromethane	50.0	48.3		ppb v/v		97	70 - 130
1,2-Dibromoethane (EDB)	50.0	47.8		ppb v/v		96	70 - 130
1,2-Dichlorobenzene	53.5	46.3		ppb v/v		86	70 - 130
1,3-Dichlorobenzene	54.0	46.2		ppb v/v		85	70 - 130
1,4-Dichlorobenzene	50.0	44.1		ppb v/v		88	70 - 130
Dichlorodifluoromethane	50.0	46.2		ppb v/v		92	70 - 130
1,1-Dichloroethane	50.0	47.2		ppb v/v		94	70 - 130
1,2-Dichloroethane	50.0	55.7		ppb v/v		111	70 - 130
1,1-Dichloroethene	50.0	41.2		ppb v/v		82	70 - 130
cis-1,2-Dichloroethene	50.0	46.7		ppb v/v		93	70 - 130
trans-1,2-Dichloroethene	50.0	46.9		ppb v/v		94	70 - 130
1,2-Dichloropropane	50.0	45.0		ppb v/v		90	70 - 130
cis-1,3-Dichloropropene	53.0	54.9		ppb v/v		104	70 - 130
trans-1,3-Dichloropropene	50.0	46.2		ppb v/v		92	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	50.0	46.3		ppb v/v		93	70 - 130
Ethylbenzene	53.0	45.2		ppb v/v		85	70 - 130
4-Ethyltoluene	50.0	50.3		ppb v/v		101	70 - 130
Hexachlorobutadiene	50.0	47.5		ppb v/v		95	70 - 130
2-Hexanone	50.0	45.3		ppb v/v		91	70 - 130
Methylene chloride	50.0	39.9		ppb v/v		80	70 - 130
4-Methyl-2-pentanone (MIBK)	55.0	43.0		ppb v/v		78	70 - 130
Styrene	53.5	47.4		ppb v/v		89	70 - 130
1,1,2,2-Tetrachloroethane	54.0	46.7		ppb v/v		87	70 - 130
Tetrachloroethene	50.0	44.1		ppb v/v		88	70 - 130

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-1596/4
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	44.4		ppb v/v		89	70 - 130
1,2,4-Trichlorobenzene	50.0	46.3		ppb v/v		93	70 - 130
1,1,1-Trichloroethane	50.0	50.7		ppb v/v		101	70 - 130
1,1,2-Trichloroethane	50.0	46.1		ppb v/v		92	70 - 130
Trichloroethene	50.0	45.0		ppb v/v		90	70 - 130
Trichlorofluoromethane	50.0	48.7		ppb v/v		97	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.2		ppb v/v		86	70 - 130
1,2,4-Trimethylbenzene	50.0	45.3		ppb v/v		91	70 - 130
1,3,5-Trimethylbenzene	53.5	44.3		ppb v/v		83	70 - 130
Vinyl acetate	54.0	46.9		ppb v/v		87	70 - 130
Vinyl chloride	50.0	45.4		ppb v/v		91	70 - 130
m,p-Xylene	100	88.4		ppb v/v		88	70 - 130
o-Xylene	54.0	46.9		ppb v/v		87	70 - 130
2-Propanol	54.0	50.8		ppb v/v		94	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	120	127		ug/m3		107	70 - 130
Benzene	160	171		ug/m3		107	70 - 130
Benzyl chloride	280	242		ug/m3		87	70 - 130
Bromodichloromethane	340	339		ug/m3		101	70 - 130
Bromoform	520	547		ug/m3		106	70 - 130
Bromomethane	190	198		ug/m3		102	70 - 130
2-Butanone (MEK)	160	135		ug/m3		86	70 - 130
Carbon disulfide	160	170		ug/m3		109	70 - 130
Carbon tetrachloride	310	420	LQ	ug/m3		134	70 - 130
Chlorobenzene	250	204		ug/m3		83	70 - 130
Dibromochloromethane	490	432		ug/m3		88	70 - 130
Chloroethane	130	129		ug/m3		98	70 - 130
Chloroform	240	225		ug/m3		92	70 - 130
Chloromethane	100	99.8		ug/m3		97	70 - 130
1,2-Dibromoethane (EDB)	380	368		ug/m3		96	70 - 130
1,2-Dichlorobenzene	320	278		ug/m3		86	70 - 130
1,3-Dichlorobenzene	320	278		ug/m3		85	70 - 130
1,4-Dichlorobenzene	300	265		ug/m3		88	70 - 130
Dichlorodifluoromethane	250	228		ug/m3		92	70 - 130
1,1-Dichloroethane	200	191		ug/m3		94	70 - 130
1,2-Dichloroethane	200	225		ug/m3		111	70 - 130
1,1-Dichloroethene	200	163		ug/m3		82	70 - 130
cis-1,2-Dichloroethene	200	185		ug/m3		93	70 - 130
trans-1,2-Dichloroethene	200	186		ug/m3		94	70 - 130
1,2-Dichloropropane	230	208		ug/m3		90	70 - 130
cis-1,3-Dichloropropene	240	249		ug/m3		104	70 - 130
trans-1,3-Dichloropropene	230	210		ug/m3		92	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	350	323		ug/m3		93	70 - 130
Ethylbenzene	230	196		ug/m3		85	70 - 130
4-Ethyltoluene	250	247		ug/m3		101	70 - 130
Hexachlorobutadiene	530	507		ug/m3		95	70 - 130
2-Hexanone	200	185		ug/m3		91	70 - 130

