

NEW MEXICO ENVIRONMENT DEPARTMENT VOLUNTARY REMEDIATION AGREEMENT

I. Introduction

This Voluntary Remediation Agreement (“Agreement”) is entered into voluntarily by **MW Development LLC**, represented by **Hugo Hinojosa, President/CEO**, who is duly authorized and appointed (“Participant”) and the secretary of the New Mexico Environment Department (“Department”), or his or her designee, pursuant to the Voluntary Remediation Act, NMSA 1978, Sections 74-4G-1 to -12 (1997, as amended through 2006), and the New Mexico Voluntary Remediation Regulations (20.6.3 NMAC). The purpose of this Agreement is to detail the obligations and functions of each party relevant to the remediation to be conducted at the **Copper Pointe - Unit A-1 and Unit C** (“Site”), located at 10500 Copper Avenue NE in Albuquerque, under the Voluntary Remediation Program (**VRP Site No. 53201001**).

The activities conducted by the Participant under this Agreement are subject to approval by the Department. The activities conducted by the Participant shall be consistent with this Agreement, all applicable laws and regulations, and any pertinent guidance documents. The Participant shall employ sound scientific, engineering, and construction practices in the voluntary remediation activities at this Site.

II. Statement of Eligibility

The secretary or his designee has determined that the application, consisting of a Phase I Environmental Site Assessment, and Preliminary VRP Work Plan, submitted by the Participant to the Department on March 31, 2020, is complete, and that the Participant is eligible to enter into this Agreement in accordance with NMSA 1978, Section 74-4G-5 (1997) and 20.6.3.200.A NMAC.

III. Parties Bound

This Agreement shall apply to and be binding upon the Participant, its officers, managing agents, directors, principals, partners, employees, receivers, trustees, agents, parents, subsidiaries and affiliates, and upon the Department, its employees, and agents. The Participant has submitted with the application a signed Declaration of Ability and Intent as set forth in 20.6.3.200.B(2) NMAC. No change in ownership, corporate, or partnership status shall in any way alter the Participant’s status or responsibilities under this Agreement unless the Participant or Department terminates this Agreement in accordance with 20.6.3.300.H NMAC.

The Participant shall provide a copy of this Agreement to any subsequent owners or successors before ownership rights are transferred. The Participant shall provide a copy of this Agreement to all contractors, subcontractors, laboratories, and consultants or other parties, which are retained by the Participant, to conduct any work under this Agreement, within 14 days after the effective date of this Agreement or within 14 days of the date of retaining their services.

IV. Designated Project Manager

On or before the effective date of this Agreement, the Department shall designate a project manager. The Primary Applicant specified on the Voluntary Remediation Program Application

will function as the project manager for the Participant. Each project manager shall be responsible for overseeing the implementation of this Agreement. The Department project manager will be the Department-designated representative at the Site. To the maximum extent possible, communications between the Participant and Department and all documents (including reports, approvals, and other correspondence) concerning the activities performed pursuant to the terms and conditions of this Agreement shall be directed through the project managers. During implementation of this Agreement, the project managers shall, whenever possible, operate by consensus and shall attempt in good faith to resolve disputes informally through discussion of the issues. Each party has the right to change its respective project manager by notifying the other party in writing at least five days prior to the change.

V. Definitions

“Site” means the area described in the Voluntary Remediation Application. This description is attached and incorporated herein as Exhibit 1. All other terms used are defined in NMSA 1978, Section 74-4G-3 (1997) and 20.6.3.7 NMAC.

VI. Addresses for All Correspondence

Documents, including reports, approvals, notifications, disapprovals, and other correspondence to be submitted under this Agreement, may be sent by certified mail, first class mail, hand delivery, overnight mail, or by courier service to the following addresses or to such addresses as the Participant or Department designates in writing.

Documents to be submitted to the Department should be sent to:

Mailing Address:

Savannah Richards
Ground Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
Santa Fe, NM 87502
E-mail: savannah.richards@state.nm.us
Phone number: (505) 827-3253
Fax number: (505) 827-2965

Physical Address:

Savannah Richards
Ground Water Quality Bureau
New Mexico Environment Department
1190 St. Francis Drive
Santa Fe, NM 87505

Documents to be submitted to the Participant should be sent to:

Mailing Address:

Hugo Hinojosa
MW Development
190 Central Park Square #301
Los Alamos, NM 87544

Physical Address:

Hugo Hinojosa
MW Development
190 Central Park Square #301
Los Alamos, NM 87544

VII. Compliance with Applicable Laws

All work undertaken by the Participant pursuant to this Agreement shall be performed in compliance with all applicable federal, state and local laws, ordinances and regulations, including,

but not limited to all Occupational Safety and Health Administration, Department of Transportation, Resource Conservation and Recovery Act, New Mexico Water Quality Control Commission, and New Mexico Environmental Improvement Board Petroleum Storage Tank regulations. In the event of a conflict between federal, state, or local laws, ordinances, or regulations, the Participant shall comply with the most stringent of such laws, ordinances, or regulations, unless provided otherwise in writing by the Department or other appropriate regulatory personnel with jurisdiction over such laws, ordinances, and regulations. Where it is determined that a permit is required under federal, state or local laws, ordinances, or regulations, the Participant shall submit timely and complete applications and take all other actions necessary to obtain all such permits or approvals. The Participant shall be responsible for obtaining all permits that are necessary for the performance of the work hereunder, and for all ongoing or proposed Site activities, and for all ongoing or proposed facility operations.

VIII. Performance Standards and Associated Requirements

The Participant has submitted with its application to the Department a preliminary work plan describing the proposed voluntary remediation activities as they are currently envisioned as being submitted in a final voluntary remediation work plan, which includes a description of the known and suspected contaminants to be addressed by the proposed voluntary remediation activities. This preliminary work plan was prepared pursuant to 20.6.3.200.B NMAC. A copy of the preliminary work plan is attached and incorporated herein as Exhibit 2.

The contaminants covered by this Agreement are described as follows:

- *Indoor Air: Volatile organic compounds (VOCs) including Trichloroethene, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, and Vinyl Chloride*

Voluntary remediation activities undertaken pursuant to this Agreement shall achieve the following standards or risk-based levels:

- *New Mexico Environment Department Risk Assessment Guidance for Site Investigations and Remediation, June 2019*

It is understood that the parties may wish to modify the list of contaminants and the media in which the contaminants are located, as covered by this Agreement, as additional information about the Site is developed. The Department may approve such changes through approval of work plans and other submittals provided by the Participant during the course of undertaking voluntary remediation activities.

IX. Access

To the extent that the Site or other areas where work is to be performed hereunder are presently owned or controlled by parties other than those bound by this Agreement, the Participant shall obtain or shall use its best efforts to obtain access agreements from the present owners. Best efforts shall include, at a minimum, certified letters from Participant to the present owners of such properties requesting access agreements to permit the Participant, Department, and their authorized

representatives' access to such property. Such agreements shall provide access for the Department and authorized representatives of the Department, as specified below. In the event that such access agreements are not obtained, the Participant shall so notify the Department, which may then, at its discretion, assist the Participant in gaining access.

The Participant shall provide authorized representatives of the Department access to the Site and other areas where work is to be performed at all reasonable times. Such access shall be related solely to the work being performed on the Site pursuant to this Agreement and may include, but is not limited to: inspecting and copying of Site and facility records; reviewing the progress of the Participant in carrying out the terms of this Agreement; conducting such tests, inspections, and sampling as the Department may deem necessary; using a camera, sound recording, or other documentary type equipment for field activities; and verifying the data submitted to the Department by the Participant hereunder. Prior to conducting remediation activities, the Participant shall provide a minimum of 72 hours' notice to the Department to allow observation of Site activities and to allow the Department's authorized representatives to collect split samples, at the Department's discretion. The Participant shall permit the Department's authorized representatives to inspect and copy all records, files, photographs, documents, and other writings, including all sampling and monitoring data, which pertain to this Agreement and over which the Participant exercises authority.

X. Deliverables and Submittal Schedule

A. Final Voluntary Remediation Work Plan

In accordance with 20.6.3.400 NMAC, the Participant shall submit to the Department a proposed final voluntary remediation work plan, detailing investigation and remediation activities to be undertaken to achieve the performance standards described in Section VIII of this Agreement. At a minimum, the final work plan must include the elements listed in 20.6.3.400.B NMAC.

Submittal Schedule:

The proposed final work plan shall be submitted by the Participant no later than 45 days after this Agreement has been signed.

If the work plan is to be prepared in phases, the work plan for the first phase shall be submitted no later than 45 days after this Agreement has been signed. Following completion, to the Department's satisfaction, of the work which is the subject of the final work plan for the first phase, the Department may require submission of one or more proposed final work plans for subsequent phases.

Department Review:

The secretary or his designee shall review and approve, approve with conditions, or disapprove a proposed final work plan within 45 days of receipt. Written notice shall be made of any conditions or deficiencies. If the secretary or his designee disapproves a final work plan, the Participant may be granted an opportunity to submit a revised version, as determined by the secretary or his designee.

Modification of Voluntary Remediation Work Plan:

The approved final voluntary remediation work plan may be modified at the request of the Participant and/or the Department, with both parties' approval, in accordance with 20.6.3.400.D NMAC.

B. Periodic Status Reports

The Participant shall submit periodic status reports, which detail activities completed for the reporting period and those planned for the upcoming reporting period, to the Department for the duration of this Agreement. The status report shall identify any proposed variances to the approved work plan and describe interim progress on implementation of the work plan, including analytical results of any sampling, water level measurements, Site maps or photos, as appropriate.

Submittal Schedule:

The first status report shall be submitted by the Participant no later than 90 days after this Agreement has been signed. Subsequent status reports shall be submitted on a quarterly basis until the completion report is submitted to the Department.

C. Voluntary Remediation Completion Report

In accordance with 20.6.3.500.B NMAC, following the completion of Site voluntary remediation activities, the Participant shall demonstrate to the Department that Site conditions meet the applicable standards specified in Section VIII of this Agreement by submitting to the Department a voluntary remediation completion report. The content of the completion report is detailed in 20.6.3.500.B NMAC. The report shall be submitted to the Department with the legal description of the affected property, and with an Affidavit of Completion of Voluntary Remediation signed by the Participant that indicates that remediation is complete, in accordance with this Agreement and applicable regulations and guidance.

Submittal Schedule:

The voluntary remediation completion report shall be submitted to the Department within 90 days following completion of voluntary remediation activities.

Department Review:

The Department shall review and determine the sufficiency of a completion report within 45 days of receipt. If the secretary or his designee does not approve the completion report, the secretary or his designee shall either issue a finding that the Participant is not in compliance with the Agreement and terminate the Agreement, or advise the Participant in writing of data gaps in the report. The Participant shall correct any identified data gaps and resubmit the completion report within 30 days of receipt of notice of data gaps.

XI. Certificate of Completion

If the secretary or his designee approves the voluntary remediation completion report, the secretary or his designee will issue either a Certificate of Completion or a Conditional Certificate of

Completion, as appropriate, pursuant to NMSA 1978, Section 74-4G-7 (1997) and 20.6.3.500.B NMAC. If a Conditional Certificate of Completion is issued, the Department shall conduct audits to ensure that all engineering controls, remediation systems, post-closure care, and affirmations of future non-residential land use are being maintained appropriately. These audits shall be performed at least every other year for the first 10 years following the issuance of the Conditional Certificate of Completion, and every five years thereafter. If, during the course of such an audit, the Department finds that any of the monitoring requirements, engineering controls, remediation systems, post-closure care, or affirmations of future non-residential land use are not being properly maintained such that the performance standards described in Section VIII of this Agreement are no longer being met, the Department may revoke the Conditional Certificate of Completion and initiate an enforcement action.

No Certificate of Completion or Conditional Certificate of Completion shall be issued to a Participant who has not paid invoiced oversight costs in full to the Department.

XII. Covenant Not to Sue

Pursuant to NMSA 1978, Section 74-4G-8 (1997) and 20.6.3.600 NMAC, after the secretary or his designee issues the Certificate of Completion or Conditional Certificate of Completion, the secretary or his designee shall provide a covenant not to sue to a purchaser or prospective purchaser of the Site that did not contribute to the Site contamination, for any direct liability, including future liability, for claims based upon the contamination covered by the Agreement and over which the Department has authority. Except as may be provided under federal law or as may be agreed to by a federal government entity, the covenant not to sue shall not release or otherwise apply to claims by the federal government for claims based on federal law. Except as may be agreed to by another department or agency of the state, the covenant not to sue shall not release or otherwise apply to claims of any other office, department, or agency of the state. Except as may be agreed to by a third party, the covenant not to sue shall not release or otherwise affect a person's liability to third parties.

XIII. Dispute Resolution

This section shall apply to any dispute arising under any section of this Agreement, unless specifically excepted. Dispute resolution shall be conducted in accordance with 20.6.3.300.I NMAC.

XIV. Reservation of Rights

The Department and Participant reserve all rights and defenses they may have pursuant to any available legal authority unless expressly waived herein. The Department expressly reserves the right to take any action, including any enforcement action, to address any release not covered by this Agreement, including any release that occurs after issuance of the Certificate of Completion or any release of a contaminant not covered by the voluntary remediation agreement. The secretary's covenant not to sue shall not apply to any such release.

Nothing herein is intended to release, discharge, or in any way affect any claims, causes of action or demands in law or equity which the parties may have against any person, firm, partnership or corporation not a party to this Agreement for any liability it may have arising out of, or relating in

any way to the generation, storage, treatment, handling, transportation, release or disposal of any materials, hazardous substances, hazardous waste, contaminants or pollutants at, to, or from the Site. The parties to this Agreement expressly reserve all rights, claims, demands, and causes of action they have against any and all other persons and entities who are not parties to this Agreement, and as to each other for matters not covered hereby.

The Participant reserves the right to seek contribution, indemnity, or any other available remedy against any person other than the Department found to be responsible or liable for contribution, indemnity or otherwise for any amounts which have been or will be expended by the Participant in connection with the Site.

XV. Enforcement Shield

Pursuant to the provisions of 20.6.3.300.A NMAC, the secretary will not initiate any enforcement action, including an administrative or judicial action, against a Participant for the contamination or release thereof, or for the activity that results in the contamination or release thereof, if the contamination is the subject of an Agreement pursuant to 20.6.3 NMAC. However, this Section shall not be a bar to any enforcement action if the Agreement is not finalized, if the Agreement is terminated or rescinded, or if the Participant does not successfully initiate or implement the Agreement within a reasonable time under the schedules set forth in this Agreement and approved work plans.

XVI. Oversight Costs

The Participant agrees to reimburse the Department for all of its costs associated with oversight and implementation of this Agreement in accordance with 20.6.3.300.J NMAC. These costs shall include those described in 20.6.3.300.J NMAC, as well as long-term oversight performed by the Department, as described in 20.6.3.500.B(5) NMAC, if a Conditional Certificate of Completion is issued.

Oversight will be invoiced based on actual hours of staff oversight, at a variable rate beginning at \$90.00 per hour. The hourly rate is calculated and updated on November 1 of each year, following a 30 calendar day public comment period. Travel and per diem costs will be invoiced at state-designated rates. Sampling and analysis costs will be invoiced at actual cost plus indirect overhead rate.

The Department will track all costs to the Department for review and oversight activities related to the Site and provide quarterly (or more often at the discretion of the Department) invoices per this Agreement for said costs. The Participant shall pay these invoiced costs to the Department within 30 calendar days after the date that the Participant receives notice that these costs are due and owed. If payment is not made within 30 days, the Department may terminate this Agreement and bring an action to collect the amount owed and the costs of bringing the collection action. If the Department prevails in such collection action, the Participant shall pay the Department's reasonable attorneys' fees and costs incurred in the collection action.

In the event that this Agreement is terminated for any reason, the Participant agrees to reimburse the Department for all costs incurred or obligated by the Department before the date of notice of

termination of the Agreement.

XVII. Notice of Bankruptcy

As soon as Participant has knowledge of its intention to file bankruptcy, or no later than seven days prior to the actual filing of a voluntary bankruptcy petition, Participant shall notify the Department of its intention to file a bankruptcy petition. In the case of an involuntary bankruptcy petition, Participant shall give notice to the Department as soon as it acquires knowledge of such petition.

XVIII. Indemnification

The Participant shall defend, indemnify, and hold harmless the Department and the State of New Mexico from all actions, proceedings, claims, demands, costs, damages, attorneys' fees, and all other liabilities and expenses of any kind from any source which may arise out of the performance of this Agreement, caused by the negligent act or failure to act of the Participant, its officers, employees, servants, subcontractors or agents, or if caused by the actions of any client of the Participant resulting in injury or damage to persons or property during the time when the Participant or any officer, agent, employee, servant or subcontractor thereof has or is performing services pursuant to this Agreement.

XIX. Effective Date and Subsequent Modification

The Agreement shall become final and effective upon being signed by both the secretary or his designee and the Participant. The effective date of the Agreement shall be the later date of signature by either the secretary or his designee or the Participant. This Agreement may be amended only by mutual agreement of the Department and the Participant. Amendments shall be in writing and shall be effective upon being signed by both the secretary or his designee and the Participant.

XX. Termination

As provided for in 20.6.3.300.H NMAC, if an Agreement is not reached between an applicant and the secretary or his designee on or before the 30th calendar day after the secretary or his designee determines an applicant to be eligible pursuant 20.6.3.200 and 20.6.3.300 NMAC, the applicant or the secretary or his designee may withdraw from the negotiations. The Participant may terminate the voluntary remediation Agreement upon 60 calendar days' written notice via certified mail, return receipt requested to the Department. The secretary or his designee may terminate this Agreement upon finding that the Participant is not in compliance with this Agreement. Notice of termination will be made to the Participant via certified mail, return receipt requested, and facts supporting the rationale for termination shall be set forth in the notification. The Department's costs incurred or obligated before the date the notice of termination is received are recoverable by the Department under the Agreement if the Agreement is terminated.

XXI. Complete Agreement

This Agreement contains the entire Agreement of the parties.

XXII. Applicable Law

This Agreement shall be governed by and construed in accordance with the laws of the State of

New Mexico.

The provisions of this Agreement shall be satisfied when the Department gives the Participant written notice in the form of a Certificate of Completion that the Participant has demonstrated to the secretary's satisfaction that the terms of this Agreement have been completed, including the selection and implementation of a remedial action, when appropriate.

Nothing in this Agreement shall restrict the State of New Mexico from seeking other appropriate relief to protect human health or the environment from contamination at or from this Site if not remediated in accordance with this Agreement.

DRAFT

Signatures

Participant(s):

By: _____
(Signature of authorized representative)

Name: _____
(Print or type)

Date: _____

New Mexico Environment Department:

By: _____
(Secretary or designee)

Name: _____
(Print or type)

Date: _____

Enclosures: Exhibit 1: Legal Description of Property
 Exhibit 2: Preliminary Work Plan

NEW MEXICO ENVIRONMENT DEPARTMENT
VOLUNTARY REMEDIATION AGREEMENT

EXHIBIT 1

Legal Description of Property

Copper Pointe - Unit A-1 and Unit C
VRP Site No. 53201001

The site is a 13.5 acre parcel located at 10500 Copper Avenue NE, Albuquerque, New Mexico, more particularly described as first amendment and restated condominium plat of Copper Pointe Condominium comprising all of Tract 5 Copper Pointe Subdivision situated within section 21, township 10 north, range 4 east, Albuquerque, Bernalillo County, New Mexico. The full legal description is included on the following Condominium Plat Map.

**LEGAL DESCRIPTION - RESERVED
DEVELOPMENT RIGHTS AREA (RDR AREA)**

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising all of Tract 5, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and being more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid Bearings (Central Zone - NAD 83) and ground distances as follows:

Beginning at the Southeast corner of the parcel herein described, said point being the Southwest corner of Tract 4, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and also being on the Northerly boundary line of The Presidio, Unit 2, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on June 7, 2007, in Volume 2007C, Folio 158, from whence the Albuquerque Control Survey Station "14-J22" bears N 46°31'34" E, 4247.26 feet distant; Thence along said Northerly boundary line of The Presidio, Unit 2, for the following seven (7) courses,

N 89°46'13" W, 131.86 feet to a point; Thence,
S 00°13'47" W, 130.00 feet to a point; Thence,
N 89°46'13" W, 696.06 feet to a point; Thence,
N 00°13'47" E, 20.00 feet to a point; Thence,
N 89°46'13" W, 85.15 feet to a point of curvature; Thence,

Southwesterly, 157.07 feet on the arc of a curve to the left (said curve having a radius of 100.00 feet, a central angle of 89°59'38" and a chord which bears S45°13'58" W, 141.41 feet) to a point of tangency; Thence,

S 00°14'09" W, 275.32 feet to a point, said point being on the Northerly boundary line of Lot 4A, Towne Park Plaza, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on January 29, 2001, in Volume 2001C, Folio 36; Thence,

N 89°45'30" W, 96.00 feet along said Northerly boundary line of said Lot 4A, Towne Park Plaza, to the Southwest corner of the parcel herein described, said point being the Northwest corner of said Lot 4A, Towne Park Plaza, and also being on the Easterly boundary line of Tract B-3A-1, Towne Park Plaza, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on January 29, 2001, in Volume 2001C, Folio 36; Thence,

N 00°14'09" E, 395.29 feet to a point, said point being on the Westerly boundary line of Tract B-2A-1, Towne Park Plaza, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on July 9, 2003, in Volume 2003C, Folio 204, and also being a point on the Southerly boundary line of Tract B-1A-1, Towne Park Plaza, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on July 9, 2003, in Volume 2003C, Folio 204; Thence,

S 89°46'13" E, 162.51 feet along said Southerly boundary line of Tract B-1A-1, Towne Park Plaza, to a point, said point being the Southeast corner of said Tract B-1A-1, Towne Park Plaza; Thence along the Easterly boundary line of said Tract B-1A-1, Towne Park Plaza, for the following eight (8) courses,

N 00°13'34" E, 78.04 feet to a point of curvature; Thence,
Northeasterly, 19.64 feet on the arc of a curve to the right (said curve having a radius of 38.00 feet, a central angle of 29°36'52" and a chord which bears N15°02'00" E, 19.42 feet) to a point of reverse curvature; Thence,

Northeasterly, 25.83 feet on the arc of a curve to the left (said curve having a radius of 50.00 feet, a central angle of 29°35'47" and a chord which bears N15°02'33" E, 25.54 feet) to a point of tangency; Thence,

N 00°14'39" E, 71.73 feet to a point; Thence,
S 89°45'30" E, 63.93 feet to a point; Thence,

N 00°14'39" E, 294.21 feet to a point; Thence,
N 89°45'21" W, 109.92 feet to a point on curve; Thence,

Northeasterly, 48.05 feet on the arc of a curve to the left (said curve having a radius of 538.59 feet, a central angle of 05°06'42" and a chord which bears N16°47'39" E, 48.04 feet) to a point of non-tangent compound curvature and Northwest corner of the parcel herein described, said point being on the Westerly boundary line of Tract 1, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224; Thence along the Southerly boundary line of said Tract 1, Copper Pointe Subdivision, for the following six (6) courses,

Southeasterly, 45.38 feet on the arc of a curve to the left (said curve having a radius of 25.00 feet, a central angle of 103°59'39" and a chord which bears S37°45'31" E, 39.40 feet) to a point of tangency; Thence,

S 89°45'21" E, 47.35 feet to a point of curvature; Thence,

Northeasterly, 17.47 feet on the arc of a curve to the left (said curve having a radius of 15.00 feet, a central angle of 66°44'04" and a chord which bears N56°52'37" E, 16.50 feet) to a point of tangency; Thence,

N 04°22'54" E, 105.27 feet to a point of curvature; Thence,

Northeasterly, 44.93 feet on the arc of a curve to the right (said curve having a radius of 30.00 feet, a central angle of 85°48'09" and a chord which bears N47°16'59" E, 40.84 feet) to a point of tangency; Thence,

S 89°48'57" E, 269.13 feet to a point, said point being the Southeast corner of said Tract 1, Copper Pointe Subdivision; Thence along the Easterly boundary line of said Tract 1, Copper Pointe Subdivision, for the following two (2) courses,

N 00°11'03" E, 38.00 feet to a point; Thence,

N 24°57'56" E, 12.83 feet to a point, said point being on the Southerly boundary line of said Tract 4, Copper Pointe Subdivision; Thence along said Southerly boundary line of said Tract 4, Copper Pointe Subdivision, for the following three (3) courses,

S 84°51'04" E, 545.44 feet to a point of curvature; Thence,
Southeasterly, 147.66 feet on the arc of a curve to the right (said curve having a radius of 130.00 feet, a central angle of 65°04'51" and a chord which bears S32°18'38" E, 139.85 feet) to a point of tangency; Thence,

S 00°13'47" W, 256.48 feet to the point of beginning of the parcel herein described.

Said parcel contains 13.5261 acres gross (589,197 square feet gross), more or less.

LESS AND EXCEPT

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the land encompassed by the ground level exterior face of the building known as Copper Pointe Condominium, being a portion of Tract 5, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and being more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid Bearings (Central Zone - NAD 83) and ground distances rounded to one tenth of a foot as follows:

Beginning at the Southeast corner of the parcel herein described, from whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears N 87°09'44" E, 323.88 feet distant; Thence,

N 89°46'29" W, 503.8 feet to a point; Thence,
S 00°12'23" W, 39.7 feet to a point; Thence,
N 89°44'31" W, 78.8 feet to the Southwest corner of the parcel herein described; Thence,

N 00°16'27" E, 62.9 feet to a point; Thence,
S 89°45'37" E, 77.0 feet to a point; Thence,
N 00°12'23" E, 139.7 feet to a point; Thence,
S 89°47'37" E, 20.7 feet to a point; Thence,
N 00°03'44" E, 9.5 feet to a point; Thence,
S 89°47'37" E, 0.8 feet to a point; Thence,
N 00°03'44" E, 23.3 feet to a point; Thence,
S 89°56'16" E, 0.8 feet to a point; Thence,
N 00°03'44" E, 5.2 feet to a point; Thence,
N 89°56'16" W, 21.2 feet to a point; Thence,
N 00°17'59" E, 79.3 feet to a point; Thence,
S 89°42'01" E, 0.5 feet to a point; Thence,
N 00°08'39" E, 86.3 feet to the Northwest corner of the parcel herein described; Thence,

S 89°45'40" E, 86.4 feet to a point; Thence,
S 00°22'00" W, 1.3 feet to a point; Thence,
S 89°38'00" E, 18.8 feet to a point; Thence,
S 00°08'22" W, 21.4 feet to a point; Thence,
S 89°39'11" E, 12.8 feet to a point; Thence,
S 00°08'22" W, 0.8 feet to a point; Thence,
S 89°39'11" E, 32.6 feet to a point; Thence,
N 00°20'49" E, 22.3 feet to a point; Thence,
S 89°39'11" E, 18.8 feet to a point; Thence,
N 00°20'49" E, 1.5 feet to a point; Thence,
S 89°39'11" E, 85.4 feet to a point; Thence,

S 89°26'53" E, 48.4 feet to a point; Thence,
N 00°14'42" E, 0.7 feet to a point; Thence,
S 89°45'18" E, 2.0 feet to a point; Thence,
S 00°14'42" W, 0.7 feet to a point; Thence,
S 89°45'18" E, 49.5 feet to a point; Thence,
N 00°14'42" E, 0.7 feet to a point; Thence,
S 89°45'18" E, 2.0 feet to a point; Thence,
S 00°14'42" W, 0.7 feet to a point; Thence,
S 89°45'18" E, 48.0 feet to a point; Thence,
N 00°14'42" E, 0.7 feet to a point; Thence,
S 89°45'18" E, 2.0 feet to a point; Thence,
S 00°14'42" W, 0.7 feet to a point; Thence,
S 89°45'18" E, 48.0 feet to a point; Thence,
N 00°14'42" E, 0.7 feet to a point; Thence,
S 89°45'18" E, 2.0 feet to a point; Thence,
S 00°14'42" W, 0.7 feet to a point; Thence,
S 89°45'18" E, 1.2 feet to a point; Thence,
S 00°14'42" W, 7.1 feet to a point; Thence,
S 89°45'18" E, 0.9 feet to a point; Thence,

S 52°24'50" E, 12.4 feet to a point; Thence,
S 37°35'10" W, 0.6 feet to a point; Thence,
S 52°24'50" E, 28.1 feet to a point; Thence,
N 37°35'10" E, 0.6 feet to a point; Thence,
S 52°24'50" E, 12.3 feet to a point; Thence,
S 22°38'08" E, 0.6 feet to a point; Thence,
S 89°47'29" E, 6.6 feet to a point; Thence,
S 00°21'43" W, 1.2 feet to a point; Thence,
S 89°38'17" E, 0.7 feet to a point; Thence,
S 00°21'43" W, 2.0 feet to a point; Thence,
N 89°38'17" W, 0.7 feet to a point; Thence,
S 00°21'43" W, 39.5 feet to a point; Thence,
S 89°38'17" E, 0.7 feet to a point; Thence,
S 00°21'43" W, 2.0 feet to a point; Thence,
N 89°38'17" W, 0.7 feet to a point; Thence,
S 00°21'43" W, 38.1 feet to a point; Thence,
S 89°38'17" E, 0.7 feet to a point; Thence,

S 00°21'43" W, 2.0 feet to a point; Thence,

N 89°38'17" W, 0.7 feet to a point; Thence,

S 00°21'43" W, 1.2 feet to a point; Thence,

N 89°41'03" W, 21.8 feet to a point; Thence,

S 00°12'42" W, 3.0 feet to a point; Thence,

N 89°41'03" W, 0.7 feet to a point; Thence,

S 00°12'42" W, 28.0 feet to a point; Thence,

S 89°43'35" E, 0.7 feet to a point; Thence,

S 00°12'42" W, 3.1 feet to a point; Thence,

S 89°43'35" E, 21.8 feet to a point; Thence,

S 00°17'14" W, 1.3 feet to a point; Thence,

S 89°42'46" E, 0.7 feet to a point; Thence,

S 00°17'14" W, 2.0 feet to a point; Thence,

N 89°42'46" W, 0.7 feet to a point; Thence,

S 00°17'14" W, 40.1 feet to a point; Thence,

S 89°42'46" E, 0.5 feet to a point; Thence,

S 00°11'56" W, 25.6 feet to a point; Thence,

N 89°48'04" W, 1.5 feet to a point; Thence,

S 00°11'56" W, 115.2 feet to a point; Thence,

S 89°46'43" E, 0.4 feet to a point; Thence,

S 00°13'17" W, 22.3 feet to the point of beginning of the parcel herein described.