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-1596/4
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene chloride	170	139		ug/m3		80	70 - 130
4-Methyl-2-pentanone (MIBK)	230	176		ug/m3		78	70 - 130
Styrene	230	202		ug/m3		89	70 - 130
1,1,2,2-Tetrachloroethane	370	321		ug/m3		87	70 - 130
Tetrachloroethene	340	299		ug/m3		88	70 - 130
Toluene	190	167		ug/m3		89	70 - 130
1,2,4-Trichlorobenzene	370	343		ug/m3		93	70 - 130
1,1,1-Trichloroethane	270	277		ug/m3		101	70 - 130
1,1,2-Trichloroethane	270	252		ug/m3		92	70 - 130
Trichloroethene	270	242		ug/m3		90	70 - 130
Trichlorofluoromethane	280	274		ug/m3		97	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	380	331		ug/m3		86	70 - 130
1,2,4-Trimethylbenzene	250	223		ug/m3		91	70 - 130
1,3,5-Trimethylbenzene	260	218		ug/m3		83	70 - 130
Vinyl acetate	190	165		ug/m3		87	70 - 130
Vinyl chloride	130	116		ug/m3		91	70 - 130
m,p-Xylene	430	384		ug/m3		88	70 - 130
o-Xylene	230	204		ug/m3		87	70 - 130
2-Propanol	130	125		ug/m3		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 340-1596/5
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	50.0	54.2		ppb v/v		108	70 - 130	2	25
Benzene	50.0	43.1		ppb v/v		86	70 - 130	22	25
Benzyl chloride	54.0	48.1		ppb v/v		89	70 - 130	3	25
Bromodichloromethane	50.0	52.8		ppb v/v		106	70 - 130	4	25
Bromoform	50.0	54.8		ppb v/v		110	70 - 130	4	25
Bromomethane	50.0	48.2		ppb v/v		96	70 - 130	6	25
2-Butanone (MEK)	53.0	48.2		ppb v/v		91	70 - 130	5	25
Carbon disulfide	50.0	54.4		ppb v/v		109	70 - 130	0	25
Carbon tetrachloride	50.0	67.6	LQ	ppb v/v		135	70 - 130	1	25
Chlorobenzene	53.5	44.9		ppb v/v		84	70 - 130	1	25
Dibromochloromethane	57.5	54.1		ppb v/v		94	70 - 130	6	25
Chloroethane	50.0	48.4		ppb v/v		97	70 - 130	1	25
Chloroform	50.0	46.4		ppb v/v		93	70 - 130	0	25
Chloromethane	50.0	47.2		ppb v/v		94	70 - 130	2	25
1,2-Dibromoethane (EDB)	50.0	50.5		ppb v/v		101	70 - 130	5	25
1,2-Dichlorobenzene	53.5	47.4		ppb v/v		89	70 - 130	2	25
1,3-Dichlorobenzene	54.0	46.5		ppb v/v		86	70 - 130	1	25
1,4-Dichlorobenzene	50.0	46.1		ppb v/v		92	70 - 130	4	25
Dichlorodifluoromethane	50.0	44.5		ppb v/v		89	70 - 130	4	25

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-1596/5
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	48.0		ppb v/v		96	70 - 130	2	25
1,2-Dichloroethane	50.0	44.2		ppb v/v		88	70 - 130	23	25
1,1-Dichloroethene	50.0	39.4		ppb v/v		79	70 - 130	4	25
cis-1,2-Dichloroethene	50.0	47.0		ppb v/v		94	70 - 130	1	25
trans-1,2-Dichloroethene	50.0	48.4		ppb v/v		97	70 - 130	3	25
1,2-Dichloropropane	50.0	45.9		ppb v/v		92	70 - 130	2	25
cis-1,3-Dichloropropene	53.0	58.0		ppb v/v		110	70 - 130	5	25
trans-1,3-Dichloropropene	50.0	51.1		ppb v/v		102	70 - 130	10	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	50.0	44.0		ppb v/v		88	70 - 130	5	25
Ethylbenzene	53.0	46.7		ppb v/v		88	70 - 130	3	25
4-Ethyltoluene	50.0	50.4		ppb v/v		101	70 - 130	0	25
Hexachlorobutadiene	50.0	49.3		ppb v/v		99	70 - 130	4	25
2-Hexanone	50.0	48.5		ppb v/v		97	70 - 130	7	25
Methylene chloride	50.0	38.4		ppb v/v		77	70 - 130	4	25
4-Methyl-2-pentanone (MIBK)	55.0	45.2		ppb v/v		82	70 - 130	5	25
Styrene	53.5	48.1		ppb v/v		90	70 - 130	1	25
1,1,2,2-Tetrachloroethane	54.0	47.8		ppb v/v		89	70 - 130	2	25
Tetrachloroethene	50.0	45.6		ppb v/v		91	70 - 130	3	25
Toluene	50.0	43.8		ppb v/v		88	70 - 130	1	25
1,2,4-Trichlorobenzene	50.0	48.3		ppb v/v		97	70 - 130	4	25
1,1,1-Trichloroethane	50.0	50.8		ppb v/v		102	70 - 130	0	25
1,1,2-Trichloroethane	50.0	47.6		ppb v/v		95	70 - 130	3	25
Trichloroethene	50.0	45.1		ppb v/v		90	70 - 130	0	25
Trichlorofluoromethane	50.0	47.2		ppb v/v		94	70 - 130	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.3		ppb v/v		85	70 - 130	2	25
1,2,4-Trimethylbenzene	50.0	45.1		ppb v/v		90	70 - 130	1	25
1,3,5-Trimethylbenzene	53.5	45.8		ppb v/v		86	70 - 130	3	25
Vinyl acetate	54.0	52.8		ppb v/v		98	70 - 130	12	25
Vinyl chloride	50.0	44.1		ppb v/v		88	70 - 130	3	25
m,p-Xylene	100	92.3		ppb v/v		92	70 - 130	4	25
o-Xylene	54.0	47.2		ppb v/v		87	70 - 130	1	25
2-Propanol	54.0	60.5		ppb v/v		112	70 - 130	18	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	120	129		ug/m3		108	70 - 130	2	25
Benzene	160	138		ug/m3		86	70 - 130	22	25
Benzyl chloride	280	249		ug/m3		89	70 - 130	3	25
Bromodichloromethane	340	353		ug/m3		106	70 - 130	4	25
Bromoform	520	567		ug/m3		110	70 - 130	4	25
Bromomethane	190	187		ug/m3		96	70 - 130	6	25
2-Butanone (MEK)	160	142		ug/m3		91	70 - 130	5	25
Carbon disulfide	160	169		ug/m3		109	70 - 130	0	25
Carbon tetrachloride	310	425	LQ	ug/m3		135	70 - 130	1	25
Chlorobenzene	250	206		ug/m3		84	70 - 130	1	25
Dibromochloromethane	490	461		ug/m3		94	70 - 130	6	25
Chloroethane	130	128		ug/m3		97	70 - 130	1	25
Chloroform	240	227		ug/m3		93	70 - 130	0	25
Chloromethane	100	97.5		ug/m3		94	70 - 130	2	25

Method: TO-15 MOD - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-1596/5
Matrix: Air
Analysis Batch: 1596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	380	388		ug/m3		101	70 - 130	5	25
1,2-Dichlorobenzene	320	285		ug/m3		89	70 - 130	2	25
1,3-Dichlorobenzene	320	280		ug/m3		86	70 - 130	1	25
1,4-Dichlorobenzene	300	277		ug/m3		92	70 - 130	4	25
Dichlorodifluoromethane	250	220		ug/m3		89	70 - 130	4	25
1,1-Dichloroethane	200	194		ug/m3		96	70 - 130	2	25
1,2-Dichloroethane	200	179		ug/m3		88	70 - 130	23	25
1,1-Dichloroethene	200	156		ug/m3		79	70 - 130	4	25
cis-1,2-Dichloroethene	200	186		ug/m3		94	70 - 130	1	25
trans-1,2-Dichloroethene	200	192		ug/m3		97	70 - 130	3	25
1,2-Dichloropropane	230	212		ug/m3		92	70 - 130	2	25
cis-1,3-Dichloropropene	240	263		ug/m3		110	70 - 130	5	25
trans-1,3-Dichloropropene	230	232		ug/m3		102	70 - 130	10	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	350	307		ug/m3		88	70 - 130	5	25
Ethylbenzene	230	203		ug/m3		88	70 - 130	3	25
4-Ethyltoluene	250	248		ug/m3		101	70 - 130	0	25
Hexachlorobutadiene	530	526		ug/m3		99	70 - 130	4	25
2-Hexanone	200	199		ug/m3		97	70 - 130	7	25
Methylene chloride	170	133		ug/m3		77	70 - 130	4	25
4-Methyl-2-pentanone (MIBK)	230	185		ug/m3		82	70 - 130	5	25
Styrene	230	205		ug/m3		90	70 - 130	1	25
1,1,2,2-Tetrachloroethane	370	328		ug/m3		89	70 - 130	2	25
Tetrachloroethene	340	309		ug/m3		91	70 - 130	3	25
Toluene	190	165		ug/m3		88	70 - 130	1	25
1,2,4-Trichlorobenzene	370	359		ug/m3		97	70 - 130	4	25
1,1,1-Trichloroethane	270	277		ug/m3		102	70 - 130	0	25
1,1,2-Trichloroethane	270	260		ug/m3		95	70 - 130	3	25
Trichloroethene	270	242		ug/m3		90	70 - 130	0	25
Trichlorofluoromethane	280	265		ug/m3		94	70 - 130	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	380	324		ug/m3		85	70 - 130	2	25
1,2,4-Trimethylbenzene	250	222		ug/m3		90	70 - 130	1	25
1,3,5-Trimethylbenzene	260	225		ug/m3		86	70 - 130	3	25
Vinyl acetate	190	186		ug/m3		98	70 - 130	12	25
Vinyl chloride	130	113		ug/m3		88	70 - 130	3	25
m,p-Xylene	430	401		ug/m3		92	70 - 130	4	25
o-Xylene	230	205		ug/m3		87	70 - 130	1	25
2-Propanol	130	149		ug/m3		112	70 - 130	18	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

GC VOA

Analysis Batch: 1583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
340-1952-1	S-1	Total/NA	Air	D1946	
340-1952-2	S-2	Total/NA	Air	D1946	
340-1952-3	S-3	Total/NA	Air	D1946	
340-1952-4	S-4	Total/NA	Air	D1946	
340-1952-5	S-6	Total/NA	Air	D1946	
340-1952-6	S-7	Total/NA	Air	D1946	
340-1952-7	S-8	Total/NA	Air	D1946	
LCS 340-1583/4	Lab Control Sample	Total/NA	Air	D1946	
LCS 340-1583/6	Lab Control Sample	Total/NA	Air	D1946	
LCSD 340-1583/5	Lab Control Sample Dup	Total/NA	Air	D1946	
LCSD 340-1583/7	Lab Control Sample Dup	Total/NA	Air	D1946	
MB 340-1583/8	Method Blank	Total/NA	Air	D1946	

Air - GC/MS VOA

Analysis Batch: 1596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
340-1952-1	S-1	Total/NA	Air	TO-15 MOD	
340-1952-2	S-2	Total/NA	Air	TO-15 MOD	
340-1952-3	S-3	Total/NA	Air	TO-15 MOD	
340-1952-4	S-4	Total/NA	Air	TO-15 MOD	
340-1952-5	S-6	Total/NA	Air	TO-15 MOD	
340-1952-6	S-7	Total/NA	Air	TO-15 MOD	
340-1952-7	S-8	Total/NA	Air	TO-15 MOD	
LCS 340-1596/4	Lab Control Sample	Total/NA	Air	TO-15 MOD	
LCSD 340-1596/5	Lab Control Sample Dup	Total/NA	Air	TO-15 MOD	
MB 340-1596/9	Method Blank	Total/NA	Air	TO-15 MOD	