Said parcel contains 4.2804 acres (186,454 square feet), more or less.

LESS THAN EXCEPTING THE FOLLOWING DESCRIBED PARCEL:

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the land containing the volley ball courts for Units D and G being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof, filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and being more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid Bearings (Central Zone - NAD 83) and ground distances as follows:

Beginning at the Southeast corner of the parcel herein described, whence the Southeast corner of said Tract 5, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and also being an angle point in the Northerly boundary line of The Presidio, Unit 2, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on June 7, 2007, in Volume 2007C, Folio 158 bears S 86°18' 51" E, 596.31 feet distant; Thence,

N 89° 48' 48" W , 84.00 feet to the Southwest corner of the parcel herein described; Thence,

N 00° 11' 12" E , 72.00 feet to the Northwest corner of the parcel herein described; Thence,

S 89° 48' 48" E , 98.00 feet to the Northeast corner of the parcel herein described; Thence,

S 00° 11' 12" W , 14.00 feet to a point; Thence,

N 89° 48' 48" W , 14.00 feet to a point; Thence,

S 00° 11' 12" W , 58.00 feet to the point of beginning of the parcel herein described.

Said parcel contains 0.1433 acres (6,242 square feet), more or less.

AND LESS THAN EXCEPTING THE FOLLOWING DESCRIBED PARCEL:

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the land containing the parking area north of the existing building, being a Northerly portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof, filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and being more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Southwest corner of the parcel herein described, a point on the Westerly line of said Tract 5 whence the Southeast corner of said Tract 5, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and also being an angle point in the Northerly boundary line of The Presidio, Unit 2, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on June 7, 2007, in Volume 2007C, Folio 158 bears S 56° 47' 25 E, 861.18 feet distant; Thence,

N 00° 14' 38" E , 47.82 feet to a point; Thence,

N 89° 45' 21" W , 109.92 feet to a non-tangent point on curve; Thence,

Northeasterly , 48.05 feet on the arc of a curve to the left (said curve having a radius of 538.59 feet, a central angle of 05° 06' 42" and a chord which bears N 16° 47' 39" E, 48.04 feet) to a point of non-tangent compound curvature; Thence,

Southeasterly , 45.38 feet on the arc of a curve to the left (said curve having a radius of 25.00 feet, a central angle of 103° 59' 39" and a chord which bears S 37° 45' 31" E, 39.40 feet) to a point of tangency; Thence,

S 89° 45' 21" E , 47.35 feet to a point of curvature; Thence,

Northeasterly , 17.47 feet on the arc of a curve to the left (said curve having a radius of 15.00 feet, a central angle of 66° 44' 04" and a chord which bears N 56° 52' 37" E, 16.50 feet) to a point of tangency; Thence,

N 04° 22' 54" E , 105.27 feet to a point to a point of curvature; Thence,

Northeasterly , 44.93 feet on the arc of a curve to the right (said curve having a radius of 30.00 feet, a central angle of 85° 48' 09" and a chord which bears N 47° 16' 59" E, 40.84 feet) to a point of tangency; Thence,

S 89° 48' 57" E , 269.13 feet to a point; Thence,

N 00° 11' 03" E , 38.00 feet to a point; Thence,

FIRST AMENDMENT TO
AMENDED AND RESTATED CONDOMINIUM PLAT OF
COPPER POINTE CONDOMINIUM
COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
SITUATE WITHIN
SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

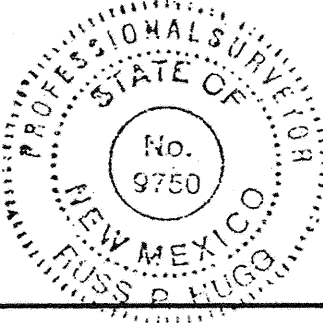
N 24° 57' 56"E , 12.83 feet to a point; Thence,
S 84° 51' 04"E , 545.44 feet to a point; Thence,
Southeasterly , 44.15 feet on the arc of a curve to the right (said curve having a radius of 130.00 feet, a central angle of 19° 27' 41" and a chord which bears S 55° 07' 13" E, 43.94 feet) to a non-tangent point on curve and the Southeast corner of the parcel herein described; Thence,
N 89° 45' 18"W , 831.97 feet to the point of beginning of the parcel herein described.

Said parcel contains 3.0812 acres (134,218 square feet), more or less.

The Reserved Development Rights Area as described above now contains 6.0212 acres net (262,283 square feet net).

RESERVED DEVELOPMENT RIGHTS

- Right to subdivide any Unit created into additional Units of a size less than the Minimum Unit Size (as defined in the Restated Condominium Declaration), with or without appurtenant Limited Common Elements.
- Right to create Units by combining Units owned by Declarant by relocation of Unit boundaries between existing Units.
- Right to convert any Unit previously created into Common Elements.
- Right to create an additional five (5) Units on the Condominium Property, within portions of the building located on the Condominium Property owned by Declarant and identified on the Plat and Plans attached as RDR Lower Level Area, with or without appurtenant Limited Common Elements and Common Elements.
- Right to create on all or a portion of the Real Estate described as RDR Area up to five (5) additional Units.
- Right to create on all or a portion of the Real Estate described as RDR Walkway Area up to five (5) additional Units to be combined with Unit F or Unit G, or both Unit F and Unit G.
- Right to create an additional five (5) Units on the Condominium Property, within portions of the building located on the Condominium Property owned by Declarant and identified on the Plat and Plans attached as RDR Upper Level Area, with or without appurtenant Limited Common Elements and Common Elements.
- Right to create Common Elements to be used for storage or other uses within any portion of the Condominium Property.
- Right to withdraw all or a portion of the Real Estate described as RDR Area from the Condominium.
- Right to add all or any portion of the real property known as "Tract 1", "Tract 2", "Tract 3" and "Tract 4" as shown on the plat of survey titled: "COPPER POINTE SUBDIVISION (Being a Replat of Tract B, The Presidio), situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico . . .", filed in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008, in Book 2008C, Page 0224, as Document No. 2008111348 to the Condominium and to create up to twenty-five (25) additional Units or create Common Elements or Limited Common Elements or any combination thereof.
- Right to make improvements in any Limited Common Element in the form of the construction of portals, patios, walls, fences, storage facilities or areas and other improvements.



SHEET 2 OF 12

SURV TEK, INC.

Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377
Phone: 505-897-3386

FIRST AMENDMENT TO
AMENDED AND RESTATED CONDOMINIUM PLAT OF
COPPER POINTE CONDOMINIUM
COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
SITUATE WITHIN
SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

LEGAL DESCRIPTION

RESERVED DEVELOPMENT RIGHTS AREA (RDR WALKWAY AREA)

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the area containing the Second Story Walkway adjacent to and South of Unit F, being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008 in Volume 2008C, Folio 224 more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Northeast corner of the parcel herein described, said point being a point on the Southerly line of said Unit F whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears S 55° 56' 15" E, 710.84 feet distant; Thence,

S 00° 25' 00" W , 6.3 feet to a point; Thence,
N 89° 56' 38" W , 47.9 feet to a point; Thence,
S 00° 11' 15" W , 89.9 feet to a point; Thence,
N 89° 56' 16" W , 6.2 feet to a point; Thence,
N 00° 10' 03" E , 1.0 feet to a point; Thence,
N 89° 49' 58" W , 5.3 feet to a point; Thence,
N 00° 10' 03" E , 8.6 feet to a point; Thence,
S 89° 49' 56" E , 4.7 feet to a point; Thence,
N 00° 10' 03" E , 6.0 feet to a point; Thence,
N 00° 11' 15" E , 80.6 feet to a point; Thence,

S 89° 52' 23" E , 54.67 feet to to the point of beginning of the parcel herein described.

Said parcel contains 992 square feet, more or less.

LEGAL DESCRIPTION

RESERVED DEVELOPMENT RIGHTS AREA (RDR LOWER LEVEL AREA)

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the First Floor Area lying between Units J, I and D-1, being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008 in Volume 2008C, Folio 224 more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Northwest corner of said Unit A-1 also being the Northeast corner of said Unit J whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears S 48° 44' 46" E, 529.44 feet distant; Thence,

S 89° 45' 18" E , 26.0 feet to a point; Thence,
S 00° 14' 42" W , 6.9 feet to a point; Thence,
S 89° 45' 18" E , 1.3 feet to a point; Thence,
S 52° 24' 50" E , 12.0 feet to a point; Thence,
N 37° 35' 10" E , 0.2 feet to a point; Thence,
S 52° 24' 50" E , 28.1 feet to a point; Thence,
S 37° 35' 10" W , 0.2 feet to a point; Thence,
S 52° 24' 50" E , 12.0 feet to a point; Thence,
S 22° 38' 08" E , 0.7 feet to a point; Thence,
S 89° 47' 29" E , 6.1 feet to a point; Thence,
S 00° 21' 43" W , 84.4 feet to a point; Thence,
S 00° 12' 42" W , 3.8 feet to a point; Thence,
S 89° 41' 03" E , 0.4 feet to a point; Thence,
S 00° 12' 42" W , 28.0 feet to a point; Thence,
N 89° 43' 55" W , 0.4 feet to a point; Thence,
S 00° 12' 42" W , 3.9 feet to a point; Thence,
S 89° 43' 35" E , 22.0 feet to a point; Thence,
S 00° 17' 14" W , 41.7 feet to a point; Thence,
N 89° 45' 48" W , 125.2 feet to a point; Thence,
S 00° 14' 12" W , 19.5 feet to a point; Thence,
N 89° 45' 48" W , 28.3 feet to a point; Thence,
S 00° 14' 12" W , 62.7 feet to a point; Thence,
S 89° 45' 48" E , 24.1 feet to a point; Thence,
S 00° 14' 12" W , 80.0 feet to a point; Thence,
N 89° 46' 29" W , 80.0 feet to a point; Thence,
N 00° 14' 29" E , 102.1 feet to a point; Thence,
N 40° 46' 17" W , 16.6 feet to a point; Thence,
N 00° 14' 29" E , 47.0 feet to a point; Thence,
S 89° 45' 31" E , 76.3 feet to a point; Thence,
N 00° 14' 29" E , 89.5 feet to a point; Thence,
S 89° 45' 31" E , 43.9 feet to a point; Thence,
N 00° 14' 29" E , 57.2 feet to a point; Thence,
S 89° 45' 31" E , 26.0 feet to a point; Thence,
N 00° 14' 29" E , 54.8 feet to a point; Thence,

S 89° 45' 18" E , 26.0 feet to the point of beginning of the parcel herein described.

Said parcel contains 33,011 square feet, more or less.

LEGAL DESCRIPTION

RESERVED DEVELOPMENT RIGHTS AREA (RDR UPPER LEVEL AREA)

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the Second Floor Area lying between Units J and I, being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008 in Volume 2008C, Folio 224 more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Northwest corner of said Unit A-1 also being the Northeast corner of said Unit J whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears S 48° 44' 46" E, 529.44 feet distant; Thence,

S 89° 45' 18" E , 26.0 feet to a point; Thence,
S 00° 14' 42" W , 6.9 feet to a point; Thence,
S 89° 45' 18" E , 1.3 feet to a point; Thence,
S 52° 24' 50" E , 12.0 feet to a point; Thence,
N 37° 35' 10" E , 0.2 feet to a point; Thence,
S 52° 24' 50" E , 28.1 feet to a point; Thence,
S 37° 35' 10" W , 0.2 feet to a point; Thence,
S 52° 24' 50" E , 12.0 feet to a point; Thence,
S 22° 38' 08" E , 0.7 feet to a point; Thence,
S 89° 47' 29" E , 6.1 feet to a point; Thence,
S 00° 21' 43" W , 84.4 feet to a point; Thence,
N 89° 41' 03" W , 21.9 feet to a point; Thence,
S 00° 12' 42" W , 3.8 feet to a point; Thence,
S 89° 41' 03" E , 0.4 feet to a point; Thence,
S 00° 12' 42" W , 28.0 feet to a point; Thence,
N 89° 43' 55" W , 0.4 feet to a point; Thence,
S 00° 12' 42" W , 3.9 feet to a point; Thence,
S 89° 43' 35" E , 21.9 feet to a point; Thence,
S 00° 17' 14" W , 41.7 feet to a point; Thence,
N 89° 45' 48" W , 93.6 feet to a point; Thence,
S 00° 14' 12" W , 15.5 feet to a point; Thence,
N 89° 45' 48" W , 7.5 feet to a point; Thence,
N 00° 14' 12" E , 15.5 feet to a point; Thence,
S 89° 45' 48" E , 43.6 feet to a point; Thence,
N 00° 14' 29" E , 89.5 feet to a point; Thence,
S 89° 45' 31" E , 43.9 feet to a point; Thence,
N 00° 14' 29" E , 57.2 feet to a point; Thence,
S 89° 45' 31" E , 26.0 feet to a point; Thence,
N 00° 14' 29" E , 54.8 feet to the point of beginning of the parcel herein described.

Said parcel contains 21,023 square feet, more or less.

AND

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the Second Floor Area lying between Units D-1 and I and South of Unit J, being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008 in Volume 2008C, Folio 224 more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Southeast corner of said Unit A-1 whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears S 87° 28' 50" E, 325.90 feet distant; Thence,

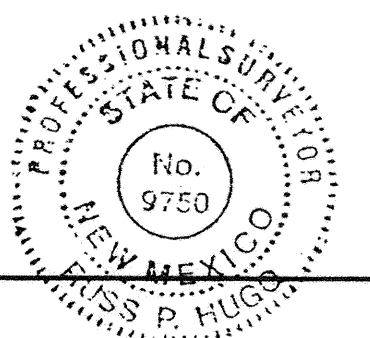
N 89° 46' 29" W , 226.4 feet to a point; Thence,
N 00° 10' 03" E , 23.5 feet to a point; Thence,
N 44° 49' 57" W , 11.6 feet to a point; Thence,
N 45° 10' 03" E , 15.7 feet to a point; Thence,
S 89° 49' 57" E , 8.0 feet to a point; Thence,
N 00° 10' 03" E , 57.7 feet to a point; Thence,
N 40° 50' 43" W , 18.2 feet to a point; Thence,
N 00° 10' 03" E , 47.3 feet to a point; Thence,
S 89° 45' 31" E , 84.0 feet to a point; Thence,
S 00° 14' 12" W , 81.4 feet to a point; Thence,
S 89° 45' 48" E , 24.1 feet to a point; Thence,
S 00° 14' 12" W , 4.8 feet to a point; Thence,
N 89° 45' 48" W , 5.7 feet to a point; Thence,
S 00° 14' 12" W , 20.5 feet to a point; Thence,
S 89° 45' 48" E , 5.7 feet to a point; Thence,
S 00° 14' 12" W , 22.5 feet to a point; Thence,
S 89° 45' 48" E , 42.2 feet to a point; Thence,
N 00° 14' 12" E , 1.8 feet to a point; Thence,
S 89° 45' 48" E , 35.1 feet to a point; Thence,
N 00° 14' 12" E , 7.8 feet to a point; Thence,
S 89° 45' 48" E , 15.5 feet to a point; Thence,
N 00° 14' 12" E , 33.3 feet to a point; Thence,
N 89° 45' 48" W , 65.5 feet to a point; Thence,
N 00° 14' 12" E , 5.0 feet to a point; Thence,
S 89° 45' 48" E , 100.8 feet to a point; Thence,
S 00° 11' 56" W , 80.2 feet to the point of beginning of the parcel herein described.

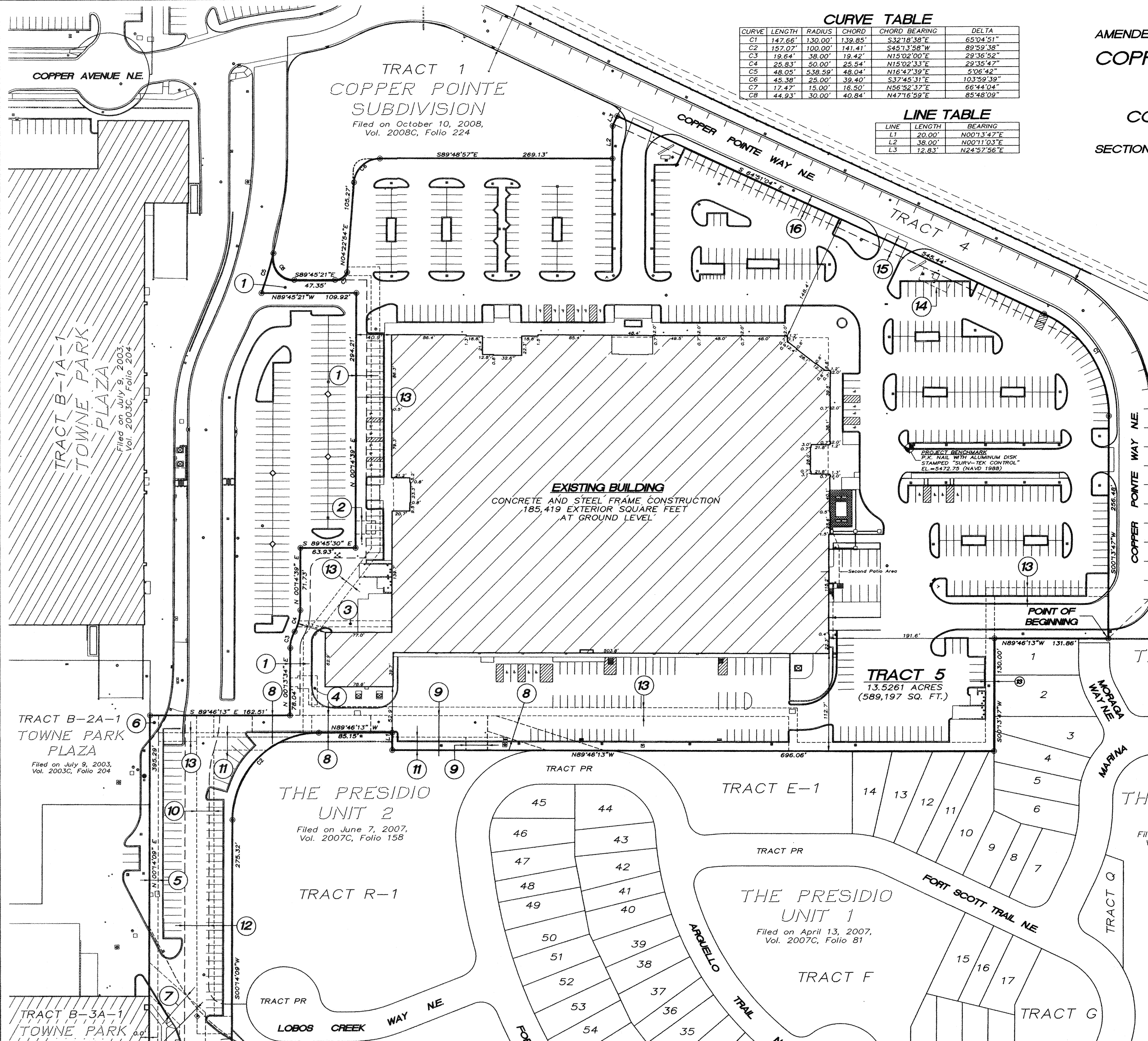
Said parcel contains 19,804 square feet, more or less.

SHEET 3 OF 12

SURV  **TEK, INC.**

Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377
Phone: 505-897-3366





| CURVE TABLE | | | | | |
|-------------|---------|---------|---------|---------------|------------|
| CURVE | LENGTH | RADIUS | CHORD | CHORD BEARING | DELTA |
| C1 | 147.66' | 130.00' | 139.85' | S32°18'38"E | 65°04'51" |
| C2 | 157.07' | 100.00' | 141.41' | S45°13'58"W | 89°59'38" |
| C3 | 19.64' | 38.00' | 19.42' | N15°02'00"E | 29°36'52" |
| C4 | 28.83' | 50.00' | 28.54' | N15°02'33"E | 29°35'47" |
| C5 | 48.05' | 538.59' | 48.04' | N16°47'39"E | 5°06'42" |
| C6 | 45.38' | 25.00' | 39.40' | S37°45'31"E | 103°59'39" |
| C7 | 17.47' | 15.00' | 16.50' | N56°52'37"E | 66°44'04" |
| C8 | 44.93' | 30.00' | 40.84' | N47°16'59"E | 85°48'09" |

| LINE TABLE | | |
|------------|--------|-------------|
| LINE | LENGTH | BEARING |
| L1 | 20.00' | N00°13'47"E |
| L2 | 38.00' | N00°11'03"E |
| L3 | 12.83' | N24°57'56"E |

FIRST AMENDMENT TO
AMENDED AND RESTATED CONDOMINIUM PLAT OF
COPPER POINTE CONDOMINIUM
COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
SITUATE WITHIN
SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

NOTE
THE LAND AND CONDOMINIUM BUILDING ARE
SUBJECT TO THE DEVELOPMENT RIGHTS AS
SET FORTH IN THE RESTATED CONDOMINIUM
DECLARATION.

ALBUQUERQUE CONTROL SURVEY
STATION "14-J22"
N.M. State Plane Coordinates
(Central Zone - NAD 83)
X=1,561,191.226
Y=1,487,017.690
Delta Alpha = -00°09'08.03"
Ground to Grid Factor = 0.999644295
Elevation = 5576.441 (NAVD 1988)

COPPER POINTE SUBDIVISION
Filed on October 10, 2008,
Vol. 2008C, Folio 224

THE PRESIDIO UNIT 2 TRACT H-1
Filed on June 7, 2007,
Vol. 2007C, Folio 158

THE PRESIDIO UNIT 1
Filed on April 13, 2007,
Vol. 2007C, Folio 81

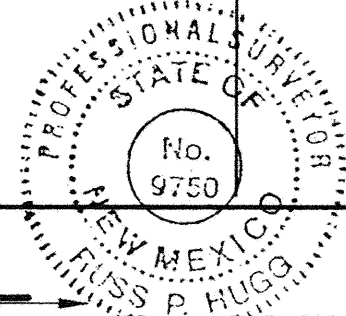
SITE INFORMATION

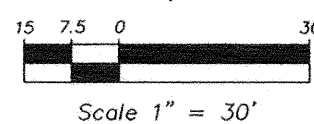
SEE SHEET 1 FOR KEYED EASEMENT INFORMATION

SHEET 4 OF 12

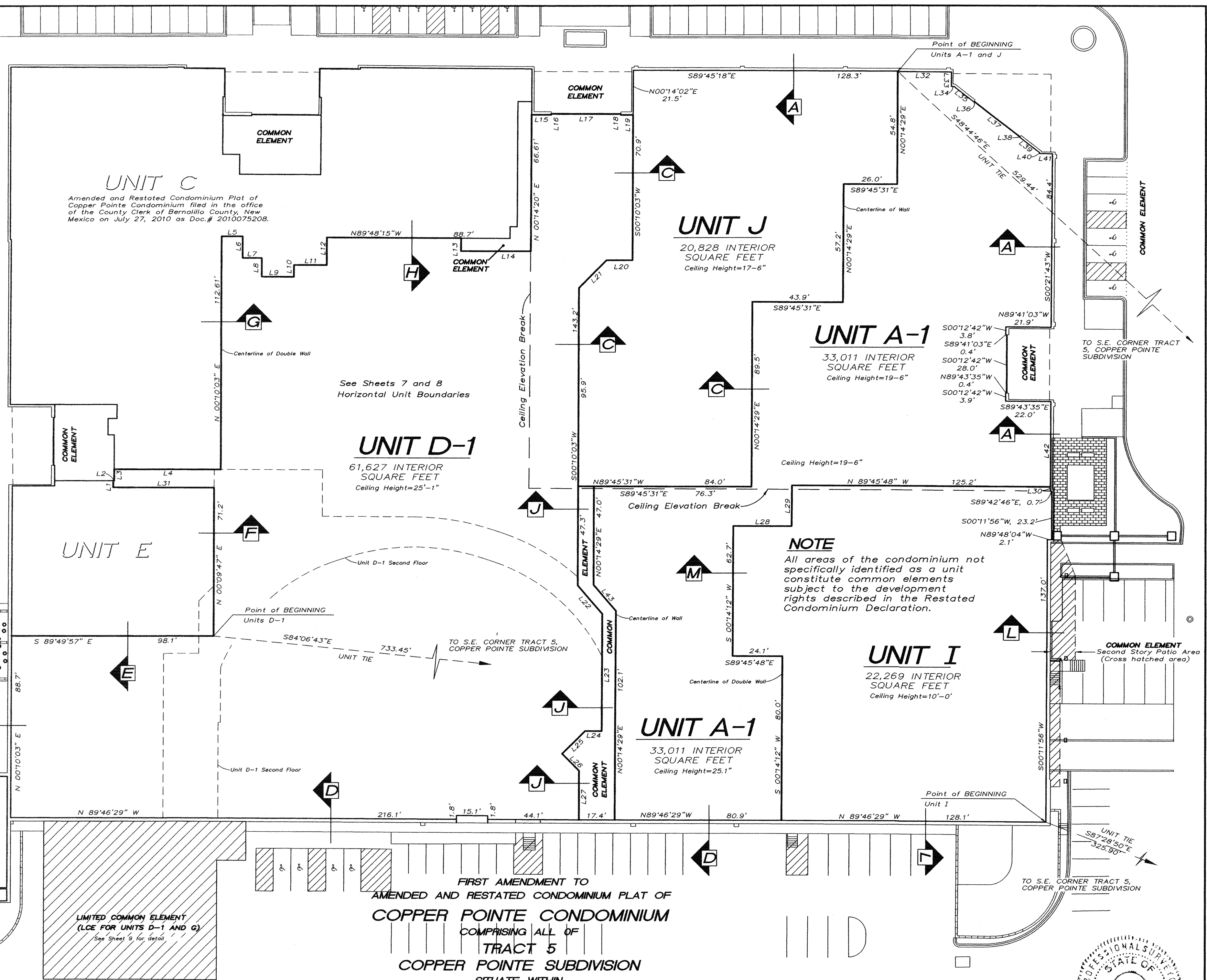
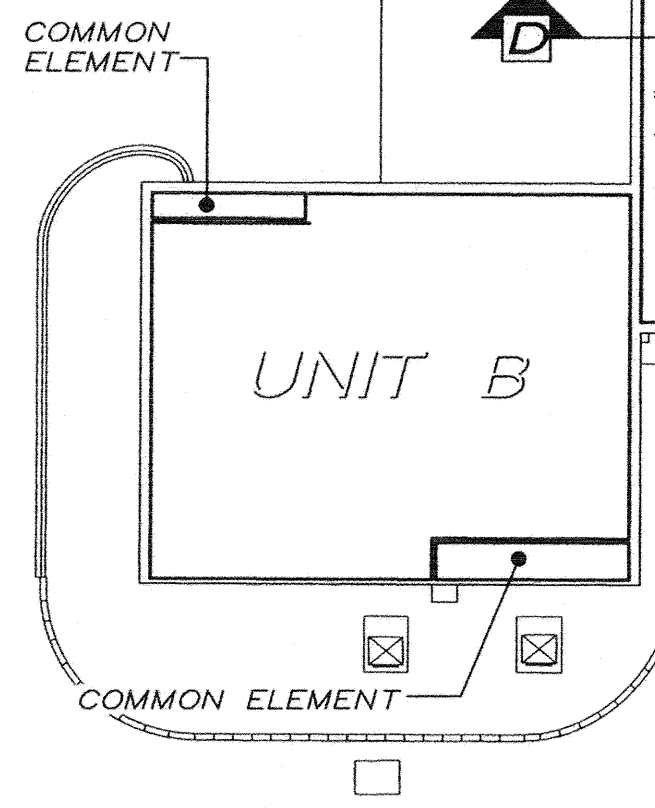
SURV+TEK, INC.

Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377





| LINE | LENGTH | BEARING |
|------|--------|-------------|
| L1 | 4.0 | N00°16'11"E |
| L2 | 0.1 | S89°56'39"E |
| L3 | 5.6 | N00°01'05"E |
| L4 | 51.6 | S89°49'52"E |
| L5 | 10.2 | N89°58'19"E |
| L6 | 10.5 | S00°15'03"W |
| L7 | 9.3 | S89°44'57"E |
| L8 | 8.9 | S00°15'03"W |
| L9 | 15.6 | S89°36'43"E |
| L10 | 5.7 | N00°15'03"E |
| L11 | 15.8 | S89°44'52"E |
| L12 | 13.4 | N00°14'52"E |
| L13 | 6.3 | S00°11'45"W |
| L14 | 33.8 | S89°56'14"E |
| L15 | 9.5 | S89°51'38"E |
| L16 | 0.4 | N00°17'08"E |
| L17 | 33.7 | S89°51'38"E |
| L18 | 0.4 | S00°28'07"W |
| L19 | 6.0 | S89°51'38"E |
| L20 | 12.6 | N89°49'52"W |
| L21 | 18.8 | S45°10'03"W |
| L22 | 18.2 | S40°50'43"E |
| L23 | 57.7 | S00°10'03"W |
| L24 | 8.0 | N89°49'52"W |
| L25 | 15.7 | S45°10'03"W |
| L26 | 11.6 | S44°49'52"E |
| L27 | 23.5 | S00°10'03"W |
| L28 | 28.3 | N89°45'48"W |
| L29 | 19.5 | S00°14'12"W |
| L30 | 2.0 | S00°17'14"W |
| L31 | 48.9 | S89°49'52"E |
| L32 | 26.0 | S89°45'16"E |
| L33 | 6.9 | S00°14'42"W |
| L34 | 1.3 | S89°45'18"E |
| L35 | 12.0 | S82°24'50"E |
| L36 | 0.2 | S32°35'10"E |
| L37 | 28.1 | S82°24'50"E |
| L38 | 0.2 | S32°35'10"W |
| L39 | 12.0 | S82°24'50"E |
| L40 | 0.7 | S22°38'08"E |
| L41 | 6.1 | S89°47'29"E |
| L42 | 41.7 | S00°17'14"W |
| L43 | 16.6 | N40°46'17"W |



FIRST AMENDMENT TO
 AMENDED AND RESTATED CONDOMINIUM PLAT OF
COPPER POINTE CONDOMINIUM
 COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
 SITUATE WITHIN
 SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
 NEW MEXICO PRINCIPAL MERIDIAN
 CITY OF ALBUQUERQUE
 BERNALILLO COUNTY, NEW MEXICO
 SEPTEMBER 2012

NOTE
 All areas of the condominium not specifically identified as a unit constitute common elements subject to the development rights described in the Restated Condominium Declaration.