Lab Chronicle

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-1
Lab Sample ID: 340-1952-1
Date Collected: 05/11/12 09:31
Matrix: Air
Date Received: 05/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		2.1	1583	05/15/12 14:19	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO-15 MOD		6.99	1596	05/15/12 22:27	JR	TAL LA
	Instrument ID: MSB							

Client Sample ID: S-2
Lab Sample ID: 340-1952-2
Date Collected: 05/11/12 10:05
Matrix: Air
Date Received: 05/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		2.22	1583	05/15/12 14:38	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO-15 MOD		1	1596	05/16/12 07:31	JR	TAL LA
	Instrument ID: MSB							

Client Sample ID: S-3
Lab Sample ID: 340-1952-3
Date Collected: 05/11/12 11:20
Matrix: Air
Date Received: 05/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		2	1583	05/15/12 14:56	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO-15 MOD		1.12	1596	05/16/12 03:23	JR	TAL LA
	Instrument ID: MSB							

Client Sample ID: S-4
Lab Sample ID: 340-1952-4
Date Collected: 05/11/12 11:36
Matrix: Air
Date Received: 05/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		1.92	1583	05/15/12 15:15	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO-15 MOD		1.12	1596	05/16/12 04:13	JR	TAL LA
	Instrument ID: MSB							

Client Sample ID: S-6
Lab Sample ID: 340-1952-5
Date Collected: 05/11/12 12:56
Matrix: Air
Date Received: 05/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		2.06	1583	05/15/12 15:34	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO-15 MOD		1.02	1596	05/16/12 05:04	JR	TAL LA
	Instrument ID: MSB							

Lab Chronicle

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Client Sample ID: S-7

Lab Sample ID: 340-1952-6

Date Collected: 05/11/12 13:30

Matrix: Air

Date Received: 05/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		2.11	1583	05/15/12 15:57	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO-15 MOD		1.09	1596	05/16/12 05:53	JR	TAL LA
	Instrument ID: MSB							

Client Sample ID: S-8

Lab Sample ID: 340-1952-7

Date Collected: 05/11/12 13:48

Matrix: Air

Date Received: 05/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D1946		2.02	1583	05/15/12 16:14	EI	TAL LA
	Instrument ID: GC8							
Total/NA	Analysis	TO-15 MOD		1.03	1596	05/16/12 06:42	JR	TAL LA
	Instrument ID: MSB							

Laboratory References:

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

Certification Summary

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Costa Mesa	Arizona	State Program	9	AZ0727
TestAmerica Costa Mesa	Florida	NELAC	4	E87652
TestAmerica Costa Mesa	L-A-B	DoD ELAP		L2273
TestAmerica Costa Mesa	Louisiana	NELAC	6	01948
TestAmerica Costa Mesa	New York	NELAC	2	11851
TestAmerica Costa Mesa	Oregon	NELAC	10	CA200013
TestAmerica Costa Mesa	Washington	State Program	10	C579

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Method	Method Description	Protocol	Laboratory
D1946	Fixed Gases in Air (GC)	ASTM	TAL LA
TO-15 MOD	Volatile Organic Compounds in Ambient Air	EPA	TAL LA

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

Sample Summary

Client: ProTech Consulting and Engineering
Project/Site: Kelly Moore

TestAmerica Job ID: 340-1952-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
340-1952-1	S-1	Air	05/11/12 09:31	05/14/12 10:00
340-1952-2	S-2	Air	05/11/12 10:05	05/14/12 10:00
340-1952-3	S-3	Air	05/11/12 11:20	05/14/12 10:00
340-1952-4	S-4	Air	05/11/12 11:36	05/14/12 10:00
340-1952-5	S-6	Air	05/11/12 12:56	05/14/12 10:00
340-1952-6	S-7	Air	05/11/12 13:30	05/14/12 10:00
340-1952-7	S-8	Air	05/11/12 13:48	05/14/12 10:00

TestAmerica
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

340-1952

Client Contact Information	Project Manager: Woody Lovejoy		1 of 2 COCs
Company: Protech	Phone: 650 714-4200	Samples Collected By: RYAN Lezak	
Address: 1203 Main Street	Email: slovejoyjr@tcg-internationall.com		
City/State/Zip Redwood City 94063	Site Contact:		
Phone:	LAB Contact:		
FAX:	Analysis Turnaround Time		
Project Name: Kelly Moore	Standard (Specify) 5-DAY		
Site:	Rush (Specify)		
PO # SVS 383-0412			

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
S-1	5/11/12	9:31	9:39	29"	5"	HF110	34000673	X					X							*
S-2		10:05	12:48	30"	8"	HF151	34001243	X					X							*
S-3		11:20	11:28	30"	5"	HF156	34000325	X					X							*
S-4		11:36	11:46	30"	5"	HF074	34000124	X					X							*
** S-5 VOID		11:54		30"		HF008	[illegible]	X					X							**
S-6		12:56	1:04	30"	4"	HF119	34000672	X					X							*

Temperature (Fahrenheit)		
	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)		
	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

* = TO-15 with IPA ** = do not analyze S-5 void

Samples Shipped by:	Date/Time: 5/11/12 3:45 pm	Samples Received by:	5/14/12 10:00
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only Shipper Name: Opened by: Condition:

TAL-8604-340(0312)

TestAmerica
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

340-1952

Client Contact Information	Project Manager: Woody Lowjoy		2 of 2 COCs
Company: Protech	Phone: 650 714-4200	Samples Collected By:	
Address: 1208 Main Street	Email: slowjoyjr@tcg-international.com		
City/State/Zip Redwood City CA 94063			
Phone:	Site Contact:		
FAX:	LAB Contact:		
Project Name: Kelly Moore - Albany	Analysis Turnaround Time		
Site:	Standard (Specify) 5 - DAY		
PO # SVS 383-OH12	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
S-7	5/11/12	1:30	1:36	29"	5"	H218	34000221	X					X							*
S-8	↓	1:48	2:04	29"	5"	HF006	34000761	X					X							*

Temperature (Fahrenheit)			
	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)			
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