FIRST FLOOR UNIT INFORMATION

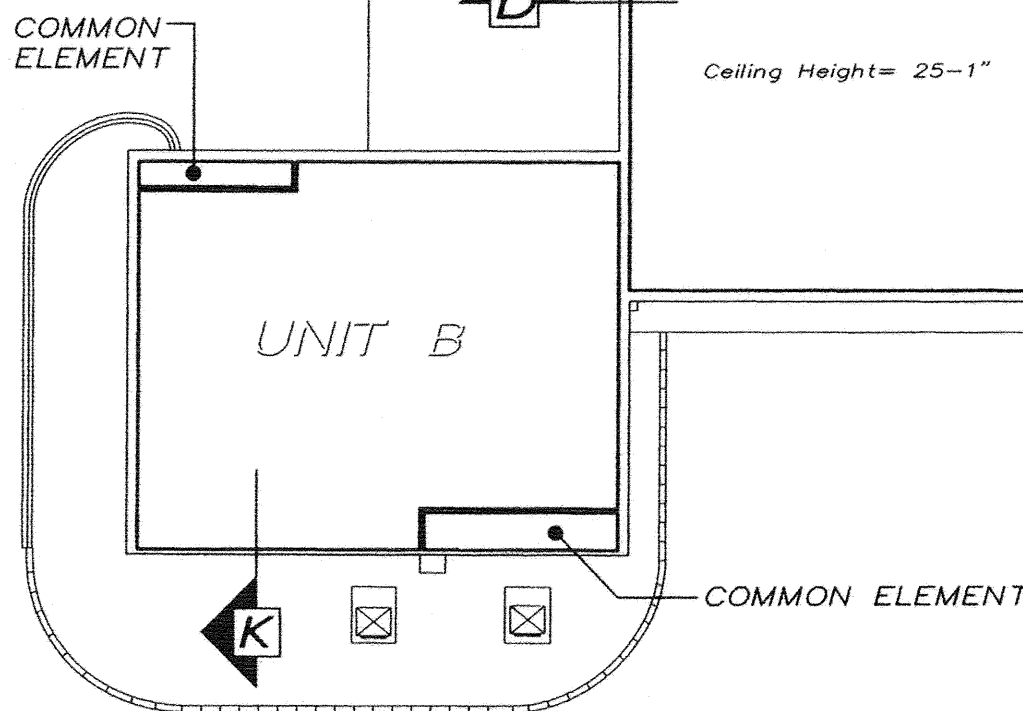
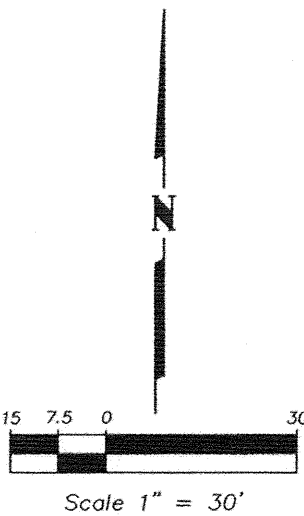
SHEET 5 OF 12

SURV TEK, INC.
 Consulting Surveyors
 9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377

PROFESSIONAL SURVEYOR
 STATE OF NEW MEXICO
 No. 9750
 JESS P. HUGG

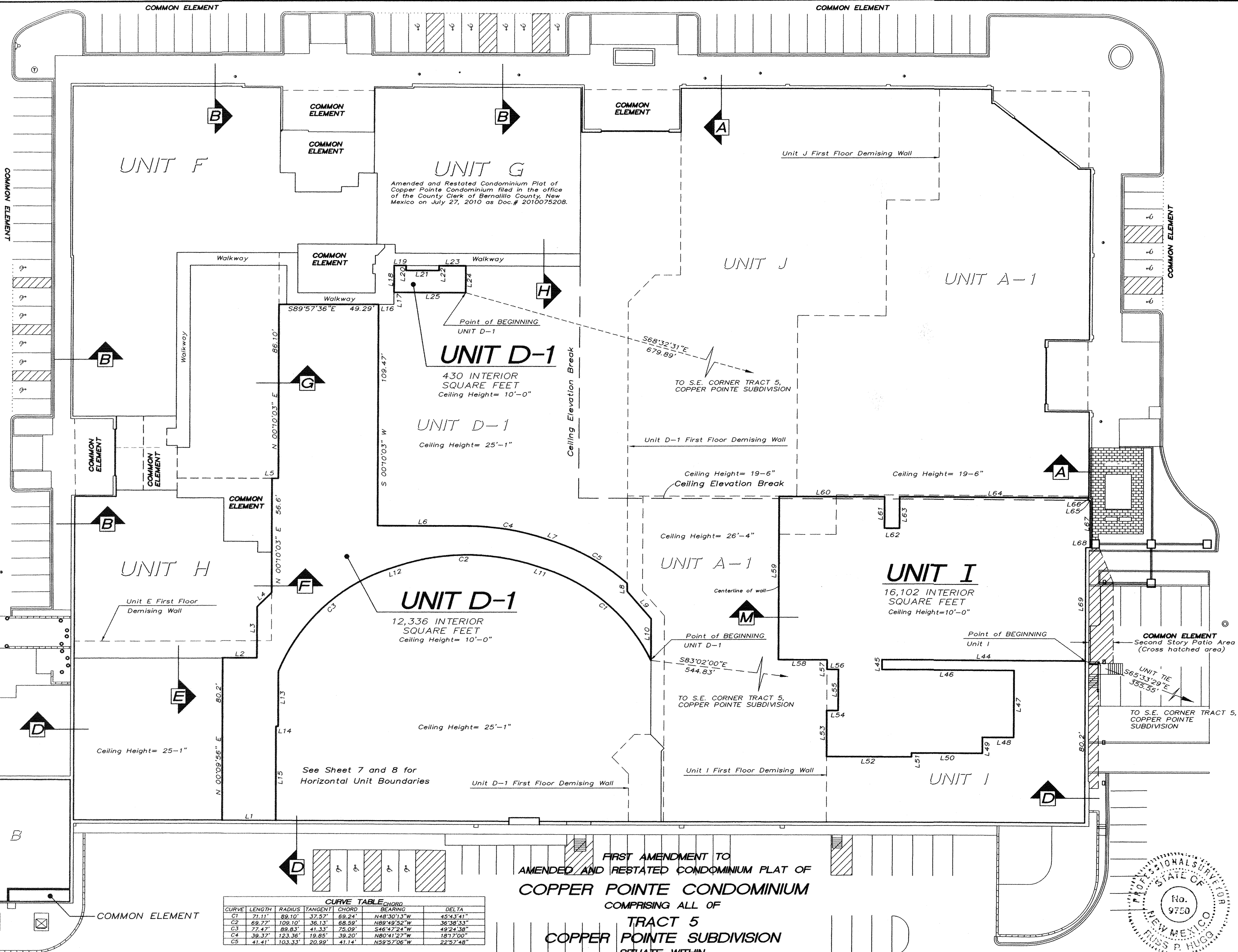
110248. DWG

| LINE | LENGTH | BEARING |
|------|--------|-------------|
| L1 | 26.6 | N89°46'29"W |
| L2 | 17.0 | S89°49'52"E |
| L3 | 25.7 | N00°10'03"E |
| L4 | 10.1 | N45°10'03"E |
| L5 | 3.1 | S89°49'52"E |
| L6 | 44.7 | S89°49'52"E |
| L7 | 5.0 | S71°47'52"E |
| L8 | 4.0 | S00°10'03"W |
| L9 | 18.2 | S40°50'43"E |
| L10 | 21.0 | S00°10'03"W |
| L11 | 5.0 | N71°48'51"W |
| L12 | 5.0 | S72°06'16"W |
| L13 | 27.4 | S00°10'03"W |
| L14 | 1.0 | S89°48'07"W |
| L15 | 46.1 | S00°10'03"W |
| L16 | 7.6 | S89°57'36"E |
| L17 | 5.9 | N00°55'56"E |
| L18 | 13.2 | N00°14'12"E |
| L19 | 5.9 | S89°45'48"E |
| L20 | 2.4 | S00°14'12"W |
| L21 | 16.4 | S89°45'48"E |
| L22 | 2.4 | N00°14'12"E |
| L23 | 13.2 | S89°45'48"E |
| L24 | 13.2 | S00°14'12"W |
| L25 | 35.6 | N89°45'48"W |
| L44 | 100.8 | N89°45'48"W |
| L45 | 5.0 | S00°14'12"W |
| L46 | 65.5 | S89°45'48"E |
| L47 | 33.3 | S00°14'12"W |
| L48 | 15.5 | N89°45'48"W |
| L49 | 7.8 | S00°14'12"W |
| L50 | 35.1 | N89°45'48"W |
| L51 | 1.8 | S00°14'12"W |
| L52 | 42.2 | N89°45'48"W |
| L53 | 22.5 | N00°14'12"E |
| L54 | 5.7 | S89°45'48"E |
| L55 | 20.5 | N00°14'12"E |
| L56 | 3.7 | N89°45'48"W |
| L57 | 4.8 | N00°14'12"E |
| L58 | 24.1 | N89°45'48"W |
| L59 | 81.4 | N00°14'12"E |
| L60 | 52.3 | S89°45'48"E |
| L61 | 15.5 | S00°14'12"W |
| L62 | 7.5 | S89°45'48"E |
| L63 | 15.5 | N00°14'12"E |
| L64 | 93.6 | S89°45'48"E |
| L65 | 1.2 | S00°17'14"W |
| L66 | 0.7 | S89°42'46"E |
| L67 | 23.2 | S00°11'56"W |
| L68 | 2.1 | N89°48'04"W |
| L69 | 56.8 | S00°11'56"W |

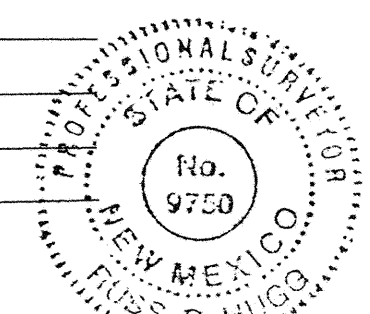


SECOND FLOOR UNIT INFORMATION

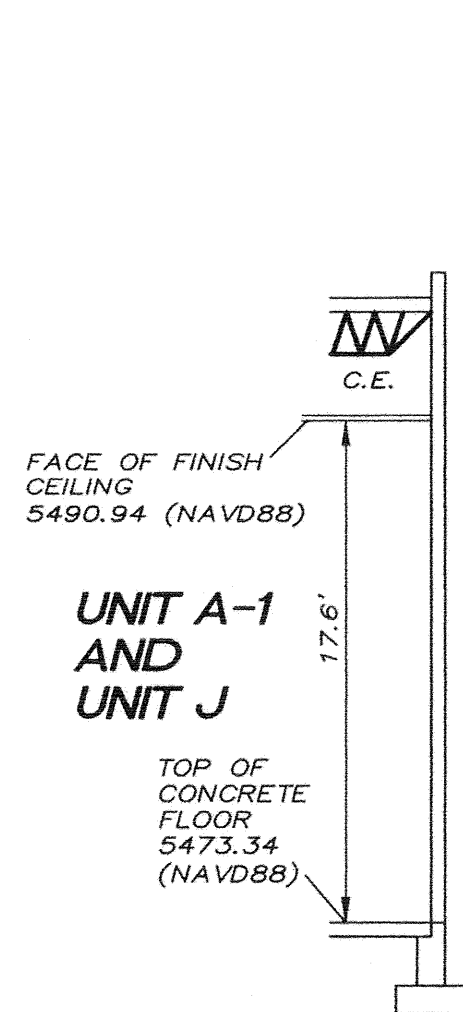
| CURVE | LENGTH | RADIUS | TANGENT | CHORD | BEARING | DELTA |
|-------|--------|---------|---------|--------|-------------|-----------|
| C1 | 71.11' | 89.10' | 37.92' | 69.24' | N48°30'13"W | 45°43'41" |
| C2 | 69.77' | 109.10' | 36.13' | 68.59' | N89°49'52"W | 36°38'33" |
| C3 | 77.47' | 89.83' | 41.33' | 75.09' | S46°42'24"W | 49°24'38" |
| C4 | 39.37' | 123.36' | 19.85' | 39.20' | N80°41'22"W | 18°17'00" |
| C5 | 41.41' | 103.33' | 20.99' | 41.14' | N59°57'06"W | 22°57'48" |



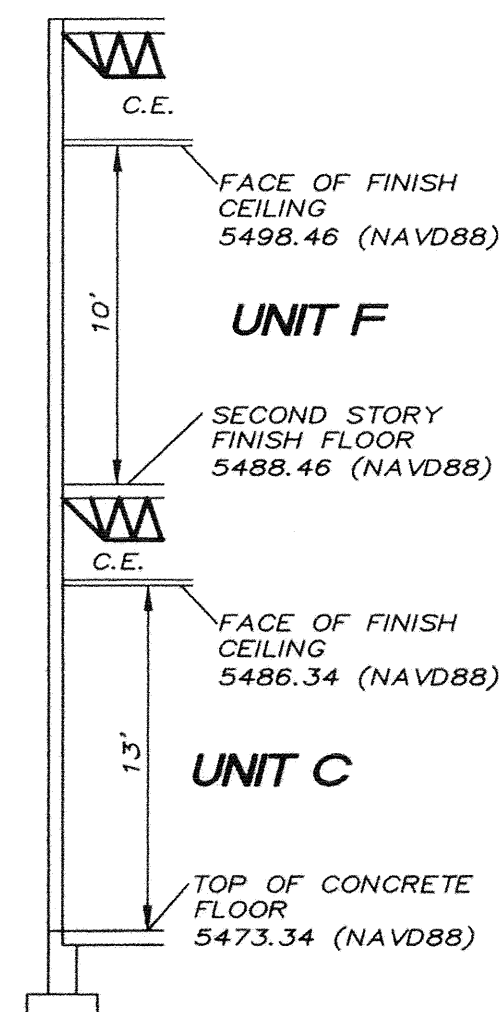
FIRST AMENDMENT TO
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COPPER POINTE CONDOMINIUM
COMPRISING ALL OF
TRACT 5
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SITUATE WITHIN
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NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012



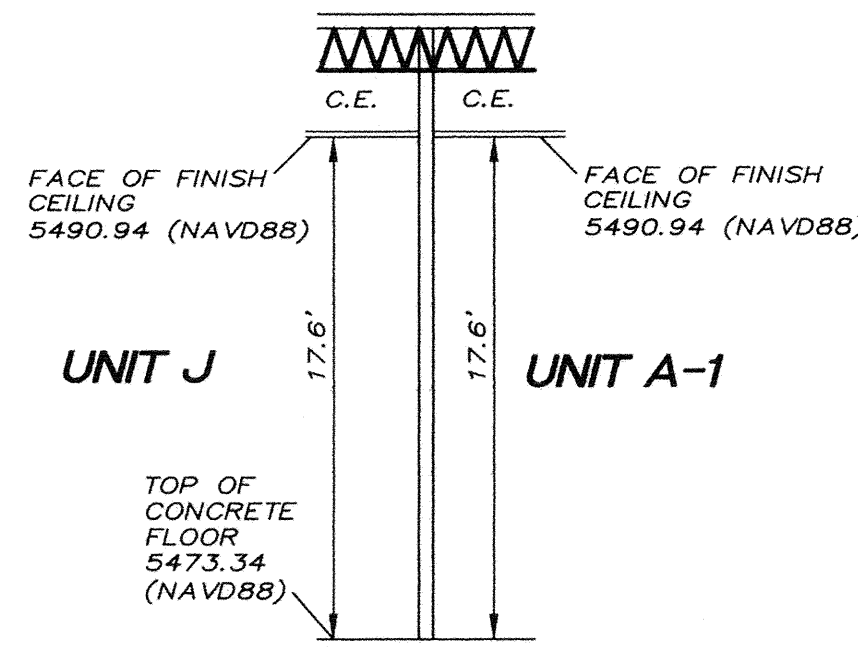
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NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012



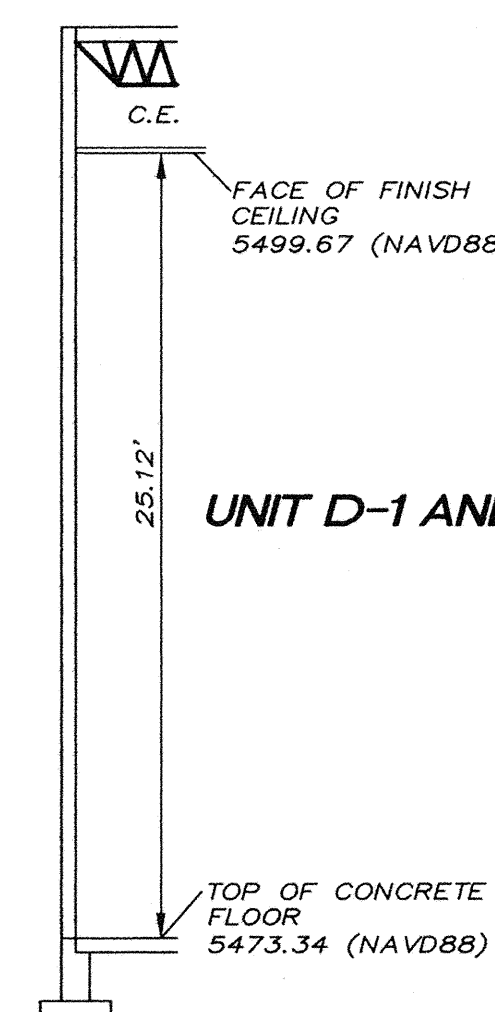
**HORIZONTAL UNIT
BOUNDARY
SECTION A**
NOT TO SCALE



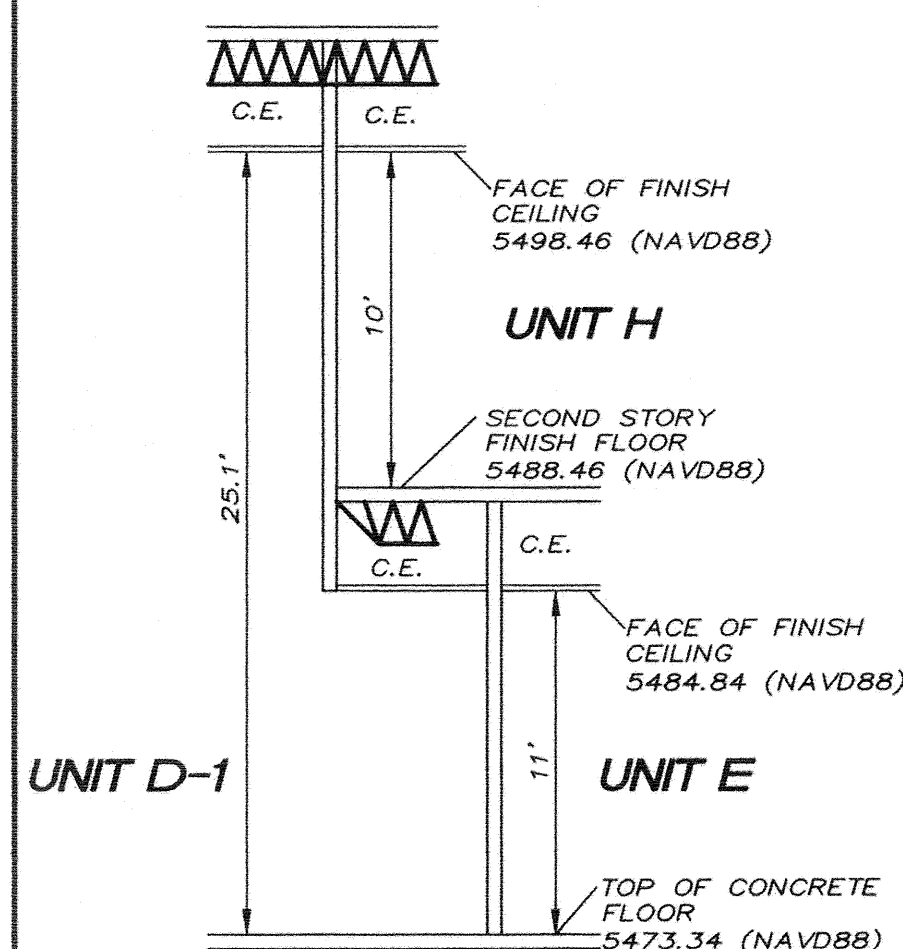
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SECTION B**
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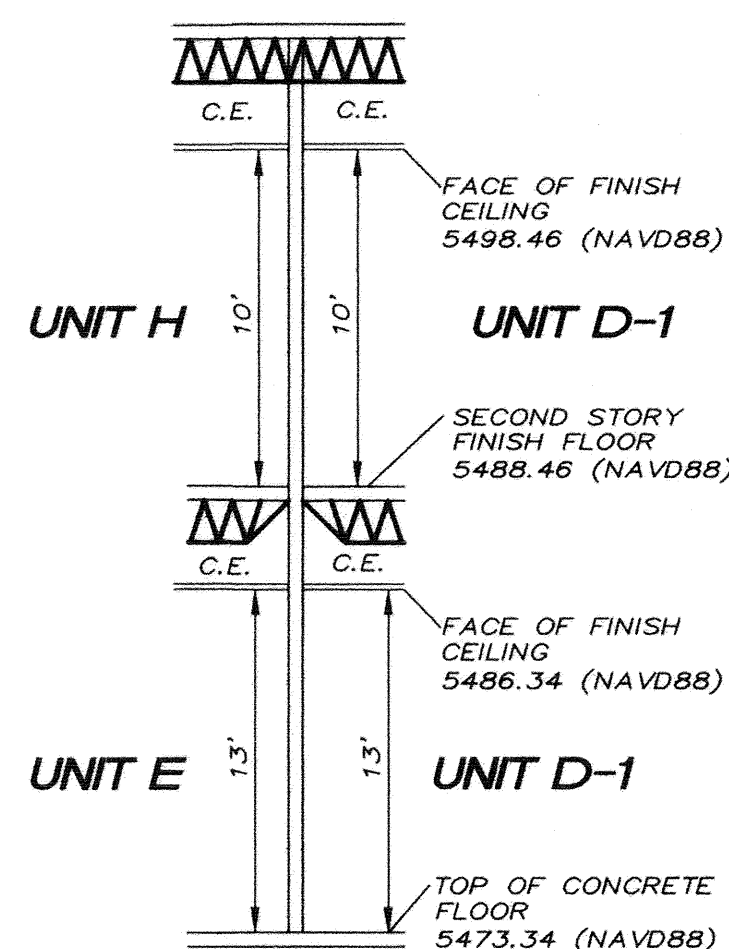
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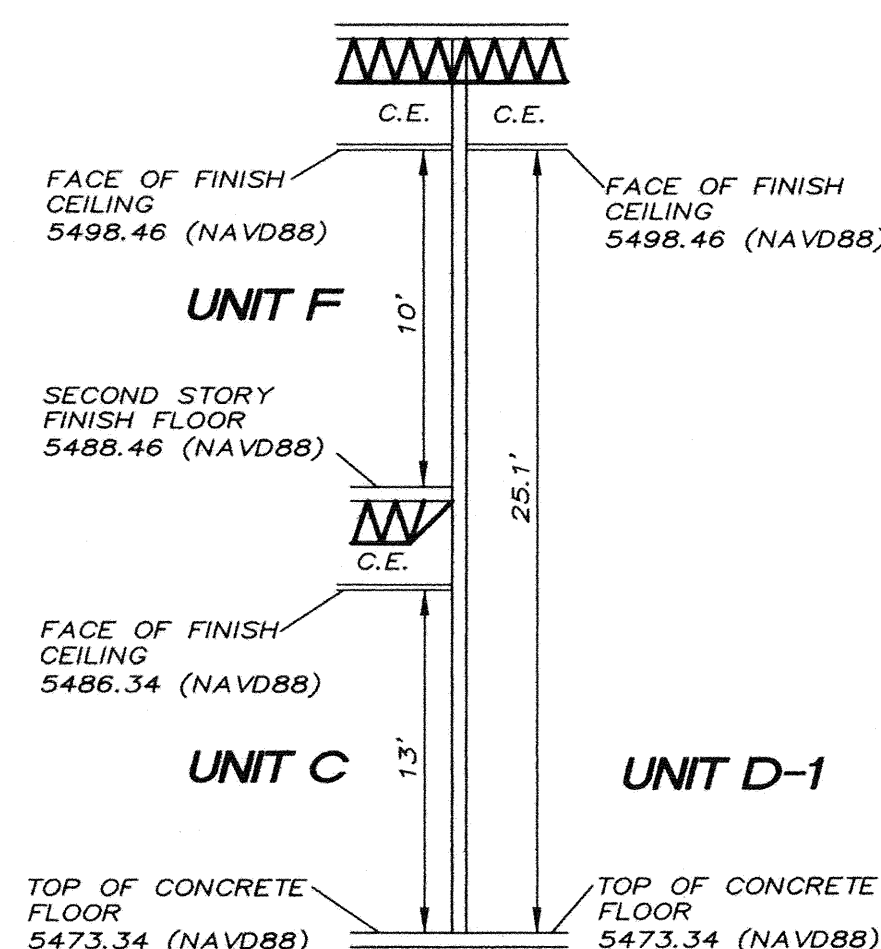
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SECTION D**
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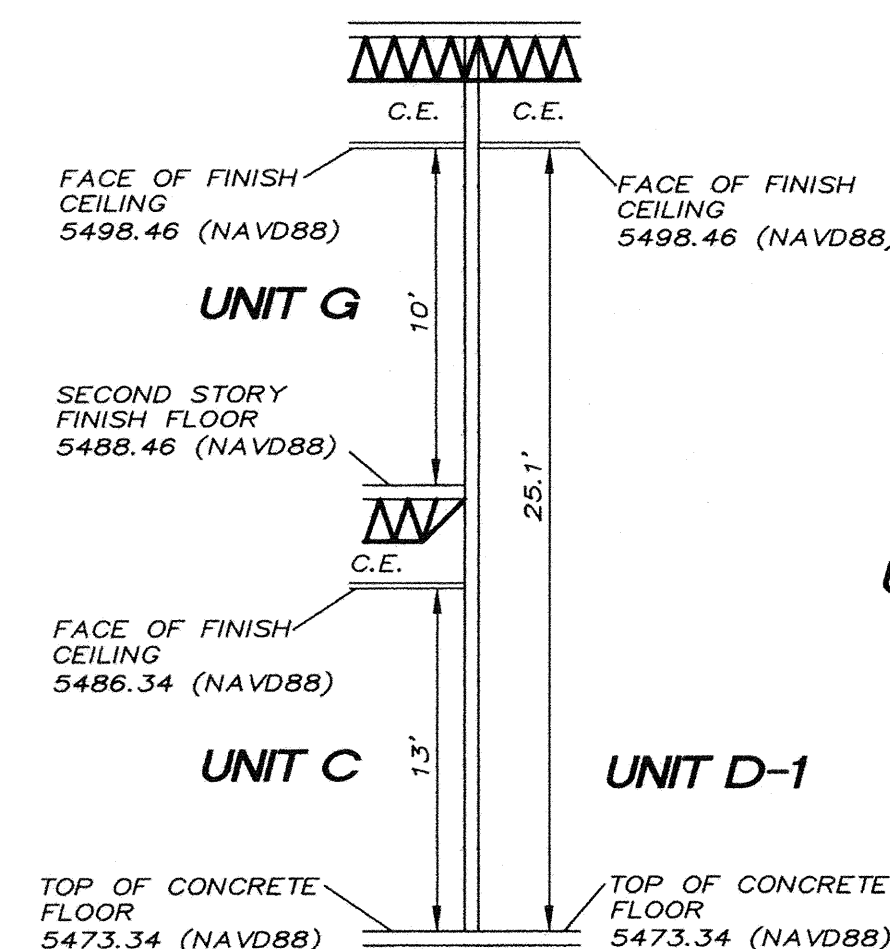
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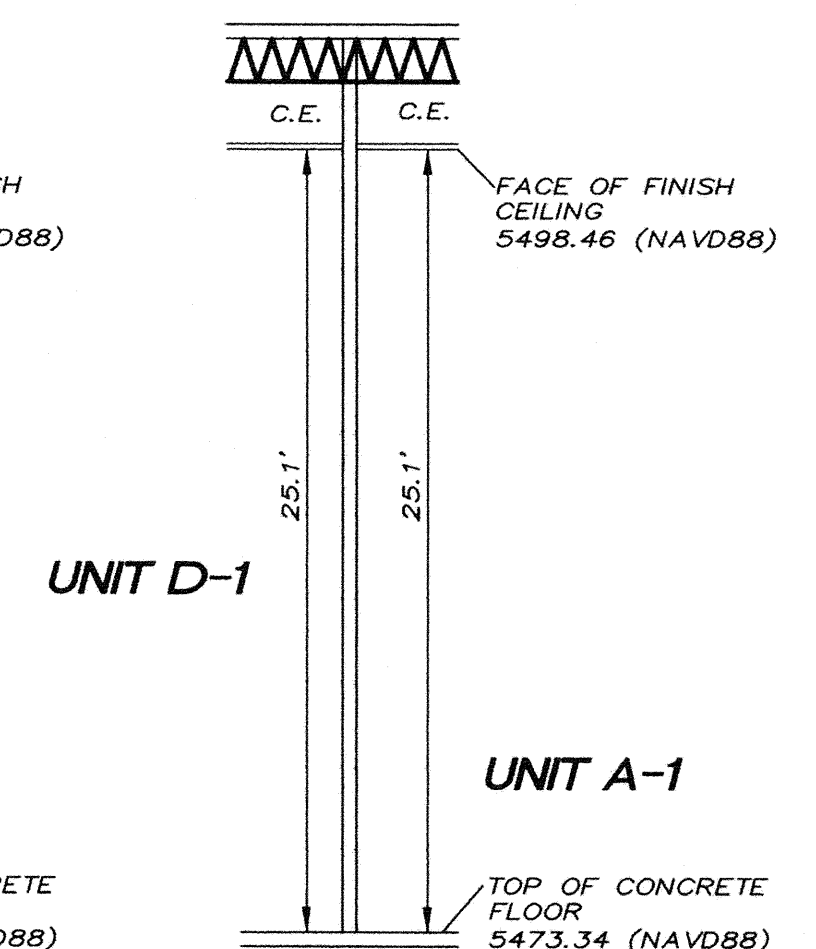
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SECTION F**
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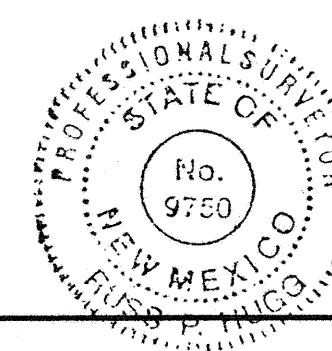
**HORIZONTAL UNIT
BOUNDARY
SECTION G**
NOT TO SCALE



**HORIZONTAL UNIT
BOUNDARY
SECTION H**
NOT TO SCALE



**HORIZONTAL UNIT
BOUNDARY
SECTION J**
NOT TO SCALE

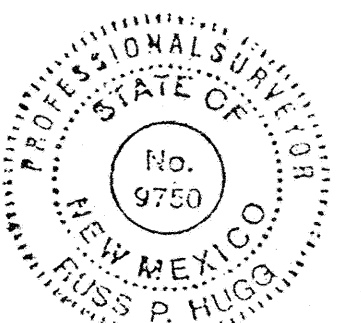
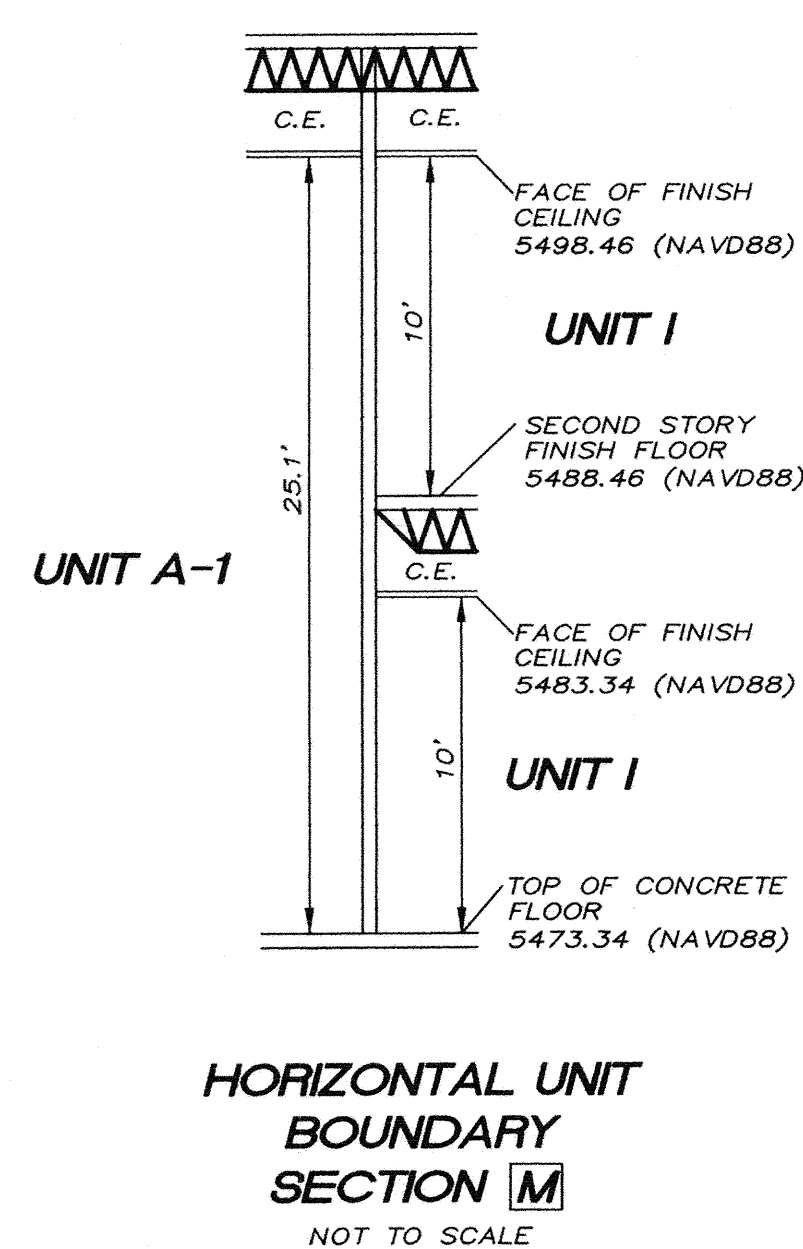
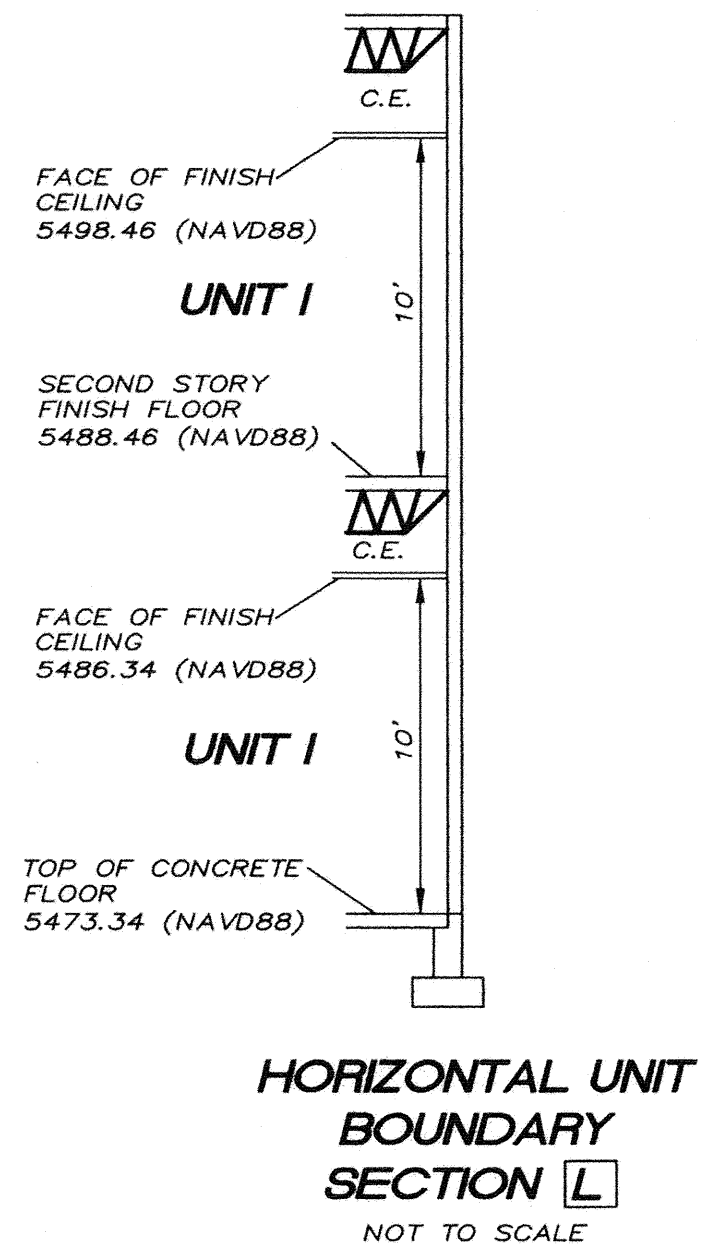
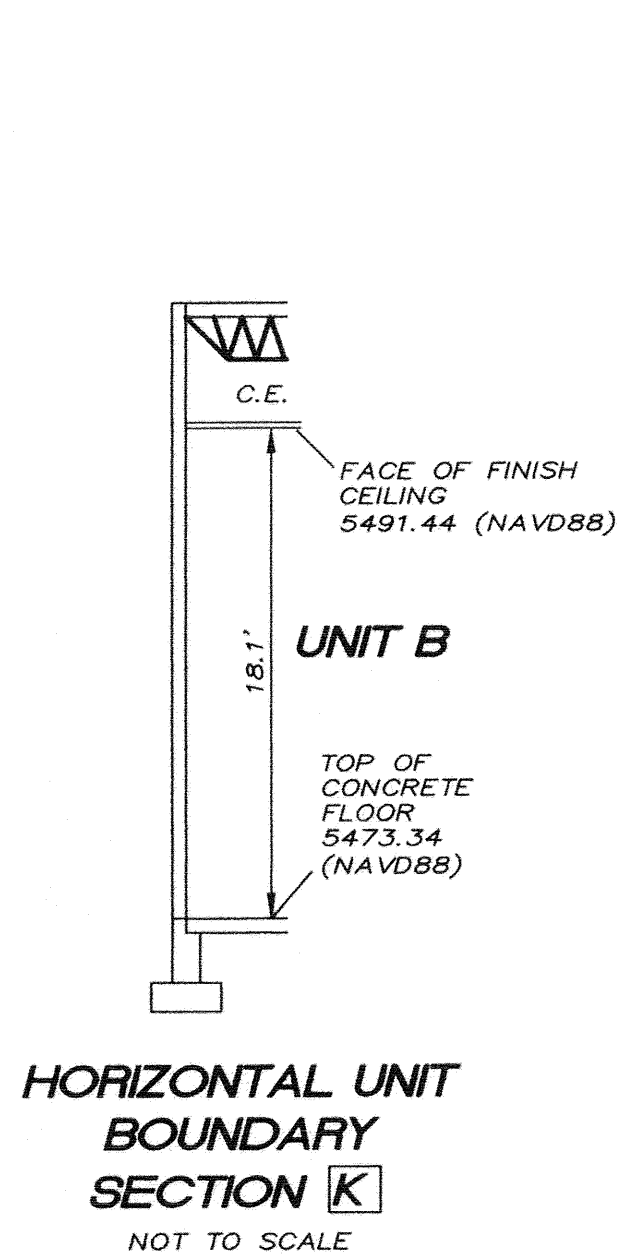


SHEET 7 OF 12

SURVOTEK, INC.

Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377

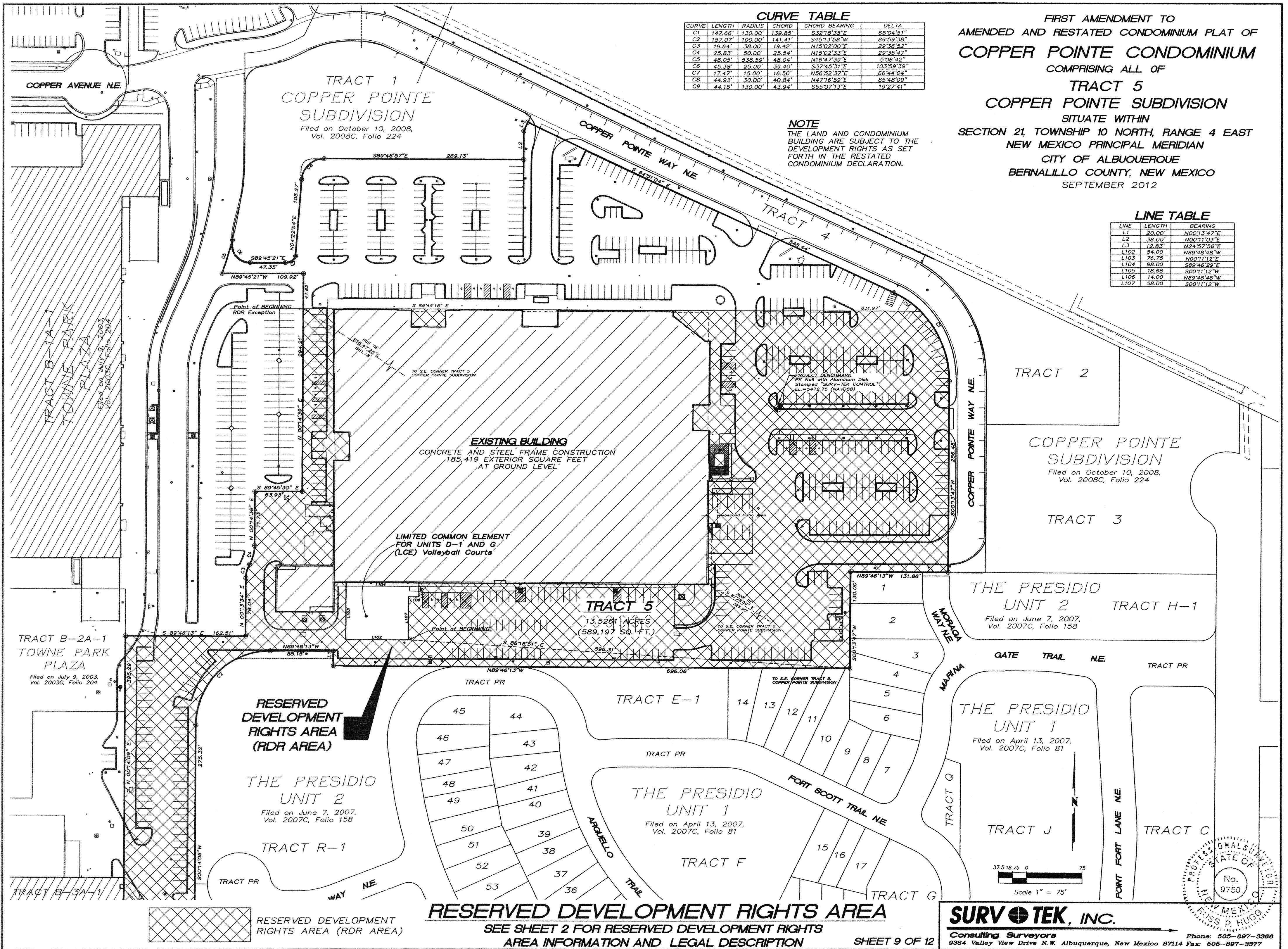
FIRST AMENDMENT TO
 AMENDED AND RESTATED CONDOMINIUM PLAT OF
COPPER POINTE CONDOMINIUM
 COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
 SITUATE WITHIN
 SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
 NEW MEXICO PRINCIPAL MERIDIAN
 CITY OF ALBUQUERQUE
 BERNALILLO COUNTY, NEW MEXICO
 SEPTEMBER 2012



SHEET 8 OF 12

SURVOTEK, INC.

Consulting Surveyors
 9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377
 Phone: 505-897-3366



| CURVE TABLE | | | | | |
|-------------|---------|---------|---------|---------------|------------|
| CURVE | LENGTH | RADIUS | CHORD | CHORD BEARING | DELTA |
| C1 | 147.66' | 130.00' | 139.85' | S32°18'38"E | 65°04'51" |
| C2 | 157.07' | 100.00' | 141.41' | S45°13'58"W | 89°59'38" |
| C3 | 19.64' | 38.00' | 19.42' | N15°02'00"E | 29°36'52" |
| C4 | 25.83' | 50.00' | 25.54' | N15°02'33"E | 29°39'47" |
| C5 | 48.05' | 538.59' | 48.04' | N16°47'39"E | 5106'42" |
| C6 | 45.38' | 25.00' | 39.40' | S37°45'31"E | 103°59'39" |
| C7 | 17.47' | 15.00' | 16.50' | N56°52'37"E | 66°44'04" |
| C8 | 44.93' | 30.00' | 40.84' | N47°16'59"E | 85°48'09" |
| C9 | 44.15' | 130.00' | 43.94' | S55°07'13"E | 19°27'41" |

NOTE
THE LAND AND CONDOMINIUM BUILDING ARE SUBJECT TO THE DEVELOPMENT RIGHTS AS SET FORTH IN THE RESTATED CONDOMINIUM DECLARATION.

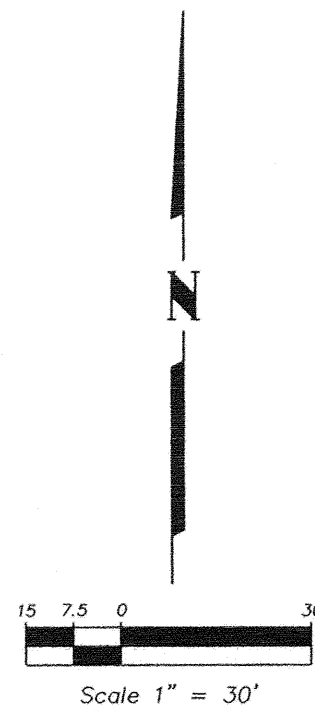
FIRST AMENDMENT TO
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SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

| LINE TABLE | | |
|------------|--------|-------------|
| LINE | LENGTH | BEARING |
| L1 | 20.00' | N00°13'47"E |
| L2 | 38.00' | N00°11'03"E |
| L3 | 12.83' | N24°57'56"E |
| L102 | 84.00' | N89°48'48"W |
| L103 | 76.75' | N00°11'12"E |
| L104 | 98.00' | S89°46'29"E |
| L105 | 18.68' | S00°11'12"W |
| L106 | 14.00' | N89°48'48"W |
| L107 | 58.00' | S00°11'12"W |

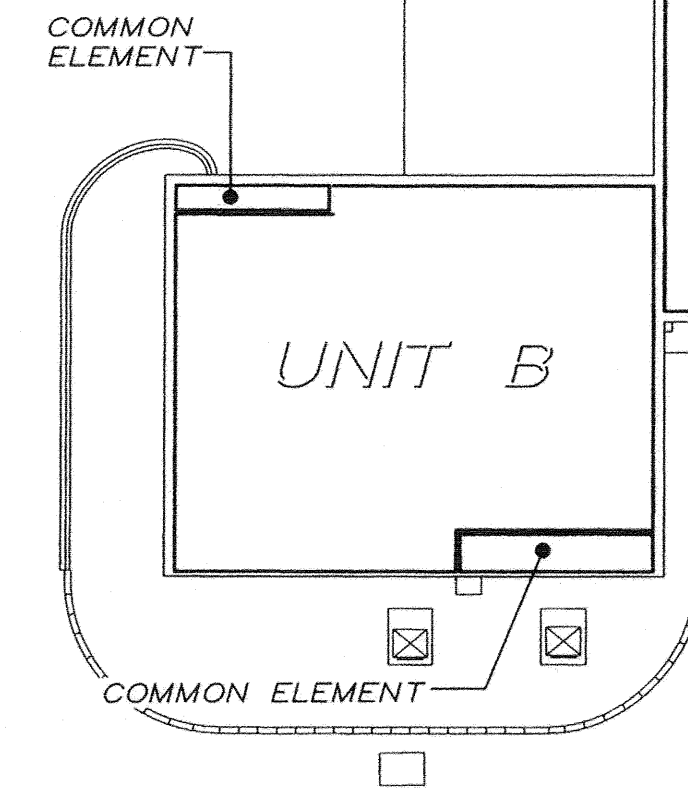
RESERVED DEVELOPMENT RIGHTS AREA
SEE SHEET 2 FOR RESERVED DEVELOPMENT RIGHTS
AREA INFORMATION AND LEGAL DESCRIPTION

SURV-TEK, INC.
Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377

Phone: 505-897-3366



| LINE | LENGTH | BEARING |
|------|--------|-------------|
| L1 | 4.0 | N00°16'11"E |
| L2 | 0.4 | S89°56'38"E |
| L3 | 5.6 | N00°01'05"E |
| L4 | 51.6 | S89°49'57"E |
| L5 | 10.2 | N89°58'19"E |
| L6 | 10.5 | S00°15'03"W |
| L7 | 9.3 | S89°44'57"E |
| L8 | 8.9 | S00°15'03"W |
| L9 | 15.6 | S89°36'43"E |
| L10 | 5.7 | N00°15'03"E |
| L11 | 15.8 | S89°44'57"E |
| L12 | 13.4 | N00°14'57"E |
| L13 | 6.3 | S00°11'45"W |
| L14 | 33.8 | S89°56'14"E |
| L15 | 9.5 | S89°51'38"E |
| L16 | 0.4 | N00°17'08"E |
| L17 | 33.7 | S89°51'38"E |
| L18 | 0.4 | S00°28'07"W |
| L19 | 6.0 | S89°51'38"E |
| L20 | 12.6 | N89°48'57"W |
| L21 | 18.8 | S45°10'03"W |
| L22 | 18.2 | S40°50'43"E |
| L23 | 57.7 | S00°10'03"W |
| L24 | 8.0 | N89°48'57"W |
| L25 | 15.7 | S45°10'03"W |
| L26 | 11.6 | S44°48'57"E |
| L27 | 23.5 | S00°10'03"W |
| L28 | 28.3 | N89°45'48"W |
| L29 | 19.5 | S00°14'12"W |
| L30 | 2.0 | S00°17'14"W |
| L31 | 48.9 | S89°49'57"E |
| L32 | 26.0 | S89°45'18"E |
| L33 | 6.9 | S00°14'42"W |
| L34 | 1.3 | S89°45'18"E |
| L35 | 12.0 | S52°24'50"E |
| L36 | 0.2 | N37°35'10"E |
| L37 | 28.1 | S52°24'50"E |
| L38 | 0.2 | S37°35'10"W |
| L39 | 12.0 | S52°24'50"E |
| L40 | 0.7 | S22°38'08"E |
| L41 | 6.1 | S89°47'29"E |
| L42 | 41.7 | S00°17'14"W |
| L43 | 16.6 | N40°46'17"W |



COMMON ELEMENT

LIMITED COMMON ELEMENT
(LCE FOR UNITS D-1 AND G)

UNIT C

UNIT E

UNIT D-1
First Floor

Unit D-1 Second Floor

Unit D-1 Second Floor

COMMON ELEMENT

COMMON ELEMENT

UNIT J
First Floor

Ceiling Elevation Break

UNIT A-1
First Floor

COMMON ELEMENT

COMMON ELEMENT

UNIT A-1
First Floor

RDR LOWER LEVEL AREA
Horizontal Unit Boundary 5498.46
(Cross Hatched Area)
30,011 Sq.Ft.

UNIT I
First Floor

COMMON ELEMENT
Second Story Patio Area
(Cross hatched area)

COMMON ELEMENT

COMMON ELEMENT

UNIT I
S87°28'50"E
325.50'

TO S.E. CORNER TRACT 5,
COPPER POINTE SUBDIVISION

Point of BEGINNING
Units A-1 and J

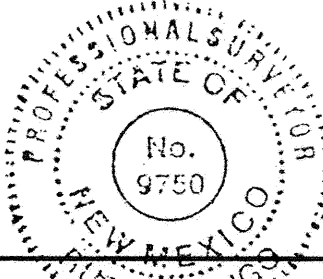
RESERVED DEVELOPMENT RIGHTS AREA
SEE SHEETS 2 AND 3 FOR RESERVED DEVELOPMENT
RIGHTS AREA INFORMATION AND LEGAL DESCRIPTION

FIRST AMENDMENT TO
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NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

SHEET 10 OF 12

SURV TEK, INC.

Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377



| | | |
|-----|-------|-------------|
| L32 | 26.0 | S89°45'18"E |
| L33 | 6.9 | S00°14'42"W |
| L34 | 1.3 | S89°45'18"E |
| L35 | 12.0 | S52°24'50"E |
| L36 | 0.2 | N37°35'10"E |
| L37 | 28.1 | S52°24'50"E |
| L38 | 0.2 | S37°35'10"W |
| L39 | 12.0 | S52°24'50"E |
| L40 | 0.7 | S22°38'08"E |
| L41 | 6.1 | S89°47'29"E |
| L42 | 41.7 | S00°17'14"W |
| L43 | 16.6 | N40°46'17"W |
| L44 | 100.8 | S89°45'48"E |
| L45 | 5.0 | N00°14'12"E |
| L46 | 65.5 | N89°45'48"W |
| L47 | 33.3 | N00°14'12"E |
| L48 | 15.5 | S89°45'48"E |
| L49 | 7.8 | N00°14'12"E |
| L50 | 35.1 | S89°45'48"E |
| L51 | 1.8 | N00°14'12"E |
| L52 | 42.2 | S89°45'48"E |
| L53 | 22.5 | S00°14'12"W |
| L54 | 5.7 | N89°45'48"W |
| L55 | 20.5 | S00°14'12"W |
| L56 | 5.7 | S89°45'48"E |
| L57 | 4.8 | S00°14'12"W |
| L58 | 24.1 | S89°45'48"E |
| L59 | 81.4 | S00°14'12"W |
| L60 | 52.3 | S89°45'48"E |
| L61 | 15.5 | S00°14'12"W |
| L62 | 7.5 | S89°45'48"E |
| L63 | 15.5 | N00°14'12"E |
| L64 | 93.6 | N89°45'48"W |
| L65 | 1.2 | S00°17'14"W |
| L66 | 0.7 | S89°42'46"E |
| L67 | 23.2 | S00°11'56"W |
| L68 | 2.1 | N89°48'04"W |
| L69 | 56.8 | S00°11'56"W |

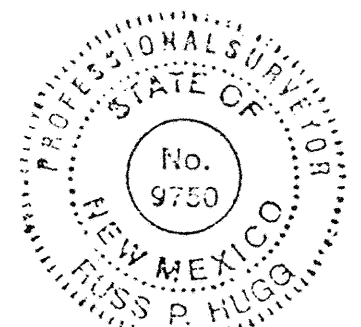
| | | |
|-----|------|-------------|
| L82 | 6.3 | S00°25'00"W |
| L83 | 47.9 | N89°56'38"W |
| L84 | 89.9 | S00°11'15"W |
| L85 | 6.2 | N89°56'16"W |
| L86 | 1.0 | N00°10'03"E |
| L87 | 5.3 | N89°49'58"W |
| L88 | 8.6 | N00°10'03"E |
| L89 | 4.7 | S89°49'56"E |
| L90 | 6.0 | N00°10'03"E |

A circular professional seal for a surveyor in the State of New Mexico. The outer ring contains the text "PROFESSIONAL SURVEYOR" at the top and "NEW MEXICO" at the bottom, separated by dots. Inside this ring is a smaller circle with "No. 9750" in the center. Below the "No. 9750" circle, the name "RUSS P. HUGG" is printed.

Consulting Surveyors Phone: 505-897-3366
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377

SHEET 11 OF 12

THE LAND AND CONDOMINIUM BUILDING ARE
SUBJECT TO THE DEVELOPMENT RIGHTS AS
SET FORTH IN THE RESTATED CONDOMINIUM
DECLARATION.



CURVE TABLE

| CURVE | LENGTH | RADIUS | CHORD | CHORD BEARING | DELTA |
|-------|---------|---------|---------|---------------|-----------|
| C1 | 147.66" | 130.00" | 139.85" | S32°18'38"E | 65°04'51" |
| C2 | 157.07" | 100.00" | 141.41" | S45°13'58"W | 89°59'38" |
| C3 | 19.64" | 38.00" | 19.42" | N15°02'00"E | 29°36'52" |
| C4 | 25.83" | 50.00" | 25.54" | N15°02'33"E | 29°35'47" |
| C5 | 48.05" | 53.58" | 48.04" | N16°47'39"E | 5°06'42" |
| C6 | 45.38" | 25.00" | 39.40" | S37°45'31"E | 5°05°39" |
| C7 | 12.47" | 15.00" | 16.50" | N56°52'37"E | 66°44'04" |
| C8 | 44.97" | 10.00" | 44.89" | N82°00'00"E | 90°00'00" |

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SHEET 12 OF 12

NEW MEXICO ENVIRONMENT DEPARTMENT
VOLUNTARY REMEDIATION AGREEMENT

EXHIBIT 2

Preliminary Voluntary Remediation Work Plan

Copper Pointe - Unit A-1 and Unit C
VRP Site No. 53201001

(VRP Work Plan provided electronically if document exceeds 10 pages)



EA Engineering, Science, and Technology, Inc., PBC
320 Gold Avenue SW, Suite 1300
Albuquerque, New Mexico 87102
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VOLUNTARY REMEDIATION PROGRAM WORK PLAN FOR UNIT A-1 AND UNIT 3 10500 COPPER AVENUE NE, ALBUQUERQUE, NEW MEXICO

Prepared for:

New Mexico Environment Department
Ground Water Quality Bureau
1190 St. Francis Drive / PO Box 5469
Santa Fe, NM 87502

and

MW Development, LLC
190 Central Park Sq. # 301.
Los Alamos, NM 87544

Prepared by:

EA Engineering, Science,
and Technology, Inc., PBC
320 Gold Avenue SW, Suite 1300
Albuquerque, New Mexico 87102

March 2020

VOLUNTARY REMEDIATION PROGRAM
WORK PLAN FOR UNIT A-1 AND UNIT 3
10500 COPPER AVENUE NE,
ALBUQUERQUE, NEW MEXICO

Prepared for:

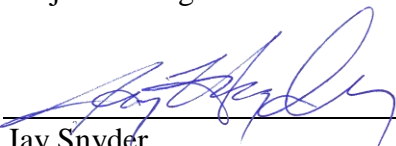
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Santa Fe, NM 87502

Prepared by:

EA Engineering, Science,
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320 Gold Avenue SW, Suite 1300
Albuquerque, New Mexico


Tyler Curley
Project Manager

March 30, 2020
Date


Jay Snyder
Senior Hydrogeologist

March 30, 2020
Date

March 2020

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APPENDICES

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| Appendix A | Phase I Environmental Site Assessment (Provided Electronically via CD) |
| Appendix B | Indoor Air Monitoring Report, Brown Mackie College |
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1.0 SITE BACKGROUND

On behalf of MW Development, LLC., EA Engineering Science and Technology, Inc., PBC (EA) is submitting this Voluntary Remediation Program (VRP) work plan for Unit A-1 and Unit C of Tract 5 of the Copper Pointe subdivision (the site) located at 10500 Copper Avenue, Albuquerque, New Mexico. The VRP work plan addresses the potential vapor intrusion (VI) as outlined in New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) Chief Michelle Hunter's March 11, 2020 letter to Pete Domenici, Jr., Esquire (NEMD 2020). The scope of work described in the work plan includes the following:

- Installation of a heating, ventilation, and cooling (HVAC) system designed to create a positive pressure differential between the indoor air space and the subfloor slab (sub-slab);
- Semi-annual monitoring of the indoor air space for contaminants of concern (COCs).

1.1 Site Location

The property is located in northeast Albuquerque, south of Interstate 40 and east of Eubank Boulevard within Section 21, Township 10, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico. The property is bordered by parking lots on all sides followed by Copper Avenue and Interstate 40 to the north and other commercial lots to the east and west. To the south, the site is bordered by the Presidio Townhomes and Condos residential neighborhood.