* = TO-15 with IPA

Samples Shipped by:	Date/Time: 5/11/12 3:45 pm	Samples Received by: 5/14/12 10:00
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

TAL-8604-340(0312)

Login Sample Receipt Checklist

Client: ProTech Consulting and Engineering

Job Number: 340-1952-1

Login Number: 1952

List Source: TestAmerica Costa Mesa

List Number: 1

Creator: Morales, Sergio

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: PROTECH
CANISTER SERIAL #: 340000673
DATE CLEANED: 340 - 1504
CLIENT SAMPLE #: S-1
SITE LOCATION: Kelly Moore - Albany

VFR ID: HF 110
Duration of comp. : — Hrs. / mins.
Flow setting: ~150.0 ml/min
Initials: [redacted]

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	5/4/12	[redacted]
INITIAL FIELD VACUUM	9:31	29"	5/11/12	[redacted]
FINAL FIELD READING	9:39	5"	5/11/12	[redacted]

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.31	5/15/12	[redacted]
FINAL PRESSURE (PSIA)	25.82	5/15/12	[redacted]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: PROTECH
CANISTER SERIAL #: 34001243
DATE CLEANED: 340-1494
CLIENT SAMPLE #: S-2
SITE LOCATION: Kelly Moore - Albany

VFR ID: HF 151
Duration of comp.: — Hrs. / mins.
Flow setting: ~150.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5/4/12	[illegible]
INITIAL FIELD VACUUM	1005	30"	5/11/12	KC
FINAL FIELD READING	1248	8"	5/11/12	KC

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	11.01	5/15/12	G
FINAL PRESSURE (PSIA)	24.42	5/15/12	G

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: PROTECH
CANISTER SERIAL #: 340000325
DATE CLEANED: 340 - 1504
CLIENT SAMPLE #: S-3
SITE LOCATION: Kelly Ave Albany

VFR ID: HF156
Duration of comp. : ____ Hrs. / mins.
Flow setting: ~150.0 ml/min
Initials: KD

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	5/4/12	KD
INITIAL FIELD VACUUM	1120	30"	5/11/12	KE
FINAL FIELD READING	1128	5"	5/11/12	KE

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.70	5/15/12	ED
FINAL PRESSURE (PSIA)	25.40	5/15/12	ED

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: PROTECH
CANISTER SERIAL #: 340010244
DATE CLEANED: 340 - 1504
CLIENT SAMPLE #: S-4
SITE LOCATION: Kelly Moore - Albany

VFR ID: HF074
Duration of comp. : — Hrs. / mins.
Flow setting: ~150.0 ml/min
Initials: [redacted]

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5/4/12	[redacted]
INITIAL FIELD VACUUM	11:36	30"	5/11/12	[redacted]
FINAL FIELD READING	11:46	5"	5/11/12	[redacted]

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.35	5/15/12	[redacted]
FINAL PRESSURE (PSIA)	25.66	5/15/12	[redacted]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: PROTECH
CANISTER SERIAL #: 340001672
DATE CLEANED: 340 - 1504
CLIENT SAMPLE #: S-6
SITE LOCATION: Kelly Moore - Albany

VFR ID: HF119
Duration of comp. : — Hrs. / mins.
Flow setting: ~150.0 ml/min
Initials: [redacted]

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	5/4/12	[redacted]
INITIAL FIELD VACUUM	12:56	30"	5/11/12	[redacted]
FINAL FIELD READING	1:04	4"	5/11/12	[redacted]

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.35	5/15/12	[redacted]
FINAL PRESSURE (PSIA)	25.50	5/15/12	[redacted]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: PROTECH
CANISTER SERIAL #: 34001021
DATE CLEANED: 340 - 1504
CLIENT SAMPLE #: S-7
SITE LOCATION: Kelly Moore - Albany

VFR ID: HF218
Duration of comp. : — Hrs. / mins.
Flow setting: ~150.0 ml/min
Initials: KD

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5/4/12	KD
INITIAL FIELD VACUUM	1:30	29"	5/11/12	KC
FINAL FIELD READING	1:36	5"	5/11/12	KC

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	11.64	5/15/12	LT
FINAL PRESSURE (PSIA)	24.61	5/15/12	LT

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: PROTECH
CANISTER SERIAL #: 340007601
DATE CLEANED: 340 - 1504
CLIENT SAMPLE #: S-K
SITE LOCATION: Kelly Moore - Albany

VFR ID: HF006
Duration of comp. : — Hrs. / mins.
Flow setting: ~150.0 ml/min
Initials: [illegible]

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	30"	5/4/12	[illegible]
INITIAL FIELD VACUUM	1:48	29"	5/11/12	[illegible]
FINAL FIELD READING	2:04	5"	5/11/12	

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.52	5/15/12	[illegible]
FINAL PRESSURE (PSIA)	25.30	5/15/12	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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CANISTER QC CERTIFICATION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certification Type: TO-15

Date Cleaned/Batch: DO40912C 340-1494

Date of QC: 04/11/12

Data File Number: MB04113,D

CANISTER ID NUMBERS

*34001225	34000600
0365	0603
1243	0803
1244	0333
1245	0900
1246	0899

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By: [signature]

Date: 04/13/12

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CANISTER QC CERTIFICATION

TestAmerica

Certification Type: TO-15

Date Cleaned/Batch: D041012D 340-1504

Date of QC: 041112

Data File Number: MB04112.D

CANISTER ID NUMBERS

*34000750	34000325
0673	1021
0761	0903
0672	0808
1024	0326
0647	1022

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By: _____ Date: 041312

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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-1494-1

SDG No.:

Client Sample ID: 34001225 Lab Sample ID: 340-1494-1

Matrix: Air Lab File ID: MB04113.d

Analysis Method: TO-15 Date Collected: 04/09/2012 16:00

Sample wt/vol: 250(mL) Date Analyzed: 04/11/2012 15:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 1294 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		0.80	0.30
107-02-8	Acrolein	ND		4.0	2.0
107-13-1	Acrylonitrile	ND		2.0	0.50
107-05-1	Allyl chloride	ND		0.50	0.25
71-43-2	Benzene	ND		0.30	0.15
100-44-7	Benzyl chloride	ND		0.80	0.25
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.40	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.40
106-97-8	n-Butane	ND		0.50	0.25
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.80
104-51-8	n-Butylbenzene	ND		0.50	0.25
135-98-8	sec-Butylbenzene	ND		0.50	0.25
98-06-6	tert-Butylbenzene	ND		0.80	0.40
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.25
75-00-3	Chloroethane	ND		0.80	0.20
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		1.0	0.40
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.50	0.25
110-82-7	Cyclohexane	ND		0.50	0.25
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroetha ne	ND		0.40	0.20
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.30

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-1494-1

SDG No.:

Client Sample ID: 34001225 Lab Sample ID: 340-1494-1

Matrix: Air Lab File ID: MB04113.d

Analysis Method: TO-15 Date Collected: 04/09/2012 16:00

Sample wt/vol: 250(mL) Date Analyzed: 04/11/2012 15:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 1294 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.20
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.20
142-82-5	n-Heptane	ND		1.0	0.30
87-68-3	Hexachlorobutadiene	ND		0.40	0.20
110-54-3	n-Hexane	ND		1.0	0.40
591-78-6	2-Hexanone	ND		0.40	0.25
98-82-8	Isopropylbenzene	ND		0.80	0.25
99-87-6	4-Isopropyltoluene	ND		0.80	0.25
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.30
80-62-6	Methyl methacrylate	ND		0.40	0.20
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.20
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND		2.0	0.80
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.30
115-07-1	Propylene	ND		1.0	0.50
103-65-1	n-Propylbenzene	ND		0.50	0.20
100-42-5	Styrene	ND		0.40	0.20
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.20
109-99-9	Tetrahydrofuran	ND		2.0	0.50
108-88-3	Toluene	ND		0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-1494-1

SDG No.:

Client Sample ID: 34001225 Lab Sample ID: 340-1494-1

Matrix: Air Lab File ID: MB04113.d

Analysis Method: TO-15 Date Collected: 04/09/2012 16:00

Sample wt/vol: 250(mL) Date Analyzed: 04/11/2012 15:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 1294 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.20
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	0.25
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.25
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.40	0.20
75-01-4	Vinyl chloride	ND		0.20	0.10
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.20

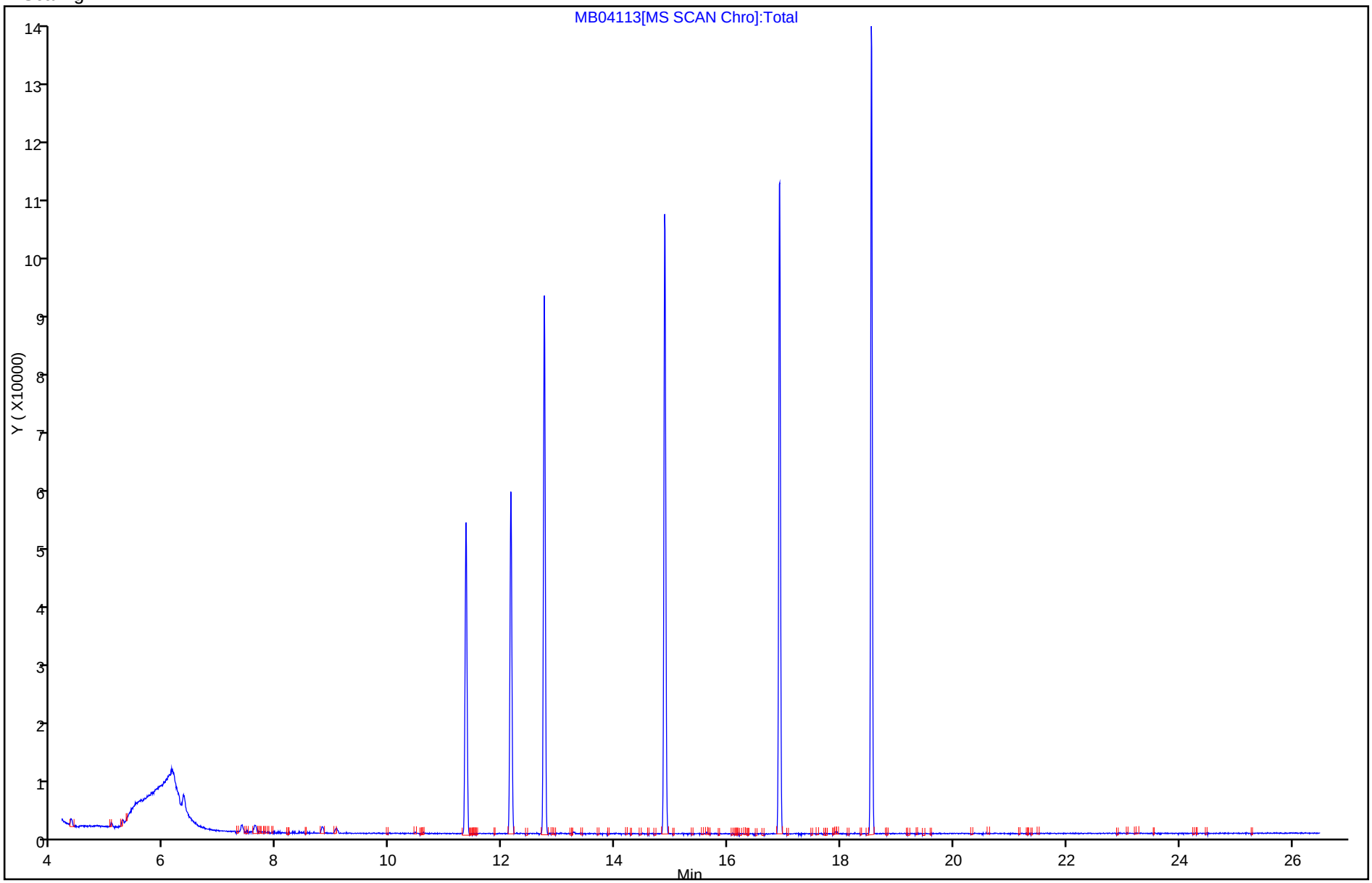
CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSG\20120411-916.b\MB04113.d		
Lims ID:	340-1494-A-1	Client ID:	34001225
Inject. Date:	11-Apr-2012 15:39:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-1494-a-1		
Misc. Info.:	340-0000916-007		
Operator:	LY	Instrument ID:	MSG
Vol. Injected:	1.0000	ALS Bottle#:	13
Lims Batch ID:	1294	Lims Sample ID:	7
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSG\20120411-916.b\TO-15_MSG.m		
Method Label:	TO-15/TO-14A		
Last Update:	13-Apr-2012 10:38:08	Calib Date:	13-Feb-2012 14:57:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSG\20120210-488.b\IC02139.d		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Process Host:	CORP-CTX-12		
First Level Reviewer: yabutl		Date:	13-Apr-2012 10:38:16