1.2 Site History

According to the Phase 1 Environmental Site Assessment performed by Nova Group for MW Development LLC., commercial development began at the property between 1970 and 1971 (Nova Group 2020). GTE Lenkurt Electronics utilized the facility for electrical circuit board manufacturing, etching, and component degreasing and cleaning until 1986; Siemens Stromberg-Carlson operated the facility between 1986 and 1993. The property was vacant from 1993 until 2006 while environmental investigations and remedial activities were performed. The property was purchased in 2006 and redeveloped for commercial office space in 2008. The property has been in use by commercial tenants since this time (Nova Group 2020). The Nova Group Phase I Environmental Site Assessment is provided in Appendix A.

1.3 Contaminants of Concern

The primary COC at the site is trichloroethene (TCE). Soil contamination was identified at the site in 1993, resulting from the use of chlorinated solvents in the cleaning and degreasing of electrical components. Soil vapor extraction (SVE) activities began in 1995 and were successful in reducing volatile organic compound (VOC) concentrations within the vadose zone until the SVE system was decommissioned in 1997 (Nova Group, 2020). It is believed that relatively high concentrations of TCE (relative to vapor intrusion screening levels [VISLs] established post site closure) remained in site soil after the SVE system was decommissioned.

Air samples collected in Unit A-1 and Unit C in January 2020 (EA 2020 [provided in Appendix B]) indicate that concentrations of TCE are present in indoor air, although below both the Environmental Protection Agency (EPA) Regional Screening Level (RSL) for industrial indoor air and the NMED VISL for industrial indoor air.

2.0 PROPOSED REMEDIAL ACTIVITIES

Mitigation of the potential VI issue will be accomplished through engineering controls. A positive pressure indoor air space will be created via installation of a properly designed heating, ventilation, and cooling (HVAC) system. The HVAC system will be designed to create a pressure gradient from the indoor air to the sub-slab, thereby eliminating the diffusion of TCE into the indoor air space (NMED 2020). The HVAC system will be designed by a certified HVAC engineer and shall be registered as a formal Engineering Control. Maintenance of the HVAC system will be conducted in accordance with the design engineer and will be documented and submitted to the VRP for approval.

3.0 VOLUNTARY REMEDIATION PERFORMANCE STANDARD

The VRP performance standards for this project are based on NMED VISLs for industrial indoor air. The performance standards for TCE and its degradation products are listed in the table below.

| Compound | Analytical Method | Performance Standard (NMED VISL) |
|--|-------------------|----------------------------------|
| Trichloroethene | EPA Method TO-15 | 9.83 $\mu\text{g}/\text{m}^3$ |
| 1,1-Dichloroethene | EPA Method TO-15 | 983 $\mu\text{g}/\text{m}^3$ |
| <i>cis</i> -1,2-Dichloroethene | EPA Method TO-15 | NE |
| <i>trans</i> -1,2-Dichloroethene | EPA Method TO-15 | 295 $\mu\text{g}/\text{m}^3$ |
| Vinyl Chloride | EPA Method TO-15 | 31.3 $\mu\text{g}/\text{m}^3$ |
| Notes: $\mu\text{g}/\text{m}^3$ = microgram per cubic meter. NE = not established. | | |

4.0 SAMPLING AND ANALYTICAL METHODS

Prior to any field activities, EA will update the site-specific Health and Safety Plan (HASP) in accordance with the requirements of 40 CFR 1910.120. The plan will be comprehensive to cover all activities proposed.

Indoor air monitoring will be performed in accordance with the Quality Assurance Project Plan (QAPP) provided in Section 5.0 below. Indoor air monitoring will be conducted utilizing passive indoor/ambient air samplers provided by Beacon Environmental Services, Inc. (Beacon). The passive absorbent samplers do not require pumps or electricity and can be used to collect a sample over a period of several hours to 30 plus days, providing a time-weighted, average concentration. The indoor air samplers will be installed and left in place for approximately 7 days prior to retrieval. Installation of the passive samplers will be performed in accordance with Beacon's sampling instruction (Appendix C) as follows:

- Remove the sorbent tube from the protective case and sample bag, label the sample bag with the sample location, deployment time and date;
- Remove the brass sample cap from the sorbent tube and install the diffusion cap on the open end of the tube until it will not slide any farther;
- Using heavy duty string or metal wire, suspend the sorbent tube within the breathing zone so the diffusion cap faces down. Record all information on the chain of custody;

- Retrieve the samples after the designated sampling time. Verify the correct sample bag and record the retrieval time and date;
- Remove the diffusion cap from the sorbent tube and replace the brass sample cap;
- Place the tube in the protective case and sample bag for return to Beacon;
- Complete the chain of custody, place all samples and other items in the shipment box and send the samples via express courier to Beacon.

Indoor air monitoring will be conducted at the site on a semi-annual basis within the winter and summer months. Two (2) samples will be collected during each sampling event, one within Unit C (former Brown Mackie College) and 1 within Unit A-1. Air samples will be analyzed for VOCs by EPA method TO-15 and the results for each compound will be reported in nanograms. The calculation of time-weighted average concentrations is performed using validated uptake rates and the following equation as discussed in Beacon's *Technical Memorandum on Chlorosorber – The Passive Sampler to Target Chlorinated Compounds in Air – Vinyl Chloride to Tetrachloroethene* (Beacon 2020), provided in Appendix C.

$$C = \frac{1,000 * M * DF}{U_c * t}$$

And

$$U_c = U \left[\frac{T_s + 273.15}{T_u + 273.15} \right]^{\frac{1}{2}}$$

Where: C = concentration ($\mu\text{g}/\text{m}^3$)

M = mass (nanograms)

DF = Dilution Factor

U_c = uptake rate (milliliters per minute), corrected

t = sampling time (minutes)

U = compound specific uptake rate

T_s = temperature – sampling period

T_u = temperature – uptake rate study

Utilizing the methods discussed above the following limits of quantitation (LOQs) and limits of detection (LODs) were determined by Beacon for a 7-day exposure period (Beacon 2020), and are provided in the table below.

| Compound | LOQ 7-day exposure time | LOD 7-day exposure time | NMED VISL | LOQ Below VISL? |
|--------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
| Trichloroethene | 0.08 $\mu\text{g}/\text{m}^3$ | 0.03 $\mu\text{g}/\text{m}^3$ | 9.83 $\mu\text{g}/\text{m}^3$ | Yes |
| 1,1-Dichloroethene | 0.11 $\mu\text{g}/\text{m}^3$ | 0.04 $\mu\text{g}/\text{m}^3$ | 983 $\mu\text{g}/\text{m}^3$ | Yes |
| cis-1,2-Dichloroethene | 0.07 $\mu\text{g}/\text{m}^3$ | 0.03 $\mu\text{g}/\text{m}^3$ | NE | Not Applicable |
| trans-1,2-Dichloroethene | 0.07 $\mu\text{g}/\text{m}^3$ | 0.03 $\mu\text{g}/\text{m}^3$ | 295 $\mu\text{g}/\text{m}^3$ | Yes |
| Vinyl Chloride | 0.09 $\mu\text{g}/\text{m}^3$ | 0.04 $\mu\text{g}/\text{m}^3$ | 31.3 $\mu\text{g}/\text{m}^3$ | Yes |

All analytical data will be reported at the limits specified above and will be compared against NMED VISLs for compliance with the VRP performance standard.

5.0 QUALITY ASSURANCE PROJECT PLAN

This section includes the QAPP for executing the sampling described in Section 5.0. This QAPP includes the required elements of the Guidance Quality Assurance Project Plans (QA/G-5) (EPA 2002) and Guidance on Systematic Planning using the Data Quality Objectives Process (QA/G-4) (EPA 2006b).

5.1 Data Quality Objectives

In summary, the overall data quality objectives (DQOs) for this project are to evaluate if site COCs remain below the NMED VISL for industrial indoor air once the remedy has been initiated.

5.2 Project Management

Project organization, roles and responsibilities, training, record keeping, and documentation are discussed in the subsections that follow.

5.2.1 Project Organization

- Jay Snyder, P.E. – Principal Investigator
- Teri McMillan, P.G. – Quality Assurance/Quality Control (QA/QC) Manager
- Tyler Curley, P.E. – Project Manager and Field Operations Manager
- Elliott Andelman – Field Geologist and Health and Safety Coordinator
- Nicole Peterson – Field Engineer

5.2.2 Responsibilities

Principal Investigator – Project direction, scoping, data interpretation, and corrective measures

QA/QC Manager – develop data quality objectives, project action levels, analytical methods, sampling methods, evaluate employee experience and certify they are qualified to work at the site, technical review of report(s), which will include QA/QC of technical data and verification of data usability.

Project Manager – Liaison between client and NMED, work plan preparation, assignment of personnel to appropriate positions, report(s) preparation, including initial evaluation of data usability and data quality, communication with laboratory, coordination of sampling.

Health and Safety Coordinator – Responsible for HASP review and approval.

Field Sampling Crew – Responsible for field sampling and measurement activities in accordance with the approved VRP Work Plan and for implementing proper sampling and sample handling procedures.

5.3 Training Requirements

This section outlines the training and certification required to complete the activities described in this SAP. The following sections describe the requirements for personnel working on site.

Health and Safety Training

Personnel who work on-site are required to meet the Occupational Safety and Health Administration (OSHA) training requirements defined in Title 29 of the Code of Federal Regulations (CFR) Part 1910.120(e). These requirements include: (1) 40 hours of formal off-site instruction; (2) a minimum of 3 days of actual on-site field experience under the supervision of a trained and experienced field supervisor; and (3) 8 hours of annual OSHA refresher training. Field personnel who directly supervise employees engaged in hazardous waste operations must also have at least 8 additional hours of specialized supervisor training. The supervisor training covers health and safety program requirements, training requirements, PPE requirements, spill containment program, and health-hazard monitoring procedures and techniques. Before work begins at a specific hazardous waste project site, personnel will be required to undergo site-specific training that thoroughly covers the following areas:

- Names of personnel and alternates responsible for health and safety at the site;
- Health and safety hazards present on site;
- Selection of the appropriate personal protection levels;
- Correct use of PPE;
- Work practices to minimize risks from hazards;
- Safe use of engineering controls and equipment on site; and
- Contents of the site-specific HASP.

5.4 Documentation and Records

Documentation is critical for evaluating the success of any environmental data collection activity. The following sections discuss the requirements for documenting field activities and for preparing laboratory data packages. This section also describes reports that will be generated as a result of this project.

Field Documentation

Field personnel will use permanently bound field logbooks with sequentially numbered pages to record and document field activities. The logbook will list the contract name and number, the project number, the site name, and the names of subcontractors, the client, and the project manager. At a minimum, the following information will be recorded in the field logbook:

- Names and affiliations of all on-site personnel or visitors;
- Weather conditions during the field activity;
- Summary of daily activities and significant events;
- Notes of conversations with coordinating officials;
- References to other field logbooks or forms that contain specific information;
- Discussions of problems encountered and their resolution;
- Discussions of deviations from the QAPP or other governing documents; and
- Descriptions of all photographs taken.

Reports Generated

Reporting of the VRP field activities and data results is addressed in Section 7.0.

5.5 Data Acquisition

This section describes the requirements for the following:

- Sampling Design
- Field Activities
- Sample Handling and Custody
- Analytical Methods
- Quality Control Sampling
- Equipment Testing, Inspection, and Maintenance
- Instrument Calibration Procedures
- Inspection and Acceptance Requirements for Supplies and Consumables
- Management of Work Plan Deviations

5.6 Sample Design

The sampling design is described in detail in Section 4.0.

5.7 Sampling Method Requirements

Sample method requirements for the project are specified in Section 4.0. A total of 2 samples will be collected during each semi-annual event, one sample each in Unit A-1 and Unit C.

5.8 Sample Handling and Custody Requirements

The following subsections describe sample handling procedures, including sample identification and labeling, documentation, chain of custody, and shipping.

5.8.1 Sample Identification

Each sample collected during site assessment activities will be identified using a unique sample identification (ID) number. The description of the sample type and the monitoring location will be recorded on the chain of custody forms, as well as in the field notes.

Sample IDs will be listed on the sample labels and the chain of custody forms submitted to the laboratory and will be cross-referenced to the point name in permanently bound field logbooks and on field data sheets.

One field duplicate for indoor air samples will be collected during the first sampling event. The duplicate sample will be given an ID similar to the one for the normal sample with a distinct extension. This way, the sample association will be blind to the laboratory. The association between normal and duplicate sample will be noted in the logbook and/or sampling forms.

5.8.2 Sample Labels

A sample label will be affixed to each sample container. The label will be completed with the following information written in indelible ink:

- Project name and location
- Sample identification number
- Date and time of sample collection
- Sample collector's initials

- Analysis required.

5.8.3 *Sample Documentation*

Documentation during sampling is essential to promote proper sample identification. Field personnel will adhere to the following general guidelines for maintaining field documentation:

- Documentation will be completed in permanent black or blue ink.
- All entries will be legible.
- Errors will be corrected by crossing out the entry with a single line and then dating and initialing the lineout.
- Any serialized documents will be maintained and referenced in the site logbook.
- Unused portions of pages will be crossed out, and each page will be signed and dated.

5.8.4 *Chain of Custody*

Field personnel will use standard sample custody procedures to maintain and document sample integrity during collection, transportation, storage, and analysis. A sample will be considered to be in custody if one of the following statements applies:

- It is in a person's physical possession or view.
- It is in a secure area with restricted access.
- It is placed in a container and secured with an official seal in such a way that the sample cannot be reached without breaking the seal.

Custody procedures provide an accurate written record that traces the possession of individual samples from the time of collection in the field to the time of acceptance at the laboratory. The chain of custody form will be used to document all samples collected and the analyses requested. Information that the field personnel will record on the form includes:

- Project name and number
- Sampling location
- Name and signature of sampler
- Destination of sample (laboratory name)
- Sample ID
- Date and time of collection
- Number and type of containers filled
- Analyses requested
- Preservatives used (if applicable)
- Filtering (if applicable)
- Signatures of individuals involved in custody transfer, including the date and time of transfer
- Project contact and phone number

Unused lines on the form will be crossed out and field personnel will sign chain of custody forms and the airbill number will be recorded. The form, along with the samples, will be placed in the shipping container provided by the laboratory which will be equipped with a custody seal. Signed airbills will serve as evidence of custody transfer between field personnel and the courier, and between the courier

and the laboratory. Copies of the form and the airbill will be retained and filed by field personnel before the containers are shipped.

The laboratory sample custodian will receive all incoming samples, sign the accompanying chain of custody forms, and will retain copies of the forms as permanent records. The laboratory sample custodian will record all pertinent information concerning the samples, including the persons delivering the samples, the date and time received, sample condition at the time of receipt (sealed, unsealed, or broken container; or other relevant remarks), the sample IDs, and any unique laboratory identification numbers for the samples. When the sample transfer process is complete, the custodian is responsible for maintaining internal logbooks, tracking reports, and other records necessary to maintain custody throughout sample preparation and analysis.

The laboratory will provide a secure storage area for all samples. Access to this area will be restricted to authorized personnel. The custodian will ensure that samples will be properly stored and maintained prior to analysis.

5.9 Analytical Methods

Analytical methods for the project are specified in Section 4.0.

5.10 Quality Control Sampling

The subsections below specify QA/QC protocols for field samples and laboratory samples.

Field Quality Control Samples

No field QC samples are specified for the site assessment activities planned herein.

Duplicate Samples

One duplicate sample will be collected during this investigation during the first sampling event (?) (a 10% frequency of collection).

5.11 Instrument/Equipment Testing, Inspection and Maintenance

All equipment used during the site assessment will be properly tested, inspected, maintained, and calibrated. Samples collected during this investigation will be analyzed only by laboratory equipment.

The laboratory's QA plan and written operating procedures describing specific testing, inspection, maintenance, and calibration procedures for equipment will be followed.

5.12 Instrument Calibration Procedures

Monitoring instruments will not be used on this project.

5.13 Inspection and Acceptance Requirements for Supplies and Consumables

The project manager has the primary responsibility for identifying the types and quantities of supplies and consumables needed to complete the project and is responsible for identifying acceptance criteria for these items.

Supplies and consumables can be received either at EA's office or at a work site. When supplies are received at an office, the project manager or field personnel will sort them according to vendor, check packing slips against purchase orders, and inspect the condition of all supplies before they are accepted for use on a project. If an item does not meet the acceptance criteria, deficiencies will be noted on the packing slip and purchase order and the item will then be returned to the vendor for replacement or repair.

Procedures for receiving supplies and consumables in the field are similar. When supplies are received, the project manager or field personnel will inspect all items against the acceptance criteria. Any deficiencies or problems will be noted in the field logbook, and deficient items will be returned for immediate replacement.

Analytical laboratories are required to provide certified clean containers for all analyses. These containers must meet EPA standards described in *Specifications and Guidance for Obtaining Contaminant-Free Sampling Containers* (EPA, 1992).

5.14 Management of VRP Work Plan Deviations

Minor deviations, including exact sample placement, will be addressed by field crew and the project manager and professional judgment will be utilized. Any deviation from the VRP Work Plan will be detailed in the field notebook and included in the Completion Report to NMED. Any deviation considered significant will be addressed by the field crew, project manager and NMED GWQB Project Managers.

A consensus on correcting the deviation will be achieved prior to executing any work plan changes, if at all possible. It is expected that the NMED GWQB Project Manager or other agency representative will be available for communication during fieldwork. If a situation arises that requires work plan deviation, every attempt will be made to reach an NMED GWQB representative. If attempts are unsuccessful and a deviation from the work plan must be made in a timely manner, the project manager will use professional judgment to adjust work plan specifications as needed.

5.15 Data Validation and Usability

This section describes the procedures that are planned to review and evaluate field and laboratory data. This section also discusses procedures for verifying that the data are sufficient to meet DQOs for the project.

5.15.1 Data Review, Validation and Verification Requirements

For this project, EA will perform data review on 100 percent of the laboratory results. No validation will be performed. Data will be reviewed for holding times, handling and preservation procedures, chain of custody, acceptance within control limits, and to ensure data meet method control limits for project goals.

5.15.2 Laboratory Data Evaluation and Usability

Laboratory personnel will verify analytical data at the time of analysis and reporting and through subsequent reviews of the raw data for any non-conformances to the requirements of the analytical method. Laboratory personnel will make a systematic effort to identify any outliers or errors before they report the data; however, this is unlikely due to the small data set created during each field event. Outliers that result from errors found during data verification will be identified and corrected; outliers that

cannot be attributed to errors in analysis, transcription, or calculation will be clearly identified in the case narrative section of the analytical data package.

All laboratory data will be reviewed to ensure usability. The data evaluation strategy will not be a full data validation process but will determine if the analytical results are within the QC limits set for the project. In this process, the data usability will be assessed. Specifically, sample handling requirements, holding times, duplicate results, and QC control limits will be reviewed.

5.15.3 Reconciliation with DQOs

After environmental data have been reviewed and evaluated in accordance with the procedures described above, the data must be further evaluated to assess whether DQOs have been met.

To the extent possible, EPA's data quality assessment (DQA) process will be followed to verify that the type, quality, and quantity of data collected are appropriate for their intended use. DQA methods and procedures are outlined in EPA's *Data Quality Assessment, A Reviewer's Guide* (EPA, 2006b). The DQA process includes five steps: (1) review the DQOs and sampling design; (2) conduct a preliminary data review; (3) select a statistical test; (4) verify the assumptions of the statistical test; and (5) draw conclusions from the data. In the case of this project, no statistical analysis is planned.

When the five-step DQA process is not completely followed because the DQOs are qualitative, data quality and data usability will be systematically assessed. This assessment will include:

- A review of the sampling design and sampling methods to verify that these were implemented as planned and are adequate to support project objectives,
- A review of project-specific data quality indicators and project reporting limits to evaluate whether acceptance criteria have been met,
- A review of project-specific DQOs to assess whether they have been achieved by the data collected, and
- An evaluation of any limitations associated with the decisions to be made based on the data collected.

The final report for the project will discuss any potential impacts of these reviews on data usability and will clearly define any limitations associated with the data.

5.16 Data Management

Field data will be recorded in the logbook and/or field forms and will be included in the appendices of the Site Investigation report. Analytical data will be received in electronic form and will be summarized, tabulated, analyzed, and provided in the body of the report. The original laboratory data will also be provided in the appendices. As appropriate, some data will be presented graphically. EA will oversee collection of environmental data using the appropriate assessment and audit activities. Any problems encountered during an assessment of field investigation or laboratory activities will require appropriate corrective action to ensure that the problems are resolved.

5.17 Data Evaluation

This section discusses procedures for verifying that the data are sufficient to meet DQOs for the project. Practical quantitation limits for COCs will be sufficiently low that a comparison to the VRP performance standards will be possible. COCs in the indoor air samples will be evaluated against the NMED VISL for industrial indoor air.

6.0 REPORTING

Upon initiation of the selected remedy, notification will be given to NMED VRP via an installation letter report. The report will include the following:

- HVAC installation details;
- HVAC system specification and details from the design engineer;
- Material specification sheets for all HVAC equipment installed;
- Operation and maintenance guidelines as specified by the HVAC engineer;
- and, photographic documentation log.

After each semi-annual monitoring event, EA will review the data from the analytical laboratory and will prepare a letter report describing the results within two weeks of receipt of laboratory data. Data will be compared to the VRP performance standards discussed in section 4.0.

7.0 SCHEDULE

| | |
|-----|--------------------------------------|
| | Public Notice Filed and Posted |
| | 30 Day Public Notice Period Complete |
| 0 | Draft Final VRP Work Plan Submitted |
| 45 | NMED Comments on Final VRP Work Plan |
| 60 | Final VRP Work Plan Cure |
| 90 | Commence Field Work |
| 100 | Completion Report Submitted |

8.0 REFERENCES

Beacon Environmental. 2020. Technical Memorandum – ChloroSorber – The Passive Sampler to Target Chlorinated Compounds in Air – Vinyl Chloride to Tetrachloroethene. February.

EA Engineering Science and Technology Inc., PBC (EA). 2020. Indoor Air Monitoring Report, Brown Mackie College, 10500 Copper Avenue NE, Albuquerque, NM. February.

U.S. Environmental Protection Agency (EPA). 1992. *Specifications and Guidance for Obtaining Contaminant-Free Sampling Containers*. OSWER Directive No. 9240.0-05A. April.

EPA. 2002. Guidance for Quality Assurance Project Plans. Office of Environmental Information. Washington, DC. EPA QA/G-5 EPA/240/R-02/009. December.

EPA. 2006a. Data Quality Assessment: A Reviewer's Guide. EPA QA/G-9R, EPA/240/B-06/002, February.

EPA 2006b. Guidance on Systematic Planning Using the Data Quality Objectives Process EPA QA/G-4, EPA/240/B-06/001. February.

New Mexico Environment Department (NMED). March 11, 2020 correspondence from Ms. Michelle Hunter, Chief to Mr. Pete Domenici, Jr. Esquire, *Re: Path Forward for Part of Unit A-1 and All of Unit C, Copper pointe, 10500 Copper Avenue, Albuquerque, New Mexico.*

Nova Group. 2020. Phase 1 Environmental Site Assessment. MW Development LLC/Copper Pointe Business Park 10500 Copper Avenue NE, Albuquerque, NM. February.

APPENDIX A

PHASE I ENVIRONMENTAL SITE ASSESSMENT

(Provided Electronically via CD)

APPENDIX B

**INDOOR AIR MONITORING REPORT,
BROWN MACKIE COLLEGE**



February 21, 2020

Mr. Bill Kruger
MW Development, LLC
190 Central Park Sq. # 301.
Los Alamos, NM 87544

**RE: INDOOR AIR MONITORING REPORT, BROWN MACKIE COLLEGE, 10500
COPPER AVENUE NE, ALBUQUERQUE, NM**

Dear Mr. Krueger:

EA Engineering, Science, and Technology, Inc., PBC (EA) has conducted an Indoor Air Quality Investigation at the above-referenced site. The investigation was completed as outlined in the *Proposal for Industrial Indoor Air Assessment, Brown Mackie College, 10500 Copper Avenue NE, Albuquerque, New Mexico December 17, 2019.*

Indoor Air Monitoring

EA performed indoor air monitoring on December 18, 2018. Composite air samples were collected over an 8-hour period from the locations shown on Figure 1. Samples were collected utilizing summa canisters and were submitted for analysis of VOC's by Environmental Protection Agency (EPA) Method TO-15 Selective Ion Monitoring (SIM) to Eurofins Air Toxics. A total of 19 indoor air samples and 2 duplication samples (1 within each unit) were collected. In addition, 1 upwind outdoor ambient air sample was collected. Photographic documentation of the sampling locations is provided in Attachment 1. Sampling details for each unit are provided below:

- Unit A-1
 - 1 sample was collected within the 3,000 square foot cleaning/storage area
 - 4 samples were collected within the 6,000 square foot open area
- Unit C (former Brown Mackie College)
 - 14 Samples were collected

6-L Summa® canisters with vacuum gauges and 8-hour flow controllers were used to collect the indoor air and outdoor air samples. The canisters were individually certified clean in accordance with EPA Method TO-15SIM and under a vacuum pressure of no less than -24 in. Hg. Each 6-L Summa® canister was paired with an associated vacuum gauge and flow controller by the laboratory during the certification process and used at only one location. The flow controllers, which feature a particulate filter and vacuum gauge, were set to 10.5 mL/minute by the analytical laboratory prior to shipping. Immediately prior to sample setup and collection, vacuum readings for each Summa® canister were verified with a handheld pressure gauge to assess for potential

leaks during transit from the laboratory to the field. Initial vacuum gauge readings were recorded on the field sampling forms prior to sample collection.

Following the 8-hour collection period, the Summa[®] canister valves were closed to terminate sample collection. If Summa[®] canister vacuum gauges reached -5 in. Hg or less before the 8-hour collection period had concluded, or if such a condition was reached in a canister associated with duplicate or split sample sets, the canister valves were closed to terminate sample collection. A total of 4 samples were terminated prior to the conclusion of the 8-hour collection period, with the shortest sample period being approximately 5.75 hours. As with many flow regulating devices that are continuously recalibrated and reused, there are inherent minor discrepancies between the actual flow rate achieved in a field setting and those achieved during the calibration process. Flow regulator ending gauge pressures and sample end times were recorded on the canister identification tags and the field sampling forms. Once sample collection was completed, the canister and flow controllers were disconnected, and a cap was tightened onto the Summa[®] canister. Pertinent sample information was recorded on the associated chain of custody and the canister was repackaged into the originating box.

The Summa[®] canisters were packed in the shipping containers provided by the lab, Eurofins Air Toxics, Inc. (Eurofins), and submitted to Eurofins under chain-of-custody for analysis of VOCs including TCE by Modified TO-15 SIM. Copies of field forms are provided in Attachment 2. Copies of the building surveys generated during the indoor air assessment are included in Attachment 3. Analytical laboratory report is provided in Attachment 4.

Indoor Air Monitoring Results

Results of the indoor air monitoring indicate the presence of TCE within Unit A-1 and Unit C. However, while the presence of TCE was detected, it was below the EPA Regional Screening Level (RSL) for Industrial Indoor Air. Laboratory analytical results were compared against both their respective New Mexico Environment Department (NMED) Vapor Intrusion Screening Level (VISL) and EPA RSL and are summarized in Table 1.

Contaminants detected above their respective NMED VISL and EPA RSL include benzene and ethylbenzene. Within Unit A-1, benzene was detected above the EPA RSL in all 5 samples and ethylbenzene was detected above the EPA RSL in 1 sample. Within Unit C, ethylbenzene was detected above the EPA RSL in all 14 samples. There were exceedances of benzene and ethylbenzene within Unit A-1; however, as shown in Photograph 2, Attachment 1, the storage of gasoline powered equipment in open air inside the warehouse is a likely source of these fuel-related contaminants. The exceedances of ethylbenzene within Unit C is likely related to construction activities and removal of carpet as ethylbenzene is commonly used in the production of carpet glue.

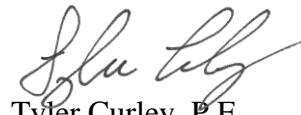
Contaminants observed within the outdoor air samples included the fuel-related contaminants benzene, ethylbenzene, toluene, and xylenes. These contaminants are likely a result from vehicle exhaust as the sample was placed near the parking lot and is down wind of Interstate 40. All contaminants observed were below respective standards. TCE was not detected within outdoor air sample.

Conclusions

The primary contaminant of concern, TCE, was not observed above the EPA RSL. While benzene and ethylbenzene were observed above their respective EPA RSL, the presence of these contaminants can likely be explained by the ongoing construction activities and the equipment placed in storage.

If you have any questions, please feel free to contact me a (505) 715-4422.

Sincerely,



Tyler Curley, P.E.
Project Manager

Tables: 1 – Summary of Compounds Detected in Air Samples

Figures 1 – Sampling Results

Attachments: 1 – Photographic Documentation
2 – Field Forms
3 – Building Surveys
4 – Laboratory Analytical Reports

References

EA Engineering, Science, and Technology, Inc. (EA). 2019. Proposal for Industrial Air Assessment, Brown Mackie College, 10500 Copper Avenue NE, Albuquerque, NM. December 2019.

TABLES

Table 1. Summary of Compounds Detected in Air Samples

| Sample Location ID | Date | Compound | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-----------|----------|---------|-----------|---------|------------|--------|----------------------------------|-------------|----------------|------------------------|----------|--------------------|-----------------------|----------------------|---------|-----------------|---------|-------------------|---------------|------------|----------|--------------|------|------|------|
| | | Freon 11 | Ethanol | Freon 113 | Acetone | 2-Propanol | Hexane | 2-Butanone (Methyl Ethyl Ketone) | Cyclohexane | 4-Ethyltoluene | 1,2,4-Trimethylbenzene | Freon 12 | 1,1-Dichloroethene | 1,1,1-Trichloroethane | Carbon Tetrachloride | Benzene | Trichloroethene | Toluene | Tetrachloroethene | Ethyl Benzene | m,p-Xylene | o-Xylene | Total Xylene | | | |
| Unit A | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IA-A-01 | 1/29/2020 | 1.5 | 560 | E | 3.8 | 110 | 680 | E | 4 | 6.6 | 1.8 | 1.9 | 2.0 | 2.4 | 0.12 | <0.22 | 0.47 | 2.1 | 1.5 | 10 | <0.28 | 8.9 | 20 | 6.8 | 26.8 | |
| IA-A-02 | 1/29/2020 | 1.5 | 660 | E | 4.1 | 59 | 260 | E | <3.5 | <3.0 | 0.89 | 1.4 | 1.4 | 2.5 | 0.12 | <0.22 | 0.46 | 1.7 | 1.4 | 7.7 | <0.27 | 3.7 | 11 | 3.9 | 14.9 | |
| IA-A-03 | 1/29/2020 | 1.3 | 640 | E | 3.2 | 110 | 260 | E | <3.6 | 6.7 | <0.71 | 1.5 | 1.4 | 2.4 | 0.13 | <0.22 | 0.46 | 1.6 | 1.4 | 7.3 | <0.28 | 3.8 | 11 | 3.7 | 14.7 | |
| IA-A-03-D | 1/29/2020 | 1.3 | 630 | E | 3.5 | 71 | 240 | E | <3.6 | <3.0 | 0.92 | 1.2 | 1.1 | 2.5 | 0.12 | <0.22 | 0.45 | 1.7 | 1.4 | 7.9 | 0.29 | 3.7 | 11 | 3.7 | 14.7 | |
| IA-A-04 | 1/29/2020 | 1.4 | 670 | E | 3.6 | 140 | 250 | E | <3.6 | 6 | 1 | 1.3 | 1.4 | 2.4 | 0.11 | <0.22 | 0.46 | 1.6 | 1.3 | 7 | <0.28 | 3.5 | 10 | 3.6 | 13.6 | |
| IA-A-05 | 1/29/2020 | 1.3 | 620 | E | 3.2 | 60 | 210 | E | <3.5 | <3.0 | 0.78 | 1.2 | 1.2 | 2.5 | 0.10 | <0.22 | 0.47 | 1.7 | 1.3 | 7.3 | <0.27 | 3.1 | 9.2 | 3.1 | 12.3 | |
| Unit C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IA-C-01 | 1/29/2020 | <4.0 | 1100 | E | <5.4 | 68 | 13 | | <12 | <10 | <2.4 | <3.5 | <3.5 | 2.4 | <0.28 | 1.2 | <0.28 | <1.1 | 0.88 | 4 | <0.96 | 59 | 310 | 110 | 420 | |
| IA-C-02 | 1/29/2020 | <2.8 | 760 | E | <3.8 | 84 | 11 | | <8.8 | 8.9 | <1.7 | <2.5 | <2.5 | 2.4 | <0.20 | 1.2 | <0.63 | 0.85 | 0.86 | 3.8 | <0.68 | 59 | 320 | 110 | 430 | |
| IA-C-03 | 1/29/2020 | <3.0 | 1100 | E | <4.2 | 77 | 15 | | <9.6 | 9.8 | <1.9 | <2.7 | <2.7 | 2.3 | <0.21 | 0.95 | <0.68 | 1.0 | 0.90 | 3.9 | <0.74 | 58 | 310 | 100 | 410 | |
| IA-C-04 | 1/29/2020 | <3.7 | 1600 | E | <5.0 | 64 | 12 | | <12 | <9.6 | <2.2 | <3.2 | <3.2 | 2.3 | <0.26 | 0.85 | <0.82 | <1.0 | 0.83 | 4.1 | <0.88 | 60 | 330 | 110 | 440 | |
| IA-C-05 | 1/29/2020 | <2.8 | 730 | E | <3.9 | 86 | 11 | | <8.9 | 11 | <1.7 | <2.5 | <2.5 | 2.3 | <0.20 | 1.2 | <0.64 | 0.89 | 0.96 | 3.8 | <0.68 | 53 | 280 | 94 | 374 | |
| IA-C-06 | 1/29/2020 | <2.8 | 800 | E | <3.9 | 48 | 8.8 | | <8.9 | <7.4 | <1.7 | <2.5 | <2.5 | 2.4 | <0.20 | 1.3 | <0.64 | 0.91 | 1.5 | 3.8 | <0.68 | 55 | 300 | 98 | 398 | |
| IA-C-07 | 1/29/2020 | <2.6 | 690 | E | <3.5 | 42 | 8.2 | | <8.1 | <6.8 | <1.6 | <2.3 | <2.3 | 2.4 | <0.18 | 1.3 | <0.58 | 0.84 | 0.96 | 3.8 | <0.63 | 58 | 320 | 100 | 420 | |
| IA-C-08 | 1/29/2020 | <2.8 | 950 | E | <3.8 | 78 | 12 | | <8.8 | 9.8 | <1.7 | <2.4 | <2.4 | 2.4 | <0.20 | 1.4 | <0.63 | 0.96 | 1.0 | 3.9 | <0.68 | 56 | 300 | 100 | 400 | |
| IA-C-08-D | 1/29/2020 | <2.9 | 970 | E | <4.0 | 98 | 12 | | <9.2 | <7.7 | <1.8 | <2.6 | <2.6 | 2.3 | <0.21 | 1.2 | <0.66 | 1.0 | 0.91 | 3.5 | <0.71 | 45 | 210 | 73 | 283 | |
| IA-C-09 | 1/29/2020 | <3.7 | 1300 | E | <5.0 | 44 | 8.8 | | <12 | <9.6 | <2.2 | <3.2 | <3.2 | 2.5 | <0.26 | 1.4 | <0.82 | <1.0 | 1.0 | 3.9 | <0.88 | 54 | 290 | 98 | 388 | |
| IA-C-10 | 1/29/2020 | <3.7 | 1800 | E | <5.0 | 83 | 12 | | <12 | <9.7 | <2.3 | <3.2 | <3.2 | 2.4 | <0.26 | 0.94 | <0.83 | <1.0 | 1.0 | 4.1 | <0.89 | 56 | 300 | 100 | 400 | |
| IA-C-11 | 1/29/2020 | <3.7 | 1900 | E | <5.1 | 42 | 10 | | <12 | <9.8 | <2.3 | <3.2 | <3.2 | 2.4 | <0.26 | 0.87 | <0.83 | <1.0 | 0.95 | 4.2 | <0.90 | 53 | 290 | 99 | 389 | |
| IA-C-12 | 1/29/2020 | <3.0 | 1900 | E | <4.1 | 52 | 14 | | <9.3 | <7.8 | <1.8 | <2.6 | <2.6 | 2.3 | <0.21 | 0.71 | <0.67 | 1.1 | 1.1 | 3.7 | <0.72 | 43 | 210 | 72 | 282 | |
| IA-C-13 | 1/29/2020 | <3.7 | 1800 | E | <5.0 | 37 | <8.1 | | <12 | <9.7 | <2.3 | <3.2 | <3.2 | 2.4 | <0.26 | 0.70 | J | <0.83 | 1.2 | 1.2 | 4.3 | <0.90 | 44 | 290 | 72 | 362 |
| IA-C-14 | 1/29/2020 | <3.8 | 2900 | E | <5.2 | 60 | 14 | | <12 | <10 | <2.4 | <3.4 | <3.4 | 2.3 | <0.27 | <0.74 | <0.86 | 1.2 | 0.94 | 4.2 | <0.93 | 39 | 190 | 67 | 257 | |
| Outdoor Air | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OA-01 | 1/29/2020 | 1.2 | 3.9 | | <1.5 | 9.3 | <2.5 | | <3.5 | <3.0 | <0.69 | <0.99 | <0.99 | 2.3 | <0.080 | <0.22 | | 0.38 | 0.66 | <0.22 | 1.2 | <0.27 | 0.23 | 0.61 | 0.25 | 0.86 |
| EPA RSL | | NA | NA | | NA | 14,000 | NA | | 3100 | 22,000 | 26,000 | NA | 260 | NA | 280 | 22,000 | | 2.0 | 1.6 | 3.0 | 22,000 | 47 | 4.9 | 440 | 440 | 440 |
| NMED VISLs | | NA | NA | | NA | 15,000 | NA | | NA | 24,600 | NA | NA | NA | NA | 983 | 24,600 | | 22.9 | 17.6 | 9.83 | 24,600 | 197 | 55.1 | 492 | 492 | 492 |

Notes:

All units in micrograms per cubic meter.

EPA RSL = Environmental Protection Agency Regional Screening Level-November 2019

NA = Not Applicable

NMED VISLs = New Mexico Environmental Department Vapor Intrusion Screening Levels-March 2017.

Bold Red values indicate results that exceed the EPA RSL for Industrial Air

<" indicates the compound was not detected above the laboratory reporting limit.

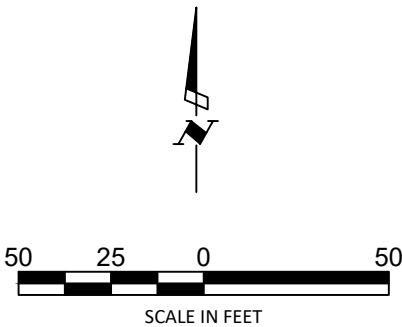
FIGURES

CAD FILE: Y:\Active Projects\Copper Point\Reports\As Built and Confirmation Sampling_201\Figure1\Figure_1_SAMPLE_LOCATIONS.dwg
PLOT DATE/TIME: 2/19/2020 - 1:10pm



LEGEND

 INDOOR AIR SAMPLE LOCATION



COPPER POINTE BUSSINESS PARK
10500 COPPER AVENUE ALBUQUERQUE, NM

FIGURE 1.
SAMPLE LOCATIONS

PROJECT #: 010101 PROJECT PHASE: 01 PROJECT MANAGER: JS



EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.

320 Gold Avenue, SW Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013
Fax: (505) 224-9016

ATTACHMENT 1 – PHOTOGRAPHIC DOCUMENTATION

Photographic Documentation
10500 Copper Avenue, Albuquerque, New Mexico



Photograph No. 1
Description: Unit A-1 storage area.

Site: 10500 Copper Ave



Photograph No. 2
Description: Unit A-1 storage area, gas powered equipment.

Site: 10500 Copper Ave

Photographic Documentation
10500 Copper Avenue, Albuquerque, New Mexico



Photograph No. 3
Description: Unit A-1 storage area, gas powered equipment.

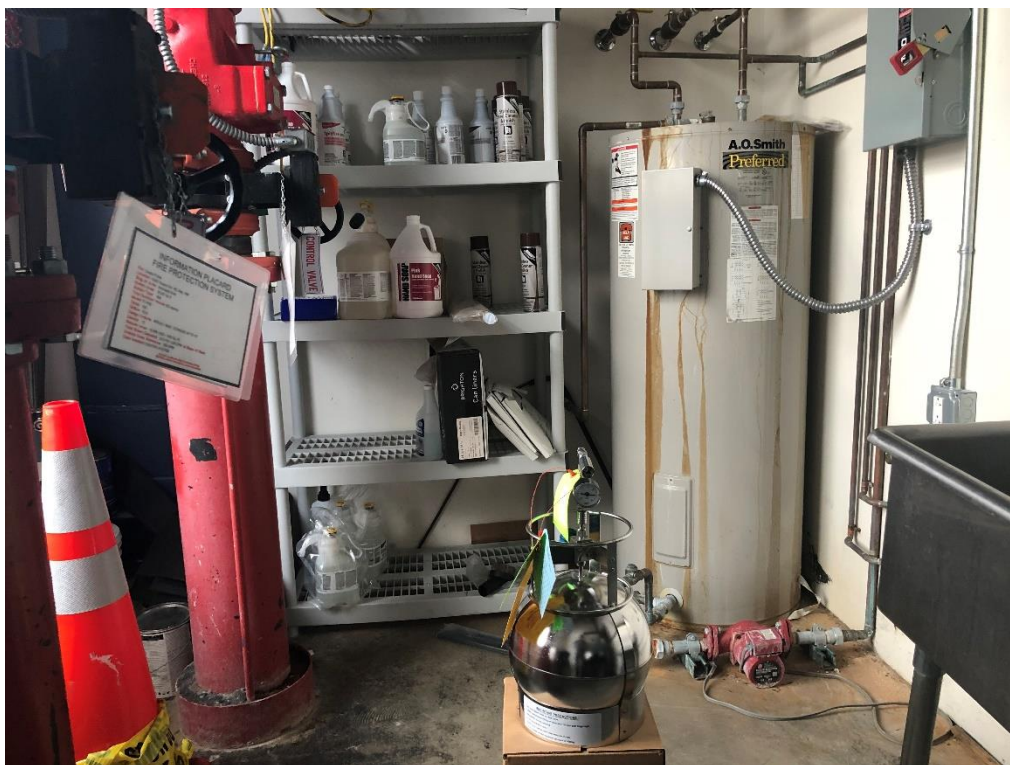
Site: 10500 Copper Ave



Photograph No. 4
Description: Unit A-1 storage area, chemical storage.

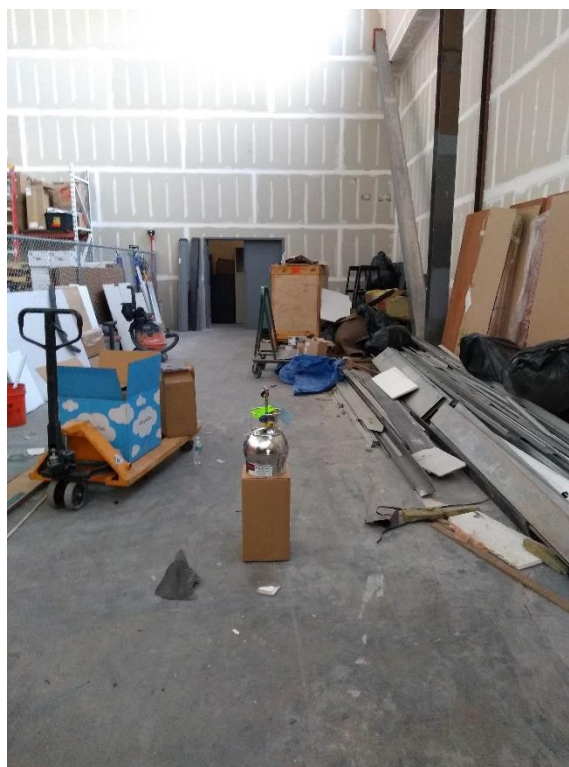
Site: 10500 Copper Ave

Photographic Documentation
10500 Copper Avenue, Albuquerque, New Mexico



Photograph No. 5
Description: Unit C chemical storage near IA-C-06.

Site: 10500 Copper Ave



Photograph No. 6
Description: Sample canister for IA-A-01.

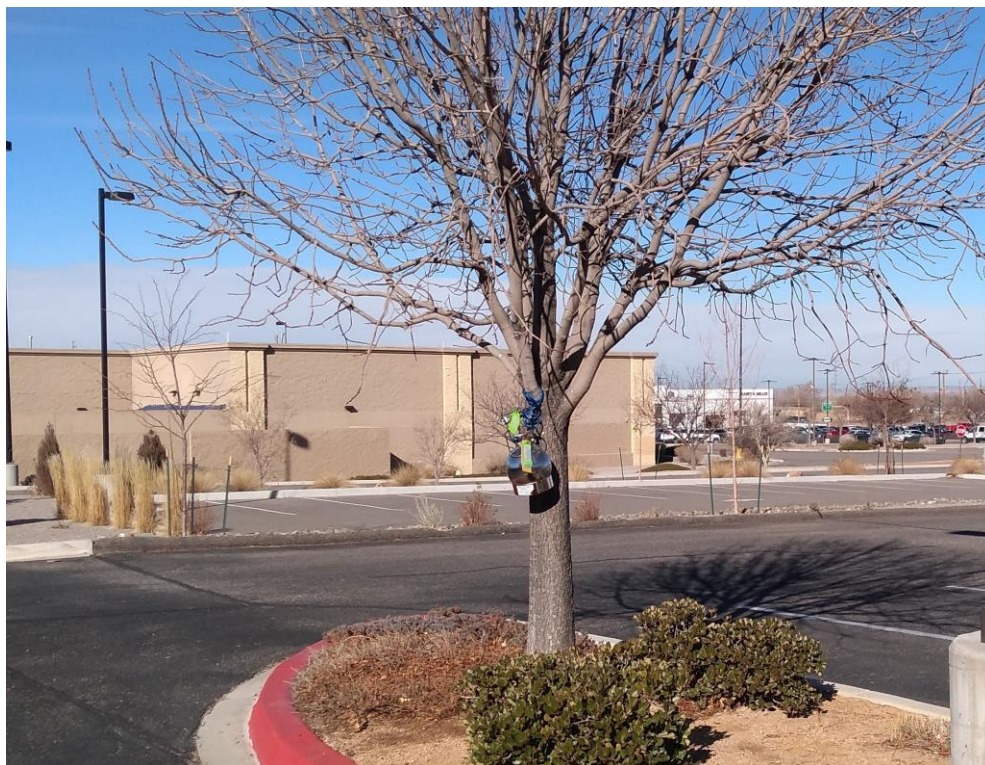
Site: 10500 Copper Ave

Photographic Documentation
10500 Copper Avenue, Albuquerque, New Mexico



Photograph No. 7
Description: Sample canister for IA-C-05.

Site: 10500 Copper Ave



Photograph No. 8
Description: Sample canister for OA-01.

Site: 10500 Copper Ave

ATTACHMENT 2 – FIELD FORMS



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|------------------------------|--------------------------------|---|
| Samplers: EJA / NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|------------------------------|--------------------------------|---|

Location ID (Address): IA-A-01

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis: ☒ Indoor Air
☐ Sub-Slab
☐ Outdoor Air
☐ Crawl Space Air

TO15 TO15 LL TO15 SIMDuplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-A-01Summa Canister ID: 6L2629Initial Gauge Pressure: -24.5 Initial Reg. Pressure: -24.5Flow Control ID: 24544Flow Control Rate: 11.5Canister Start Time/Date: 1/29/2020 1035Canister End Time/Date: 1/29/2020 1835Final Canister Gauge Pressure: -6

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|-----------------------------------|---|
| Samplers: EJA/NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|-----------------------------------|---|

Location ID (Address): IA-A-02

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-A-02

Summa Canister ID: 6L0070

Initial Gauge Pressure: -21.5 Initial Reg. Pressure: -21.5

Flow Control ID: 23747

Flow Control Rate: 11.5

Canister Start Time/Date: 1/29/2020 1045

Canister End Time/Date: 1/29/2020 1845

Final Canister Gauge Pressure: -4

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|-----------------------------------|---|
| Samplers: EJA/NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|-----------------------------------|---|

Location ID (Address): IA-A-φ3

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☒ Yes ☐ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-A-φ3

Summa Canister ID: 6L252φ

Initial Gauge Pressure: -23.5 Initial Reg. Pressure: -23.5

Flow Control ID: 23511

Flow Control Rate: 11.5

Canister Start Time/Date: 1/29/2020 1053

Canister End Time/Date: 1/29/2020 1853

Final Canister Gauge Pressure: -6

Duplicate

Summa Sample ID: IA-A-φ3D

Summa Canister ID: 6L298

Initial Gauge Pressure: -22.5 Initial Reg. Pressure: -22.5

Flow Control ID: 232φ4

Flow Control Rate: 11.5

Canister Start Time/Date: 1/29/2020 1053

Canister End Time/Date: 1/29/2020 1853

Final Canister Gauge Pressure: -3

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|------------------------------|--------------------------------|---|
| Samplers: EJA / NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|------------------------------|--------------------------------|---|

Location ID (Address): IA-A-04

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ V O C Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-A-04

Summa Canister ID: 6L2505

Initial Gauge Pressure: -24.5 Initial Reg. Pressure: -24.5

Flow Control ID: 24360

Flow Control Rate: 11.5

Canister Start Time/Date: 1/29/2020 1056

Canister End Time/Date: 1/29/2020 1856

Final Canister Gauge Pressure: -5.5

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|------------------------------|-----------------------------------|---|
| Samplers: EJA / NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|------------------------------|-----------------------------------|---|

Location ID (Address): IA-A-05

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis: ☒ Indoor Air
☐ Sub-Slab
☐ Outdoor Air
☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-A-05

Summa Canister ID: 6L1511

Initial Gauge Pressure: -25 Initial Reg. Pressure: -25

Flow Control ID: 23407

Flow Control Rate: 11.5

Canister Start Time/Date: 1/29/2020 1101

Canister End Time/Date: 1/29/2020 1819

Final Canister Gauge Pressure: -5

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|-----------------------------------|---|
| Samplers: EJA/NP | Site ID COPPER POINT | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|-----------------------------------|---|

Location ID (Address): IA-C-01

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Duplicate

Summa Sample ID: IA-C-01

Summa Canister ID: 612510

Initial Gauge Pressure: -25 Initial Reg. Pressure: -25

Flow Control ID: 23799

Flow Control Rate: 11.5

Canister Start Time/Date: 1-29-2020 0815

Canister End Time/Date: 1-29-2020 1415 1615

Final Canister Gauge Pressure: -6

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|-----------------------------------|---|
| Samplers: EJA/NP | Site ID Copper POINT | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|-----------------------------------|---|

Location ID (Address): IA-C-02

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

- ☒ Indoor Air
☐ Sub-Slab
☐ Outdoor Air
☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Duplicate

Summa Sample ID: IA-C-02

Summa Canister ID: 612565

Initial Gauge Pressure: -25 Initial Reg. Pressure: -25

Flow Control ID: 23393

Flow Control Rate: 11.5

Canister Start Time/Date: 1-29-2020 / 0825

Canister End Time/Date: 1-29-2020 / 1533

Final Canister Gauge Pressure: -5

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|------------------------------------|---|
| Samplers: EJA/NP | Site ID COPPER POINTE | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|------------------------------------|---|

Location ID (Address): IA-C-03

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

- ☒ Indoor Air
☐ Sub-Slab
☐ Outdoor Air
☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Duplicate

Summa Sample ID: IA-C-03

Summa Canister ID: 6L2509

Initial Gauge Pressure: -24.5 Initial Reg. Pressure: -24.5

Flow Control ID: 23460

Flow Control Rate: 11.5

Canister Start Time/Date: 1/29/2020 0837

Canister End Time/Date: 1/29/2020 1637

Final Canister Gauge Pressure: -7.5

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|-----------------------------------|---|
| Samplers: ETA/NP | Site ID COPPER POINT | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|-----------------------------------|---|

Location ID (Address): IA-C-04

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ V O C Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-C-04

Summa Canister ID: 26 6L2634

Initial Gauge Pressure: -24.5 Initial Reg. Pressure: -24.5

Flow Control ID: 23566

Flow Control Rate: 11.5

Canister Start Time/Date: 1-29-2020 0843

Canister End Time/Date: 1-29-2020 1546

Final Canister Gauge Pressure: -4.5

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:

ROOM HAS SLIGHT FRESH PAINT ODOR.



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|-----------------------------------|---|
| Samplers: EJA/NP | Site ID COPPER POINT | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|-----------------------------------|---|

Location ID (Address): IA-C-05

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ V O C Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-C-05

Summa Canister ID: 612552

Initial Gauge Pressure: -24.5 Initial Reg. Pressure: -24.5

Flow Control ID: 24203

Flow Control Rate: 11.5

Canister Start Time/Date: 1-29-2020 0850

Canister End Time/Date: 1-29-2020 1650

Final Canister Gauge Pressure: -6.0

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|------------------------------|-----------------------------------|---|
| Samplers: EJA / NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|------------------------------|-----------------------------------|---|

Location ID (Address): IA-C-06

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ V O C Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space AirTO15 TO15 LL TO15 SIMDuplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-C-06Summa Canister ID: 6L1294Initial Gauge Pressure: -25.0 Initial Reg. Pressure: -25.0Flow Control ID: 24392Flow Control Rate: 11.5Canister Start Time/Date: 1/29/2020 0856Canister End Time/Date: 1/29/2020 1656Final Canister Gauge Pressure: -5

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|------------------------------|--------------------------------|---|
| Samplers: EJA / NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|------------------------------|--------------------------------|---|

Location ID (Address): IA-C-07

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ V O C Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-C-07

Summa Canister ID: 6L1730

Initial Gauge Pressure: 25.0 Initial Reg. Pressure: -25.0

Flow Control ID: 24306

Flow Control Rate: 11.5

Canister Start Time/Date: 1/29/2020 0900

Canister End Time/Date: 1/29/2020 1441

Final Canister Gauge Pressure: -3.5

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|------------------------------|--------------------------------|---|
| Samplers: EJA / NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|------------------------------|--------------------------------|---|

Location ID (Address): IA-C-08

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ V O C Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis: ☒ Indoor Air
☐ Sub-Slab
☐ Outdoor Air
☐ Crawl Space Air

TO15 TO15 LL TO15 SIMDuplicate: ☒ Yes ☐ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-C-08Summa Canister ID: 6L2578Initial Gauge Pressure: -24.0 Initial Reg. Pressure: -24.0Flow Control ID: 23219Flow Control Rate: 11.5Canister Start Time/Date: 1/29/2020 0907Canister End Time/Date: 1/29/2020 1707Final Canister Gauge Pressure: -5

Duplicate

Summa Sample ID: IA-C-08DSumma Canister ID: 6L2662Initial Gauge Pressure: -23 Initial Reg. Pressure: -23Flow Control ID: 24681Flow Control Rate: 11.5Canister Start Time/Date: 1/29/2020 0907Canister End Time/Date: 1/29/2020 1707Final Canister Gauge Pressure: -4.5

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|------------------------------|--------------------------------|---|
| Samplers: EJA / NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|------------------------------|--------------------------------|---|

Location ID (Address): IA-C-09

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-C-09

Summa Canister ID: 6L458

Initial Gauge Pressure: -24.0 Initial Reg. Pressure: -24.0

Flow Control ID: 23170

Flow Control Rate: 11.5

Canister Start Time/Date: 1/29/2020 0917

Canister End Time/Date: 1/29/2020 1658

Final Canister Gauge Pressure: -4

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|------------------------------------|---|
| Samplers: <u>EJA/NP</u> | Site ID <u>COPPER POINT</u> | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|------------------------------------|---|

Location ID (Address): IA-C-10

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space AirTO15 TO15 LL TO15 SIMDuplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Duplicate

Summa Sample ID: IA-C-10

Summa Sample ID: _____

Summa Canister ID: 622564

Summa Canister ID: _____

Initial Gauge Pressure: -24 Initial Reg. Pressure: -24

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: 24695

Flow Control ID: _____

Flow Control Rate: 11.5

Flow Control Rate: _____

Canister Start Time/Date: 1-29-2020 0922

Canister Start Time/Date: _____

Canister End Time/Date: 1-29-2020 ^{EJA} 1714-1722

Canister End Time/Date: _____

Final Canister Gauge Pressure: ~~0.6~~ -5

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|--------------------------------|---|
| Samplers: EJA/NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|--------------------------------|---|

Location ID (Address): IA-C-11

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis: ☒ Indoor Air
☐ Sub-Slab
☐ Outdoor Air
☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-C-11

Summa Canister ID: 6L1712

Initial Gauge Pressure: -25.0 Initial Reg. Pressure: -25.0

Flow Control ID: 23734

Flow Control Rate: 11.5

Canister Start Time/Date: 1/29/2020 0926

Canister End Time/Date: 1/29/2020 1726

Final Canister Gauge Pressure: -5.5

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|-----------------------------------|---|
| Samplers: ESA/NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|-----------------------------------|---|

Location ID (Address): IA-C-12

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

- ☒ Indoor Air
☐ Sub-Slab
☐ Outdoor Air
☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Duplicate

Summa Sample ID: IA-C-12

Summa Sample ID: _____

Summa Canister ID: 624149

Summa Canister ID: _____

Initial Gauge Pressure: -23 Initial Reg. Pressure: -23

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: 23512

Flow Control ID: _____

Flow Control Rate: 11.5

Flow Control Rate: _____

Canister Start Time/Date: 1-29-2020 0933

Canister Start Time/Date: _____

Canister End Time/Date: 1-29-2020 1733

Canister End Time/Date: _____

Final Canister Gauge Pressure: -4

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|-----------------------------------|---|
| Samplers: EJA/NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|-----------------------------------|---|

Location ID (Address): IA-C-13

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-C-13

Summa Canister ID: 622396

Initial Gauge Pressure: -26 Initial Reg. Pressure: -26

Flow Control ID: 24217

Flow Control Rate: 11.5

Canister Start Time/Date: 1-29-2020 0947

Canister End Time/Date: 1-29-2020 1714

Final Canister Gauge Pressure: -6

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|------------------------------|-----------------------------------|---|
| Samplers: EJA / NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|------------------------------|-----------------------------------|---|

Location ID (Address): IA-C-14

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ V O C Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☒ Indoor Air☐ Sub-Slab☐ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: IA-C-14

Summa Canister ID: 6L2636

Initial Gauge Pressure: -24.5 Initial Reg. Pressure: -24.5

Flow Control ID: 23654

Flow Control Rate: 11.5

Canister Start Time/Date: HNP 1/29/2020 0948

Canister End Time/Date: 1/29/2020 1748

Final Canister Gauge Pressure: -7

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:



FIELD SAMPLING FORM FOR VI ASSESSMENT

| | | |
|----------------------------|-----------------------------------|---|
| Samplers: EJA/NP | Site ID Copper Point | EA Project #: Client: Site: Description: Vapor Intrusion Assessment Sampling |
|----------------------------|-----------------------------------|---|

Location ID (Address): OA-01

Probe Installation Date/Time: _____

Slab Thickness: _____ Probe Length: _____

Helium Leak Check Date/Time: _____

He% Shroud _____ He% Tedlar Bag _____ VOC Purge _____

Shut in Check PSI drop in 1 minute: _____

Sample Type /Analysis:

☐ Indoor Air☐ Sub-Slab☒ Outdoor Air☐ Crawl Space Air

TO15 TO15 LL TO15 SIM

Duplicate: ☐ Yes ☒ No

Pressure recorded in Inches of Hg

Summa Sample ID: OA-01Summa Canister ID: 010223Initial Gauge Pressure: -24.5 Initial Reg. Pressure: -24.5Flow Control ID: 23480Flow Control Rate: 11.5Canister Start Time/Date: 1/29/2020 0958Canister End Time/Date: 1/29/2020 1758Final Canister Gauge Pressure: -6.5

Duplicate

Summa Sample ID: _____

Summa Canister ID: _____

Initial Gauge Pressure: _____ Initial Reg. Pressure: _____

Flow Control ID: _____

Flow Control Rate: _____

Canister Start Time/Date: _____

Canister End Time/Date: _____

Final Canister Gauge Pressure: _____

Comments/Observations:

Wind From NNW

ATTACHMENT 3 – BUILDING SURVEYS

BUILDING INVENTORY AND INDOOR AIR SAMPLING QUESTIONNAIRE

Unit A-1

This form should be prepared by a person familiar with indoor air assessments with assistance from a person knowledgeable about the building. Complete this form for each building where interior samples (e.g., indoor air, crawl space, or subslab soil gas samples) will be collected. Section I of this form should be used to assist in choosing an investigative strategy during workplan development. Section II should be used to assist in identification of complicating factors during a presampling building walk-through.