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 87 Chlorobromomethane (IS)	49	11.356	11.356	0.0	91	37664	4.00	
$ 90 1,2-Dichloroethane-d4 (Surr)	65	12.149	12.149	0.0	0	41190	4.20	
* 85 1,4-Difluorobenzene	114	12.745	12.745	0.0	96	76301	4.00	
$ 89 Toluene-d8 (Surr)	98	14.878	14.878	0.0	95	78892	3.74	
* 86 Chlorobenzene-d5 (IS)	117	16.918	16.918	0.0	92	65305	4.00	
$ 88 4-Bromofluorobenzene (Surr)	95	18.542	18.542	0.0	76	55787	3.91	

Report Date: 13-Apr-2012 10:38:17 Chrom Revision: 2.0 17-Jan-2012 17:19:58
Data File: \\Lachrom\ChromData\MSG\20120411-916.b\MB04113.d
Injection Date: 11-Apr-2012 15:39:30 Limit Group: TO-15-TO-15_MOD_ICAL
Client ID: 34001225 Instrument ID: MSG
Lims Batch ID: 1294 Lims Sample ID: 7
Operator ID: LY
Column Type: RTX-Volatiles Column Dia: 0.32 mm
Y Scaling:



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-1504-1

SDG No.:

Client Sample ID: 34000750 Lab Sample ID: 340-1504-1

Matrix: Air Lab File ID: MB04112.d

Analysis Method: TO-15 Date Collected: 04/10/2012 16:00

Sample wt/vol: 250(mL) Date Analyzed: 04/11/2012 14:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 1294 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	0.83		0.80	0.30
107-02-8	Acrolein	ND		4.0	2.0
107-13-1	Acrylonitrile	ND		2.0	0.50
107-05-1	Allyl chloride	ND		0.50	0.25
71-43-2	Benzene	ND		0.30	0.15
100-44-7	Benzyl chloride	ND		0.80	0.25
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.40	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.40
106-97-8	n-Butane	ND		0.50	0.25
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.80
104-51-8	n-Butylbenzene	ND		0.50	0.25
135-98-8	sec-Butylbenzene	ND		0.50	0.25
98-06-6	tert-Butylbenzene	ND		0.80	0.40
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.25
75-00-3	Chloroethane	ND		0.80	0.20
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		1.0	0.40
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.50	0.25
110-82-7	Cyclohexane	ND		0.50	0.25
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroetha ne	ND		0.40	0.20
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.30

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-1504-1

SDG No.:

Client Sample ID: 34000750 Lab Sample ID: 340-1504-1

Matrix: Air Lab File ID: MB04112.d

Analysis Method: TO-15 Date Collected: 04/10/2012 16:00

Sample wt/vol: 250(mL) Date Analyzed: 04/11/2012 14:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 1294 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.20
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.20
142-82-5	n-Heptane	ND		1.0	0.30
87-68-3	Hexachlorobutadiene	ND		0.40	0.20
110-54-3	n-Hexane	ND		1.0	0.40
591-78-6	2-Hexanone	ND		0.40	0.25
98-82-8	Isopropylbenzene	ND		0.80	0.25
99-87-6	4-Isopropyltoluene	ND		0.80	0.25
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.30
80-62-6	Methyl methacrylate	ND		0.40	0.20
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.20
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND		2.0	0.80
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.30
115-07-1	Propylene	ND		1.0	0.50
103-65-1	n-Propylbenzene	ND		0.50	0.20
100-42-5	Styrene	ND		0.40	0.20
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.20
109-99-9	Tetrahydrofuran	ND		2.0	0.50
108-88-3	Toluene	ND		0.40	0.20
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	1.0
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-1504-1

SDG No.:

Client Sample ID: 34000750 Lab Sample ID: 340-1504-1

Matrix: Air Lab File ID: MB04112.d

Analysis Method: TO-15 Date Collected: 04/10/2012 16:00

Sample wt/vol: 250(mL) Date Analyzed: 04/11/2012 14:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 1294 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.20
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		2.5	0.25
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.25
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.40	0.20
75-01-4	Vinyl chloride	ND		0.20	0.10
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSG\20120411-916.b\MB04112.d		
Lims ID:	340-1504-A-1	Client ID:	34000750
Inject. Date:	11-Apr-2012 14:36:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-1504-A-1		
Misc. Info.:	340-0000916-006		
Operator:	LY	Instrument ID:	MSG
Vol. Injected:	1.0000	ALS Bottle#:	12
Lims Batch ID:	1294	Lims Sample ID:	6
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSG\20120411-916.b\TO-15_MSG.m		
Method Label:	TO-15/TO-14A		
Last Update:	13-Apr-2012 10:36:56	Calib Date:	13-Feb-2012 14:57:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSG\20120210-488.b\IC02139.d		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Process Host:	CORP-CTX-12		
First Level Reviewer: yabutl		Date:	13-Apr-2012 10:36:56

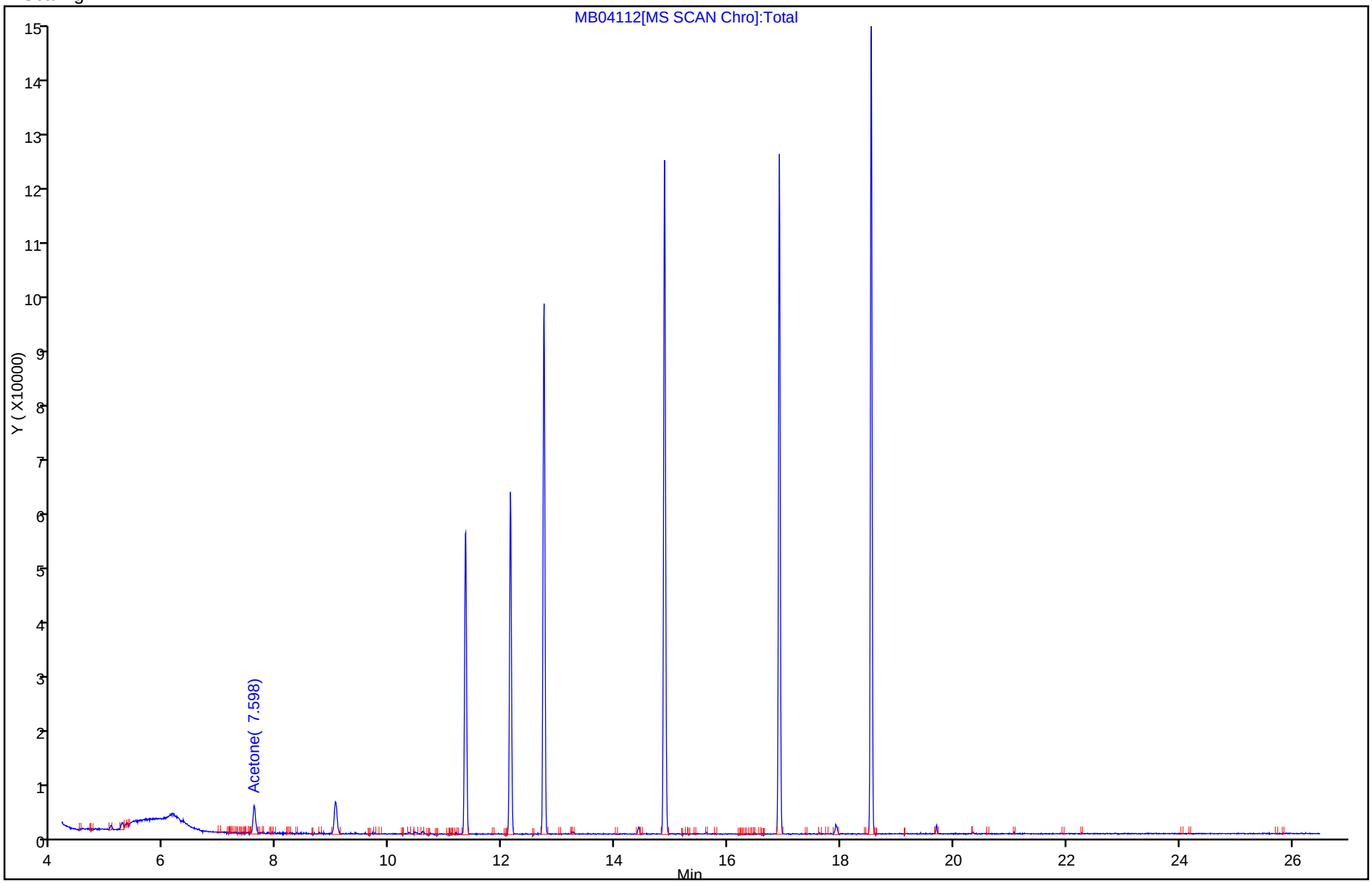
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
17 Acetone	43	7.598	7.598	0.0	61	11049	0.8275	
* 87 Chlorobromomethane (IS)	49	11.349	11.356	-0.007	91	39880	4.00	
$ 90 1,2-Dichloroethane-d4 (Surr)	65	12.143	12.149	-0.006	0	43831	4.22	
* 85 1,4-Difluorobenzene	114	12.738	12.745	-0.007	96	84190	4.00	
$ 89 Toluene-d8 (Surr)	98	14.878	14.878	0.0	95	89816	3.86	
* 86 Chlorobenzene-d5 (IS)	117	16.912	16.918	-0.006	92	73033	4.00	
$ 88 4-Bromofluorobenzene (Surr)	95	18.542	18.542	0.0	77	62308	3.90	

Report Date: 13-Apr-2012 10:36:56 Chrom Revision: 2.0 17-Jan-2012 17:19:58

Data File: \\Lachrom\ChromData\MSG\20120411-916.b\MB04112.d

Injection Date:	11-Apr-2012 14:36:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	34000750	Instrument ID:	MSG
Lims Batch ID:	1294	Lims Sample ID:	6
Operator ID:	LY		
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm

Y Scaling:



Report Date: 13-Apr-2012 10:36:56 Chrom Revision: 2.0 17-Jan-2012 17:19:58
Data File: \\Lachrom\ChromData\MSG\20120411-916.b\MB04112.d
Injection Date: 11-Apr-2012 14:36:30 Limit Group: TO-15-TO-15_MOD_ICAL
Client ID: 34000750 Instrument ID: MSG
Lims Batch ID: 1294 Lims Sample ID: 6
Operator ID: LY
Column Type: RTX-Volatiles Column Dia: 0.32 mm
17 Acetone