Preparer's Name Hugo Hinojosa Date/Time Prepared 1-29-2020 9:30am

Preparer's Affiliation Admin Manager Phone No. 505-699-5700

Purpose of Investigation Air Sampling

SECTION I: BUILDING INVENTORY

1. OCCUPANT OR BUILDING PERSONNEL:

Interviewed: Y / N

Last Name Hinojosa First Name Hugo

Address _____

City _____

Phone No. _____

Number of Occupants/people at this location _____ Age of Occupants _____

2. OWNER or LANDLORD: (Check if same as occupant ____.)

Interviewed: Y / N

Last Name MW Development LLC First Name _____

Address 190 Central Park Sq #301

City Los Alamos, NM 87544

Phone No. 505-661-4869

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response.)

Residential
Industrial

School
Church

Commercial/Multi-use
Other _____

NA

If the property is residential, what type? (Circle appropriate response.)

| | | |
|--------------|-----------------|-----------------|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouse/Condo |
| Modular | Log Home | Other _____ |

If multiple units, how many? _____

If the property is commercial, what type?

Business type(s) office

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 2 Building age 20+

Is the building insulated? Y / N How airtight? Tight / Average / Not Tight

Have occupants noticed chemical odors in the building? Y / N

If yes, please describe: _____

4. AIRFLOW Handwritten notes

Use air current tubes, tracer smoke, or knowledge about the building to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Airflow in building near suspected source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply.)

- a. Above-grade construction: wood frame log N/A concrete brick
 constructed on pilings with enclosed air space constructed on pilings with open air space
- b. Basement type: full crawlspace slab-on-grade other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: unsealed sealed sealed with _____
- e. Foundation walls: poured block stone other _____
- f. Foundation walls: unsealed sealed sealed with _____
- g. The basement is: wet damp dry
- h. The basement is: finished unfinished partially finished
- i. Sump present? Y / N
- j. Water in sump? Y / N / not applicable

Basement or lowest level depth below grade _____ (feet).

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, and drains).

6. HEATING, VENTING, and AIR CONDITIONING (Circle all that apply.)

Type of heating system(s) used in this building: (Circle all that apply – not just primary.)

Hot air circulation Heat pump Hot water baseboard
 Space heaters Stream radiation Radiant floor
 Electric baseboard Wood stove Outdoor wood boiler Other RTU

The primary type of fuel used is:

Natural gas Fuel oil Kerosene
Electric Propane Solar
 Wood Coal

Domestic hot water tank is fueled by: Natural gas

Boiler/furnace is located in: N/A Basement Outdoors Main floor Other _____

Do any of the heating appliances have cold-air intakes? Y (N)

Type of air conditioning or ventilation used in this building:

Central air Window units Open windows None
Commercial HVAC Heat-recovery system Passive air system

Are there air distribution ducts present?

☒ Y ☐ N

Describe the ventilation system in the building, its condition where visible, and the tightness of duct joints. Indicate the location of air supply and exhaust points on the floor plan.

HVAC plans attached.

Is there a radon mitigation system for the building/structure? Y ☒ N ☐ Date of Installation _____

Is the system active or passive?

Active/Passive

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost never

Level General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, or storage).

Basement _____

1st _____ Floor

_____ 2nd

Floor _____

3rd Floor _____

8. WATER AND SEWAGE

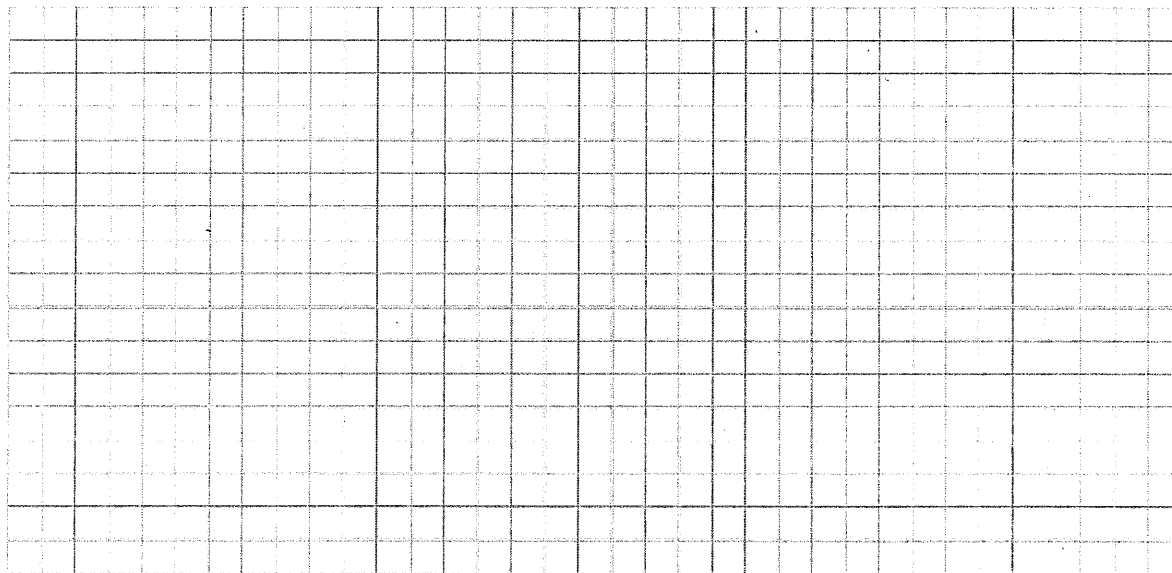
Water supply: ☒ Public water ☐ Drilled well ☐ Driven well ☐ Dug well ☐ Other _____

Sewage disposal: ☒ Public sewer ☐ Septic tank ☐ Leach field ☐ Dry well ☐ Other _____

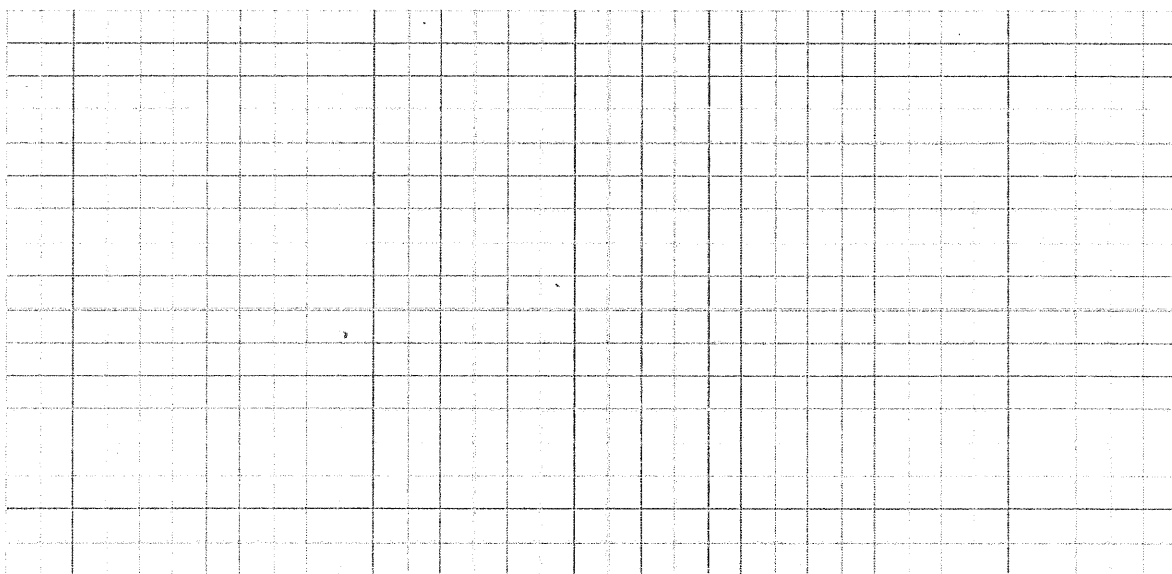
9. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note that.

Basement:



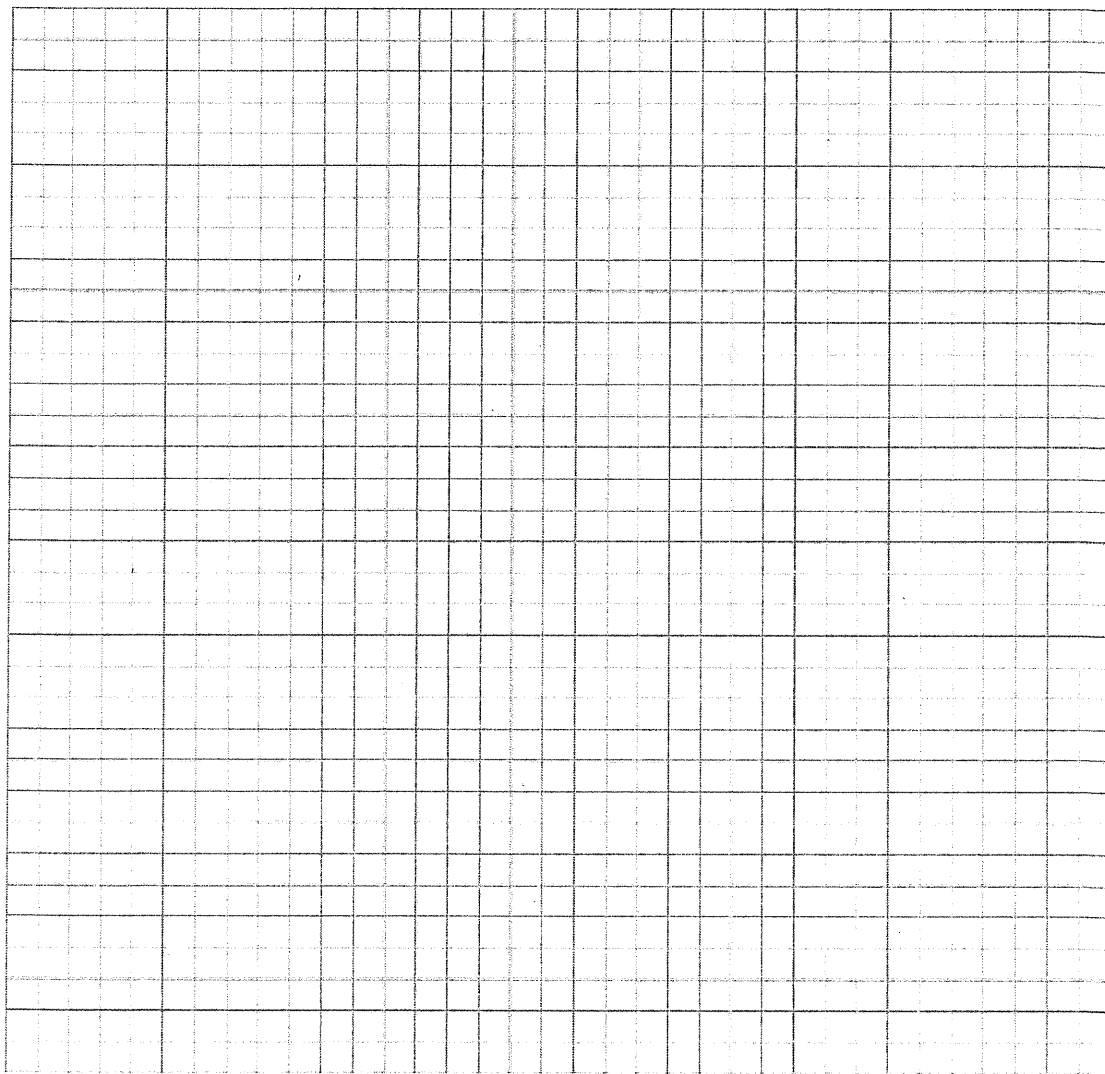
First Floor:



10. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (e.g., industries, gas stations, repair shops, landfills, etc.), outdoor air sampling locations and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the location of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



SECTION II: INDOOR AIR SAMPLING QUESTIONNAIRE

This section should be completed during a presampling walk-through. If indoor air sources of COCs are identified and removed, consider ventilating the building prior to sampling. However, ventilation and heating systems should be operating normally for 24 hours prior to sampling.

a) I. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

Is there an attached garage?

Y ☒ N

Does the garage have a separate heating unit?

Y / N ☒ NA

Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, ATV, or car)

Y / N ☒ NA

Please specify _____

Has the building ever had a fire? *to my knowledge* ☒ N

When? _____

Is a kerosene or unvented gas space heater present?

Y ☒ N

Where? _____

Is there a workshop or hobby/craft area?

Y ☒ N

Where and type _____

Is there smoking in the building?

Y ☒ N

How frequently? _____

Has painting/staining been done in the last six months?

Y ☒ N

Where and when? _____

Is there new carpet, drapes or other textiles?

Y ☒ N

Where and when? _____

Is there a kitchen exhaust fan?

Y ☒ N

If yes, where is it vented? _____

Is there a bathroom exhaust fan?

☒ Y / N

If yes, where is it vented? _____

Is there a clothes dryer?

Y ☒ N

If yes, is it vented outside? Y / N

Are cleaning products, cosmetic products, or pesticides used that could interfere with indoor air sampling? Y ☒ N

If yes, please describe _____

Do any of the building occupants use solvents at work?

☒ Y / N

Perator

(For example, is the building used for chemical manufacturing or a laboratory, auto mechanic or auto body shop, painting shop, fuel oil delivery area, or do any of the occupants work as a boiler mechanic, pesticide applicator, or cosmetologist?)

If yes, what types of solvents are used? _____

If yes, are his/her/their clothes washed at work?

Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry cleaning regularly (weekly)

☒ No

Yes, use dry cleaning infrequently (monthly or less)

Unknown

Yes, work at a dry cleaning services

2. **PRODUCT INVENTORY FORM** (For use during building walk-through.)

Make and model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality:

| Location | Product Description | Site (units) | Condition ¹ | Chemical Ingredients | Field Instrument Reading (units) | Photo ² <u>Y / N</u> |
|----------|---------------------|--------------|------------------------|----------------------|----------------------------------|------------------------------------|
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¹ Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**.

² Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

This form was modified from:

ITRC (Interstate Technology and Regulatory Council). 2007. *Vapor Intrusion Pathway: A Practical Guideline*. VI-1. Washington, D.C.: Interstate Technology and Regulatory Council, Vapor Intrusion Team. Available at: www.itcreweb.org.

BUILDING INVENTORY AND INDOOR AIR SAMPLING QUESTIONNAIRE

Unit C

This form should be prepared by a person familiar with indoor air assessments with assistance from a person knowledgeable about the building. Complete this form for each building where interior samples (e.g., indoor air, crawl space, or subslab soil gas samples) will be collected. Section I of this form should be used to assist in choosing an investigative strategy during workplan development. Section II should be used to assist in identification of complicating factors during a presampling building walk-through.

Preparer's Name Hugo Hinojosa Date/Time Prepared 1-29-2020 9:00am
Preparer's Affiliation Admin Manager Phone No. 505-699-5700
Purpose of Investigation Air Sampling

SECTION I: BUILDING INVENTORY

1. OCCUPANT OR BUILDING PERSONNEL:

Interviewed: ☒ Y ☐ N

Last Name Hinojosa First Name Hugo
Address _____
City _____
Phone No. _____
Number of Occupants/people at this location _____ Age of Occupants _____

2. OWNER or LANDLORD: (Check if same as occupant _____)

Interviewed: Y / N

Last Name MW Development LLC First Name _____
Address 190 Central Park Sq #301
City Los Alamos NM 87544
Phone No. 505-661-4869

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response.)

Residential
Industrial

School
Church

Commercial/Multi-use
Other _____

If the property is residential, what type? (Circle appropriate response.) **NA**

| | | |
|--------------|-----------------|-----------------|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouse/Condo |
| Modular | Log Home | Other _____ |

If multiple units, how many? _____

If the property is commercial, what type?

Business types(s) office

Does it include residences (i.e., multi-use)? Y ☒ N ☐ If yes, how many? _____

Other characteristics:

Number of floors 2 Building age 20+

Is the building insulated? ☒ Y ☐ N How airtight? ☒ Tight ☐ Average ☐ Not Tight

Have occupants noticed chemical odors in the building? Y ☒ N ☐

If yes, please describe: _____

4. AIRFLOW

Use air current tubes, tracer smoke, or knowledge about the building to evaluate airflow patterns and qualitatively describe:

Airflow between floors See HVAC plans

Airflow in building near suspected source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply.)

- a. Above-grade construction: wood frame log concrete brick
constructed on pilings with enclosed air space constructed on pilings with open air space
- b. Basement type: full crawlspace slab-on-grade other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: unsealed sealed sealed with _____
- e. Foundation walls: poured block stone other _____
- f. Foundation walls: unsealed sealed sealed with _____
- g. The basement is: wet damp dry
- h. The basement is: finished unfinished partially finished
- i. Sump present? Y / N
- j. Water in sump? Y / N / not applicable

Basement or lowest level depth below grade _____ (feet).

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, and drains).

6. HEATING, VENTING, and AIR CONDITIONING (Circle all that apply.)

Type of heating system(s) used in this building: (Circle all that apply – not just primary.)

- | | | | |
|---------------------|------------------|---------------------|------------------|
| Hot air circulation | Heat pump | Hot water baseboard | |
| Space heaters | Stream radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other <u>RTU</u> |

The primary type of fuel used is:

- | | | |
|--------------------|----------|----------|
| <u>Natural gas</u> | Fuel oil | Kerosene |
| <u>Electric</u> | Propane | Solar |
| Wood | Coal | |

Domestic hot water tank is fueled by: Natural gas

Boiler/furnace is located in: N/A Basement Outdoors Main floor Other _____

Do any of the heating appliances have cold-air intakes? Y / N

Type of air conditioning or ventilation used in this building:

- | | | | |
|------------------------|----------------------|--------------------|------|
| <u>Central air</u> | Window units | Open windows | None |
| <u>Commercial HVAC</u> | Heat-recovery system | Passive air system | |

Are there air distribution ducts present?

☒ Y ☐ N

Describe the ventilation system in the building, its condition where visible, and the tightness of duct joints. Indicate the location of air supply and exhaust points on the floor plan.

HVAC plans attached

Is there a radon mitigation system for the building/structure? Y ☒ N ☐ Date of Installation _____

Is the system active or passive? Active/Passive

7. OCCUPANCY

NA

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost never

Level General Use of Each Floor (e.g., family room, bedroom, laundry, workshop, or storage).

Basement _____

1st _____ Floor

_____ 2nd

Floor _____

3rd Floor _____

8. WATER AND SEWAGE

Water supply: ☒ Public water ☐ Drilled well ☐ Driven well ☐ Dug well ☐ Other _____

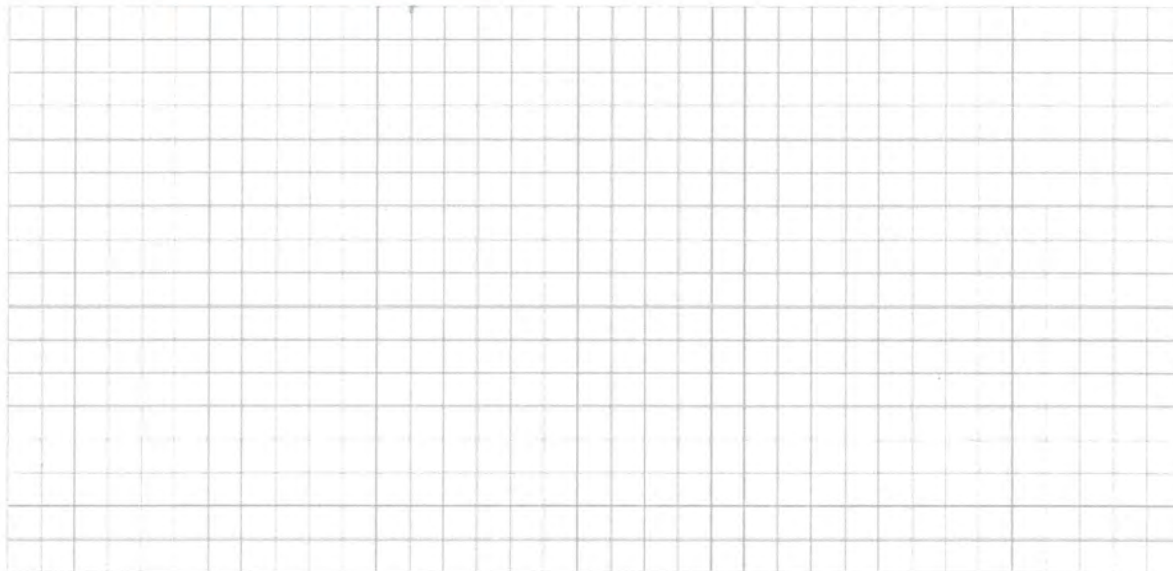
Sewage disposal: ☒ Public sewer ☐ Septic tank ☐ Leach field ☐ Dry well ☐ Other _____

9. FLOOR PLANS

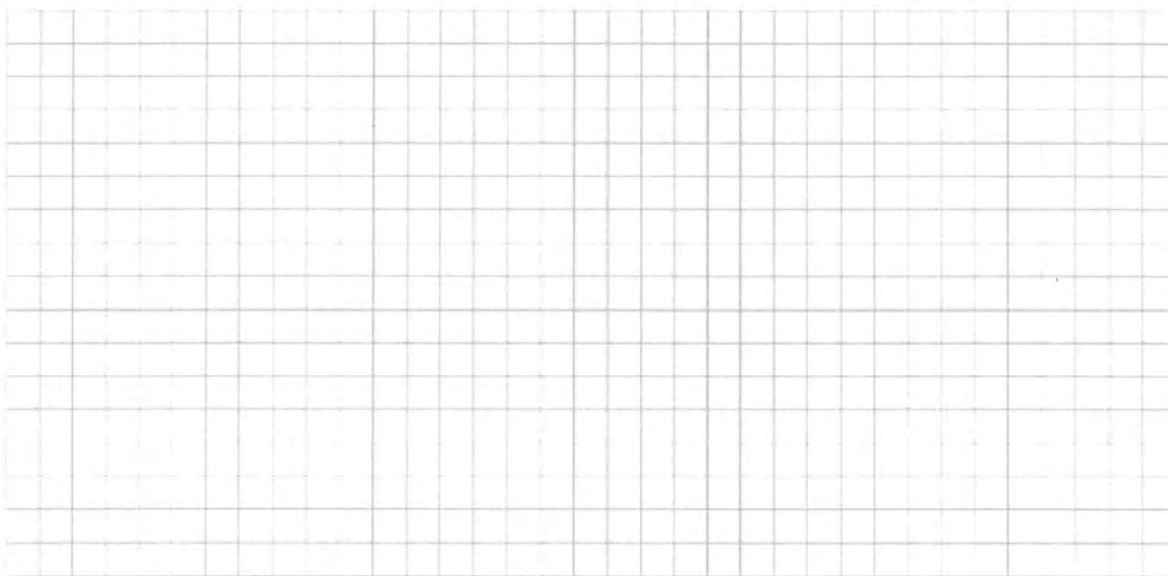
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note that.

Basement:

No basement



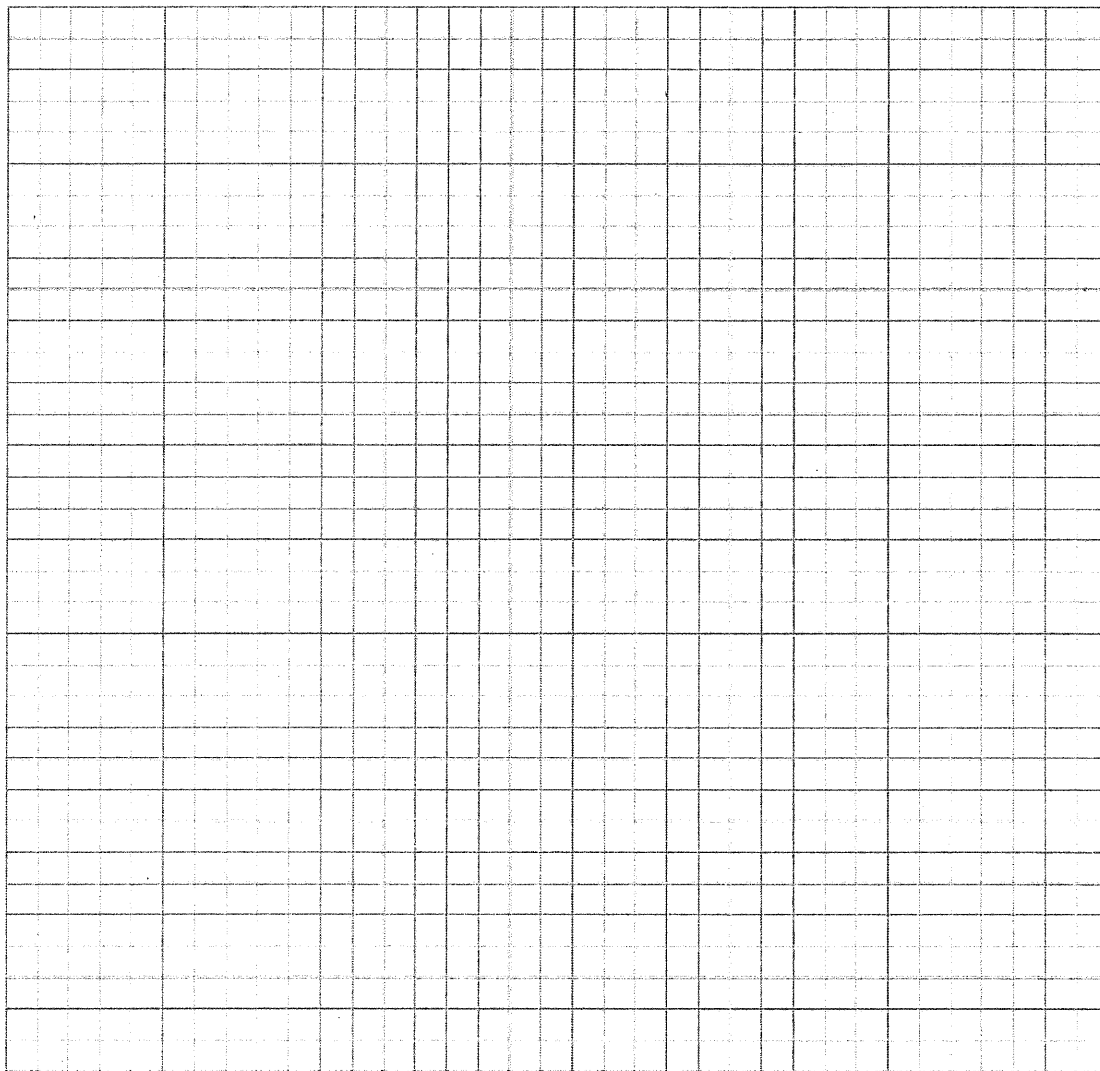
First Floor:



10. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (e.g., industries, gas stations, repair shops, landfills, etc.), outdoor air sampling locations and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the location of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



SECTION II: INDOOR AIR SAMPLING QUESTIONNAIRE

This section should be completed during a presampling walk-through. If indoor air sources of COCs are identified and removed, consider ventilating the building prior to sampling. However, ventilation and heating systems should be operating normally for 24 hours prior to sampling.

a) 1. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

Is there an attached garage?

Y ☒ N

Does the garage have a separate heating unit?

Y / N / ☒ NA

Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, ATV, or car)

Y / N / ☒ NA

Please specify _____

Has the building ever had a fire? *to my knowledge*

Y ☒ N

When? _____

Is a kerosene or unvented gas space heater present?

Y ☒ N

Where? _____

Is there a workshop or hobby/craft area?

Y ☒ N

Where and type _____

Is there smoking in the building?

Y ☒ N

How frequently? _____

Has painting/staining been done in the last six months?

Y ☒ N

Where and when? _____

Is there new carpet, drapes or other textiles?

Y ☒ N

Where and when? _____

Is there a kitchen exhaust fan?

Y ☒ N

If yes, where is it vented? _____

Is there a bathroom exhaust fan?

☒ Y ☒ N

If yes, where is it vented? _____

Is there a clothes dryer?

Y ☒ N

If yes, is it vented outside? Y / N

Are cleaning products, cosmetic products, or pesticides used that could interfere with indoor air sampling? Y / N

If yes, please describe _____

Do any of the building occupants use solvents at work?

☒ Y ☒ N

Peraton

(For example, is the building used for chemical manufacturing or a laboratory, auto mechanic or auto body shop, painting shop, fuel oil delivery area, or do any of the occupants work as a boiler mechanic, pesticide applicator, or cosmetologist?)

If yes, what types of solvents are used? _____

If yes, are his/her/their clothes washed at work?

Y ☒ N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry cleaning regularly (weekly)

No

Yes, use dry cleaning infrequently (monthly or less)

Unknown

Yes, work at a dry cleaning services

2. **PRODUCT INVENTORY FORM** (For use during building walk-through.)

Make and model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality:

| Location | Product Description | Site (units) | Condition ¹ | Chemical Ingredients | Field Instrument Reading (units) | Photo ² <u>Y / N</u> |
|----------|---------------------|--------------|------------------------|----------------------|----------------------------------|------------------------------------|
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¹ Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**.

² Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

This form was modified from:

ITRC (Interstate Technology and Regulatory Council). 2007. *Vapor Intrusion Pathway: A Practical Guideline*. VI-1. Washington, D.C.: Interstate Technology and Regulatory Council, Vapor Intrusion Team. Available at: www.itrcweb.org.

ATTACHMENT 4 – ANALYTICAL LABORATORY REPORTS

2/13/2020

Mr. Tyler Curley

EA Engineering

320 Gold Avenue, SW

Suite 1300

Albuquerque NM 87102

Project Name: COPPER POINTE

Project #: 20146

Workorder #: 2001745B

Dear Mr. Tyler Curley

The following report includes the data for the above referenced project for sample(s) received on 1/31/2020 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker

Project Manager

WORK ORDER #: 2001745B

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Tyler Curley EA Engineering 320 Gold Avenue, SW Suite 1300 Albuquerque, NM 87102 | BILL TO: | Accounts Payable - Lewisville EA Engineering 405 S. Highway 121 Suite C-100 Lewisville, TX 75067 |
| PHONE: | (505) 224-9013 | P.O. # | 20146 |
| FAX: | (505) 224-9016 | PROJECT # | 20146 COPPER POINTE |
| DATE RECEIVED: | 01/31/2020 | CONTACT: | Brian Whittaker |
| DATE COMPLETED: | 02/13/2020 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|----------------|-------------------------------|---------------------------|
| 11A | IA-C-05 | Modified TO-15 | 9.8 "Hg | 5.3 psi |
| 11B | IA-C-05 | Modified TO-15 | 9.8 "Hg | 5.3 psi |
| 12A | IA-C-06 | Modified TO-15 | 9.8 "Hg | 5.3 psi |
| 12B | IA-C-06 | Modified TO-15 | 9.8 "Hg | 5.3 psi |
| 13A | IA-C-07 | Modified TO-15 | 8.2 "Hg | 5.1 psi |
| 13B | IA-C-07 | Modified TO-15 | 8.2 "Hg | 5.1 psi |
| 14A | IA-C-08 | Modified TO-15 | 9.8 "Hg | 5.1 psi |
| 14B | IA-C-08 | Modified TO-15 | 9.8 "Hg | 5.1 psi |
| 15A | IA-C-09 | Modified TO-15 | 9.2 "Hg | 5.3 psi |
| 15B | IA-C-09 | Modified TO-15 | 9.2 "Hg | 5.3 psi |
| 16A | IA-C-10 | Modified TO-15 | 9.6 "Hg | 5.1 psi |
| 16B | IA-C-10 | Modified TO-15 | 9.6 "Hg | 5.1 psi |
| 17A | IA-C-11 | Modified TO-15 | 9.6 "Hg | 5.2 psi |
| 17B | IA-C-11 | Modified TO-15 | 9.6 "Hg | 5.2 psi |
| 18A | IA-C-12 | Modified TO-15 | 10.8 "Hg | 5.2 psi |
| 18B | IA-C-12 | Modified TO-15 | 10.8 "Hg | 5.2 psi |
| 19A | IA-C-13 | Modified TO-15 | 9.8 "Hg | 4.9 psi |
| 19B | IA-C-13 | Modified TO-15 | 9.8 "Hg | 4.9 psi |
| 20A | IA-C-14 | Modified TO-15 | 10.2 "Hg | 5.2 psi |
| 20B | IA-C-14 | Modified TO-15 | 10.2 "Hg | 5.2 psi |
| 21A | OA-01 | Modified TO-15 | 9.6 "Hg | 5.4 psi |
| 21B | OA-01 | Modified TO-15 | 9.6 "Hg | 5.4 psi |
| 22A | IA-C-08-D | Modified TO-15 | 10.8 "Hg | 5 psi |

Continued on next page

WORK ORDER #: 2001745B

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Tyler Curley EA Engineering 320 Gold Avenue, SW Suite 1300 Albuquerque, NM 87102 | BILL TO: | Accounts Payable - Lewisville EA Engineering 405 S. Highway 121 Suite C-100 Lewisville, TX 75067 |
| PHONE: | (505) 224-9013 | P.O. # | 20146 |
| FAX: | (505) 224-9016 | PROJECT # | 20146 COPPER POINTE |
| DATE RECEIVED: | 01/31/2020 | CONTACT: | Brian Whittaker |
| DATE COMPLETED: | 02/13/2020 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|----------------|-------------------------------|---------------------------|
| 22B | IA-C-08-D | Modified TO-15 | 10.8 "Hg | 5 psi |
| 23A | Lab Blank | Modified TO-15 | NA | NA |
| 23B | Lab Blank | Modified TO-15 | NA | NA |
| 23C | Lab Blank | Modified TO-15 | NA | NA |
| 23D | Lab Blank | Modified TO-15 | NA | NA |
| 23E | Lab Blank | Modified TO-15 | NA | NA |
| 23F | Lab Blank | Modified TO-15 | NA | NA |
| 24A | CCV | Modified TO-15 | NA | NA |
| 24B | CCV | Modified TO-15 | NA | NA |
| 24C | CCV | Modified TO-15 | NA | NA |
| 24D | CCV | Modified TO-15 | NA | NA |
| 24E | CCV | Modified TO-15 | NA | NA |
| 24F | CCV | Modified TO-15 | NA | NA |
| 25A | LCS | Modified TO-15 | NA | NA |
| 25AA | LCSD | Modified TO-15 | NA | NA |
| 25B | LCS | Modified TO-15 | NA | NA |
| 25BB | LCSD | Modified TO-15 | NA | NA |
| 25C | LCS | Modified TO-15 | NA | NA |
| 25CC | LCSD | Modified TO-15 | NA | NA |
| 25D | LCS | Modified TO-15 | NA | NA |
| 25DD | LCSD | Modified TO-15 | NA | NA |
| 25E | LCS | Modified TO-15 | NA | NA |
| 25EE | LCSD | Modified TO-15 | NA | NA |

Continued on next page

WORK ORDER #: 2001745B

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Tyler Curley EA Engineering 320 Gold Avenue, SW Suite 1300 Albuquerque, NM 87102 | BILL TO: | Accounts Payable - Lewisville EA Engineering 405 S. Highway 121 Suite C-100 Lewisville, TX 75067 |
| PHONE: | (505) 224-9013 | P.O. # | 20146 |
| FAX: | (505) 224-9016 | PROJECT # | 20146 COPPER POINTE |
| DATE RECEIVED: | 01/31/2020 | CONTACT: | Brian Whittaker |
| DATE COMPLETED: | 02/13/2020 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|----------------|-------------------------------|---------------------------|
| 25F | LCS | Modified TO-15 | NA | NA |
| 25FF | LCSD | Modified TO-15 | NA | NA |

CERTIFIED BY:



Technical Director

DATE: 02/13/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
EA Engineering
Workorder# 2001745B

Twelve 6 Liter Summa Canister (100% SIM Ambient) samples were received on January 31, 2020. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|--|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD | For Full Scan: 30% RSD with 4 compounds allowed out to $< 40\%$ RSD For SIM: Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD |
| Daily Calibration | $\pm 30\%$ Difference | For Full Scan: $\leq 30\%$ Difference with four allowed out up to $\leq 40\%$.; flag and narrate outliers For SIM: Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

As per client project requirements, the laboratory has reported estimated values for Trichloroethene hit

that is below the Reporting Limit but greater than the Method Detection Limit in sample OA-01. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on samples IA-C-05, IA-C-06, IA-C-07, IA-C-08, IA-C-09, IA-C-10, IA-C-11, IA-C-12, IA-C-13, IA-C-14 and IA-C-08-D due to the presence of high level target species.

The Relative Percent Difference (RPD) of the LCS/LCSD exceeded acceptance limits for 1,2,4-Trichlorobenzene (analytical batch from instrument MSDV).

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-05

Lab ID#: 2001745B-11A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 2.5 | 390 E | 4.8 | 730 E |
| Acetone | 5.0 | 36 | 12 | 86 |
| 2-Propanol | 2.5 | 4.4 | 6.2 | 11 |
| 2-Butanone (Methyl Ethyl Ketone) | 2.5 | 3.8 | 7.4 | 11 |

Client Sample ID: IA-C-05

Lab ID#: 2001745B-11B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.10 | 0.47 | 0.50 | 2.3 |
| 1,1,1-Trichloroethane | 0.10 | 0.22 | 0.55 | 1.2 |
| Benzene | 0.25 | 0.28 | 0.81 | 0.89 |
| Trichloroethene | 0.10 | 0.18 | 0.54 | 0.96 |
| Toluene | 0.25 | 1.0 | 0.95 | 3.8 |
| Ethyl Benzene | 0.10 | 12 | 0.44 | 53 |
| m,p-Xylene | 0.20 | 65 | 0.88 | 280 |
| o-Xylene | 0.10 | 22 | 0.44 | 94 |

Client Sample ID: IA-C-06

Lab ID#: 2001745B-12A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 2.5 | 420 E | 4.8 | 800 E |
| Acetone | 5.0 | 20 | 12 | 48 |
| 2-Propanol | 2.5 | 3.6 | 6.2 | 8.8 |

Client Sample ID: IA-C-06

Lab ID#: 2001745B-12B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.10 | 0.48 | 0.50 | 2.4 |
| 1,1,1-Trichloroethane | 0.10 | 0.24 | 0.55 | 1.3 |

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-06

Lab ID#: 2001745B-12B

| | | | | |
|-----------------|------|------|------|------|
| Benzene | 0.25 | 0.28 | 0.81 | 0.91 |
| Trichloroethene | 0.10 | 0.28 | 0.54 | 1.5 |
| Toluene | 0.25 | 1.0 | 0.95 | 3.8 |
| Ethyl Benzene | 0.10 | 13 | 0.44 | 55 |
| m,p-Xylene | 0.20 | 69 | 0.88 | 300 |
| o-Xylene | 0.10 | 23 | 0.44 | 98 |

Client Sample ID: IA-C-07

Lab ID#: 2001745B-13A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 2.3 | 360 E | 4.4 | 690 E |
| Acetone | 4.6 | 18 | 11 | 42 |
| 2-Propanol | 2.3 | 3.4 | 5.7 | 8.2 |

Client Sample ID: IA-C-07

Lab ID#: 2001745B-13B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.092 | 0.48 | 0.46 | 2.4 |
| 1,1,1-Trichloroethane | 0.092 | 0.24 | 0.50 | 1.3 |
| Benzene | 0.23 | 0.26 | 0.74 | 0.84 |
| Trichloroethene | 0.092 | 0.18 | 0.50 | 0.96 |
| Toluene | 0.23 | 1.0 | 0.87 | 3.8 |
| Ethyl Benzene | 0.092 | 13 | 0.40 | 58 |
| m,p-Xylene | 0.18 | 74 | 0.80 | 320 |
| o-Xylene | 0.092 | 24 | 0.40 | 100 |

Client Sample ID: IA-C-08

Lab ID#: 2001745B-14A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 2.5 | 510 E | 4.7 | 950 E |
| Acetone | 5.0 | 33 | 12 | 78 |

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-08

Lab ID#: 2001745B-14A

| | | | | |
|----------------------------------|-----|-----|-----|-----|
| 2-Propanol | 2.5 | 4.7 | 6.1 | 12 |
| 2-Butanone (Methyl Ethyl Ketone) | 2.5 | 3.3 | 7.4 | 9.8 |

Client Sample ID: IA-C-08

Lab ID#: 2001745B-14B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.10 | 0.50 | 0.49 | 2.4 |
| 1,1,1-Trichloroethane | 0.10 | 0.25 | 0.54 | 1.4 |
| Benzene | 0.25 | 0.30 | 0.80 | 0.96 |
| Trichloroethene | 0.10 | 0.19 | 0.54 | 1.0 |
| Toluene | 0.25 | 1.0 | 0.94 | 3.9 |
| Ethyl Benzene | 0.10 | 13 | 0.43 | 56 |
| m,p-Xylene | 0.20 | 70 | 0.87 | 300 |
| o-Xylene | 0.10 | 23 | 0.43 | 100 |

Client Sample ID: IA-C-09

Lab ID#: 2001745B-15A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 3.3 | 680 E | 6.2 | 1300 E |
| Acetone | 6.5 | 18 | 16 | 44 |
| 2-Propanol | 3.3 | 3.6 | 8.0 | 8.8 |

Client Sample ID: IA-C-09

Lab ID#: 2001745B-15B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.50 | 0.64 | 2.5 |
| 1,1,1-Trichloroethane | 0.13 | 0.25 | 0.71 | 1.4 |
| Trichloroethene | 0.13 | 0.19 | 0.70 | 1.0 |
| Toluene | 0.33 | 1.0 | 1.2 | 3.9 |
| Ethyl Benzene | 0.13 | 12 | 0.57 | 54 |
| m,p-Xylene | 0.26 | 66 | 1.1 | 290 |

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-09

Lab ID#: 2001745B-15B

| | | | | |
|----------|------|----|------|----|
| o-Xylene | 0.13 | 22 | 0.57 | 98 |
|----------|------|----|------|----|

Client Sample ID: IA-C-10

Lab ID#: 2001745B-16A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 3.3 | 980 E | 6.2 | 1800 E |
| Acetone | 6.6 | 35 | 16 | 83 |
| 2-Propanol | 3.3 | 4.9 | 8.1 | 12 |

Client Sample ID: IA-C-10

Lab ID#: 2001745B-16B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.48 | 0.65 | 2.4 |
| 1,1,1-Trichloroethane | 0.13 | 0.17 | 0.72 | 0.94 |
| Trichloroethene | 0.13 | 0.20 | 0.71 | 1.0 |
| Toluene | 0.33 | 1.1 | 1.2 | 4.1 |
| Ethyl Benzene | 0.13 | 13 | 0.57 | 56 |
| m,p-Xylene | 0.26 | 70 | 1.1 | 300 |
| o-Xylene | 0.13 | 24 | 0.57 | 100 |

Client Sample ID: IA-C-11

Lab ID#: 2001745B-17A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 3.3 | 1000 E | 6.2 | 1900 E |
| Acetone | 6.6 | 18 | 16 | 42 |
| 2-Propanol | 3.3 | 4.2 | 8.1 | 10 |

Client Sample ID: IA-C-11

Lab ID#: 2001745B-17B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------|----------------------|------------------|-----------------------|-------------------|
|----------|----------------------|------------------|-----------------------|-------------------|

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-11

Lab ID#: 2001745B-17B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.48 | 0.66 | 2.4 |
| 1,1,1-Trichloroethane | 0.13 | 0.16 | 0.72 | 0.87 |
| Trichloroethene | 0.13 | 0.18 | 0.71 | 0.95 |
| Toluene | 0.33 | 1.1 | 1.2 | 4.2 |
| Ethyl Benzene | 0.13 | 12 | 0.58 | 53 |
| m,p-Xylene | 0.26 | 66 | 1.2 | 290 |
| o-Xylene | 0.13 | 23 | 0.58 | 99 |

Client Sample ID: IA-C-12

Lab ID#: 2001745B-18A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 2.6 | 1000 E | 5.0 | 1900 E |
| Acetone | 5.3 | 22 | 12 | 52 |
| 2-Propanol | 2.6 | 5.6 | 6.5 | 14 |

Client Sample ID: IA-C-12

Lab ID#: 2001745B-18B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.11 | 0.47 | 0.52 | 2.3 |
| 1,1,1-Trichloroethane | 0.11 | 0.13 | 0.58 | 0.71 |
| Benzene | 0.26 | 0.34 | 0.85 | 1.1 |
| Trichloroethene | 0.11 | 0.21 | 0.57 | 1.1 |
| Toluene | 0.26 | 0.98 | 1.0 | 3.7 |
| Ethyl Benzene | 0.11 | 9.9 | 0.46 | 43 |
| m,p-Xylene | 0.21 | 48 | 0.92 | 210 |
| o-Xylene | 0.11 | 16 | 0.46 | 72 |

Client Sample ID: IA-C-13

Lab ID#: 2001745B-19A

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-13

Lab ID#: 2001745B-19A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 3.3 | 960 E | 6.2 | 1800 E |
| Acetone | 6.6 | 16 | 16 | 37 |

Client Sample ID: IA-C-13

Lab ID#: 2001745B-19B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.49 | 0.65 | 2.4 |
| 1,1,1-Trichloroethane | 0.13 | 0.13 J | 0.72 | 0.70 J |
| Benzene | 0.33 | 0.38 | 1.0 | 1.2 |
| Trichloroethene | 0.13 | 0.23 | 0.71 | 1.2 |
| Toluene | 0.33 | 1.1 | 1.2 | 4.3 |
| Ethyl Benzene | 0.13 | 10 | 0.57 | 44 |
| m,p-Xylene | 0.26 | 67 | 1.1 | 290 |
| o-Xylene | 0.13 | 17 | 0.57 | 72 |

Client Sample ID: IA-C-14

Lab ID#: 2001745B-20A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 3.4 | 1600 E | 6.4 | 2900 E |
| Acetone | 6.8 | 25 | 16 | 60 |
| 2-Propanol | 3.4 | 5.8 | 8.4 | 14 |

Client Sample ID: IA-C-14

Lab ID#: 2001745B-20B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.14 | 0.46 | 0.68 | 2.3 |
| Benzene | 0.34 | 0.36 | 1.1 | 1.2 |
| Trichloroethene | 0.14 | 0.18 | 0.73 | 0.94 |
| Toluene | 0.34 | 1.1 | 1.3 | 4.2 |

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-14

Lab ID#: 2001745B-20B

| | | | | |
|---------------|------|-----|------|-----|
| Ethyl Benzene | 0.14 | 9.1 | 0.59 | 39 |
| m,p-Xylene | 0.27 | 44 | 1.2 | 190 |
| o-Xylene | 0.14 | 15 | 0.59 | 67 |

Client Sample ID: OA-01

Lab ID#: 2001745B-21A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------|----------------------|------------------|-----------------------|-------------------|
| Freon 11 | 0.20 | 0.21 | 1.1 | 1.2 |
| Ethanol | 1.0 | 2.1 | 1.9 | 3.9 |
| Acetone | 2.0 | 3.9 | 4.8 | 9.3 |

Client Sample ID: OA-01

Lab ID#: 2001745B-21B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.040 | 0.47 | 0.20 | 2.3 |
| Carbon Tetrachloride | 0.040 | 0.061 | 0.25 | 0.38 |
| Benzene | 0.10 | 0.20 | 0.32 | 0.66 |
| Toluene | 0.10 | 0.33 | 0.38 | 1.2 |
| Ethyl Benzene | 0.040 | 0.052 | 0.17 | 0.23 |
| m,p-Xylene | 0.080 | 0.14 | 0.35 | 0.61 |
| o-Xylene | 0.040 | 0.057 | 0.17 | 0.25 |

Client Sample ID: IA-C-08-D

Lab ID#: 2001745B-22A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 2.6 | 520 E | 4.9 | 970 E |
| Acetone | 5.2 | 41 | 12 | 98 |
| 2-Propanol | 2.6 | 4.8 | 6.4 | 12 |

Client Sample ID: IA-C-08-D

Lab ID#: 2001745B-22B

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-08-D

Lab ID#: 2001745B-22B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.10 | 0.46 | 0.52 | 2.3 |
| 1,1,1-Trichloroethane | 0.10 | 0.23 | 0.57 | 1.2 |
| Benzene | 0.26 | 0.31 | 0.84 | 1.0 |
| Trichloroethene | 0.10 | 0.17 | 0.56 | 0.91 |
| Toluene | 0.26 | 0.92 | 0.99 | 3.5 |
| Ethyl Benzene | 0.10 | 10 | 0.46 | 45 |
| m,p-Xylene | 0.21 | 49 | 0.91 | 210 |
| o-Xylene | 0.10 | 17 | 0.46 | 73 |

Client Sample ID: IA-C-05

Lab ID#: 2001745B-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021217 | Date of Collection: | 1/29/20 4:50:00 PM |
| Dil. Factor: | 5.05 | Date of Analysis: | 2/12/20 08:07 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.50 | Not Detected | 1.1 | Not Detected |
| Bromomethane | 2.5 | Not Detected | 9.8 | Not Detected |
| Freon 11 | 0.50 | Not Detected | 2.8 | Not Detected |
| Ethanol | 2.5 | 390 E | 4.8 | 730 E |
| Freon 113 | 0.50 | Not Detected | 3.9 | Not Detected |
| Acetone | 5.0 | 36 | 12 | 86 |
| 2-Propanol | 2.5 | 4.4 | 6.2 | 11 |
| Carbon Disulfide | 2.5 | Not Detected | 7.9 | Not Detected |
| 3-Chloropropene | 2.5 | Not Detected | 7.9 | Not Detected |
| Methylene Chloride | 1.0 | Not Detected | 3.5 | Not Detected |
| Hexane | 2.5 | Not Detected | 8.9 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2.5 | 3.8 | 7.4 | 11 |
| Tetrahydrofuran | 2.5 | Not Detected | 7.4 | Not Detected |
| Cyclohexane | 0.50 | Not Detected | 1.7 | Not Detected |
| 2,2,4-Trimethylpentane | 2.5 | Not Detected | 12 | Not Detected |
| Heptane | 2.5 | Not Detected | 10 | Not Detected |
| 1,2-Dichloropropane | 0.50 | Not Detected | 2.3 | Not Detected |
| 1,4-Dioxane | 0.50 | Not Detected | 1.8 | Not Detected |
| Bromodichloromethane | 0.50 | Not Detected | 3.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 4-Methyl-2-pentanone | 0.50 | Not Detected | 2.1 | Not Detected |
| trans-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 2-Hexanone | 2.5 | Not Detected | 10 | Not Detected |
| Dibromochloromethane | 0.50 | Not Detected | 4.3 | Not Detected |
| Chlorobenzene | 0.50 | Not Detected | 2.3 | Not Detected |
| Styrene | 0.50 | Not Detected | 2.2 | Not Detected |
| Bromoform | 0.50 | Not Detected | 5.2 | Not Detected |
| Cumene | 0.50 | Not Detected | 2.5 | Not Detected |
| Propylbenzene | 0.50 | Not Detected | 2.5 | Not Detected |
| 4-Ethyltoluene | 0.50 | Not Detected | 2.5 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.50 | Not Detected | 2.5 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.50 | Not Detected | 2.5 | Not Detected |
| 1,3-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| alpha-Chlorotoluene | 0.50 | Not Detected | 2.6 | Not Detected |
| 1,2-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.5 | Not Detected | 19 | Not Detected |
| Hexachlorobutadiene | 2.5 | Not Detected | 27 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-05

Lab ID#: 2001745B-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021217 | Date of Collection: 1/29/20 4:50:00 PM |
| Dil. Factor: | 5.05 | Date of Analysis: 2/12/20 08:07 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 91 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

Client Sample ID: IA-C-05

Lab ID#: 2001745B-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021217sim | Date of Collection: | 1/29/20 4:50:00 PM |
| Dil. Factor: | 5.05 | Date of Analysis: | 2/12/20 08:07 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.10 | 0.47 | 0.50 | 2.3 |
| Freon 114 | 0.10 | Not Detected | 0.71 | Not Detected |
| Chloromethane | 2.5 | Not Detected | 5.2 | Not Detected |
| Vinyl Chloride | 0.050 | Not Detected | 0.13 | Not Detected |
| Chloroethane | 0.25 | Not Detected | 0.67 | Not Detected |
| 1,1-Dichloroethene | 0.050 | Not Detected | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Methyl tert-butyl ether | 0.50 | Not Detected | 1.8 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.41 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | 0.22 | 0.55 | 1.2 |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.64 | Not Detected |
| Benzene | 0.25 | 0.28 | 0.81 | 0.89 |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.41 | Not Detected |
| Trichloroethene | 0.10 | 0.18 | 0.54 | 0.96 |
| Toluene | 0.25 | 1.0 | 0.95 | 3.8 |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.55 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.78 | Not Detected |
| Ethyl Benzene | 0.10 | 12 | 0.44 | 53 |
| m,p-Xylene | 0.20 | 65 | 0.88 | 280 |
| o-Xylene | 0.10 | 22 | 0.44 | 94 |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.69 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.61 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

Client Sample ID: IA-C-06

Lab ID#: 2001745B-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021218 | Date of Collection: | 1/29/20 4:56:00 PM |
| Dil. Factor: | 5.05 | Date of Analysis: | 2/12/20 08:46 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.50 | Not Detected | 1.1 | Not Detected |
| Bromomethane | 2.5 | Not Detected | 9.8 | Not Detected |
| Freon 11 | 0.50 | Not Detected | 2.8 | Not Detected |
| Ethanol | 2.5 | 420 E | 4.8 | 800 E |
| Freon 113 | 0.50 | Not Detected | 3.9 | Not Detected |
| Acetone | 5.0 | 20 | 12 | 48 |
| 2-Propanol | 2.5 | 3.6 | 6.2 | 8.8 |
| Carbon Disulfide | 2.5 | Not Detected | 7.9 | Not Detected |
| 3-Chloropropene | 2.5 | Not Detected | 7.9 | Not Detected |
| Methylene Chloride | 1.0 | Not Detected | 3.5 | Not Detected |
| Hexane | 2.5 | Not Detected | 8.9 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2.5 | Not Detected | 7.4 | Not Detected |
| Tetrahydrofuran | 2.5 | Not Detected | 7.4 | Not Detected |
| Cyclohexane | 0.50 | Not Detected | 1.7 | Not Detected |
| 2,2,4-Trimethylpentane | 2.5 | Not Detected | 12 | Not Detected |
| Heptane | 2.5 | Not Detected | 10 | Not Detected |
| 1,2-Dichloropropane | 0.50 | Not Detected | 2.3 | Not Detected |
| 1,4-Dioxane | 0.50 | Not Detected | 1.8 | Not Detected |
| Bromodichloromethane | 0.50 | Not Detected | 3.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 4-Methyl-2-pentanone | 0.50 | Not Detected | 2.1 | Not Detected |
| trans-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 2-Hexanone | 2.5 | Not Detected | 10 | Not Detected |
| Dibromochloromethane | 0.50 | Not Detected | 4.3 | Not Detected |
| Chlorobenzene | 0.50 | Not Detected | 2.3 | Not Detected |
| Styrene | 0.50 | Not Detected | 2.2 | Not Detected |
| Bromoform | 0.50 | Not Detected | 5.2 | Not Detected |
| Cumene | 0.50 | Not Detected | 2.5 | Not Detected |
| Propylbenzene | 0.50 | Not Detected | 2.5 | Not Detected |
| 4-Ethyltoluene | 0.50 | Not Detected | 2.5 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.50 | Not Detected | 2.5 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.50 | Not Detected | 2.5 | Not Detected |
| 1,3-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| alpha-Chlorotoluene | 0.50 | Not Detected | 2.6 | Not Detected |
| 1,2-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.5 | Not Detected | 19 | Not Detected |
| Hexachlorobutadiene | 2.5 | Not Detected | 27 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-06

Lab ID#: 2001745B-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021218 | Date of Collection: 1/29/20 4:56:00 PM |
| Dil. Factor: | 5.05 | Date of Analysis: 2/12/20 08:46 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 92 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

Client Sample ID: IA-C-06

Lab ID#: 2001745B-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021218sim | Date of Collection: | 1/29/20 4:56:00 PM |
| Dil. Factor: | 5.05 | Date of Analysis: | 2/12/20 08:46 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.10 | 0.48 | 0.50 | 2.4 |
| Freon 114 | 0.10 | Not Detected | 0.71 | Not Detected |
| Chloromethane | 2.5 | Not Detected | 5.2 | Not Detected |
| Vinyl Chloride | 0.050 | Not Detected | 0.13 | Not Detected |
| Chloroethane | 0.25 | Not Detected | 0.67 | Not Detected |
| 1,1-Dichloroethene | 0.050 | Not Detected | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Methyl tert-butyl ether | 0.50 | Not Detected | 1.8 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.41 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | 0.24 | 0.55 | 1.3 |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.64 | Not Detected |
| Benzene | 0.25 | 0.28 | 0.81 | 0.91 |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.41 | Not Detected |
| Trichloroethene | 0.10 | 0.28 | 0.54 | 1.5 |
| Toluene | 0.25 | 1.0 | 0.95 | 3.8 |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.55 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.78 | Not Detected |
| Ethyl Benzene | 0.10 | 13 | 0.44 | 55 |
| m,p-Xylene | 0.20 | 69 | 0.88 | 300 |
| o-Xylene | 0.10 | 23 | 0.44 | 98 |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.69 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.61 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

Client Sample ID: IA-C-07

Lab ID#: 2001745B-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021219 | Date of Collection: | 1/29/20 2:41:00 PM |
| Dil. Factor: | 4.62 | Date of Analysis: | 2/12/20 09:25 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.46 | Not Detected | 1.0 | Not Detected |
| Bromomethane | 2.3 | Not Detected | 9.0 | Not Detected |
| Freon 11 | 0.46 | Not Detected | 2.6 | Not Detected |
| Ethanol | 2.3 | 360 E | 4.4 | 690 E |
| Freon 113 | 0.46 | Not Detected | 3.5 | Not Detected |
| Acetone | 4.6 | 18 | 11 | 42 |
| 2-Propanol | 2.3 | 3.4 | 5.7 | 8.2 |
| Carbon Disulfide | 2.3 | Not Detected | 7.2 | Not Detected |
| 3-Chloropropene | 2.3 | Not Detected | 7.2 | Not Detected |
| Methylene Chloride | 0.92 | Not Detected | 3.2 | Not Detected |
| Hexane | 2.3 | Not Detected | 8.1 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2.3 | Not Detected | 6.8 | Not Detected |
| Tetrahydrofuran | 2.3 | Not Detected | 6.8 | Not Detected |
| Cyclohexane | 0.46 | Not Detected | 1.6 | Not Detected |
| 2,2,4-Trimethylpentane | 2.3 | Not Detected | 11 | Not Detected |
| Heptane | 2.3 | Not Detected | 9.5 | Not Detected |
| 1,2-Dichloropropane | 0.46 | Not Detected | 2.1 | Not Detected |
| 1,4-Dioxane | 0.46 | Not Detected | 1.7 | Not Detected |
| Bromodichloromethane | 0.46 | Not Detected | 3.1 | Not Detected |
| cis-1,3-Dichloropropene | 0.46 | Not Detected | 2.1 | Not Detected |
| 4-Methyl-2-pentanone | 0.46 | Not Detected | 1.9 | Not Detected |
| trans-1,3-Dichloropropene | 0.46 | Not Detected | 2.1 | Not Detected |
| 2-Hexanone | 2.3 | Not Detected | 9.5 | Not Detected |
| Dibromochloromethane | 0.46 | Not Detected | 3.9 | Not Detected |
| Chlorobenzene | 0.46 | Not Detected | 2.1 | Not Detected |
| Styrene | 0.46 | Not Detected | 2.0 | Not Detected |
| Bromoform | 0.46 | Not Detected | 4.8 | Not Detected |
| Cumene | 0.46 | Not Detected | 2.3 | Not Detected |
| Propylbenzene | 0.46 | Not Detected | 2.3 | Not Detected |
| 4-Ethyltoluene | 0.46 | Not Detected | 2.3 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.46 | Not Detected | 2.3 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.46 | Not Detected | 2.3 | Not Detected |
| 1,3-Dichlorobenzene | 0.46 | Not Detected | 2.8 | Not Detected |
| alpha-Chlorotoluene | 0.46 | Not Detected | 2.4 | Not Detected |
| 1,2-Dichlorobenzene | 0.46 | Not Detected | 2.8 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.3 | Not Detected | 17 | Not Detected |
| Hexachlorobutadiene | 2.3 | Not Detected | 25 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-07

Lab ID#: 2001745B-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021219 | Date of Collection: 1/29/20 2:41:00 PM |
| Dil. Factor: | 4.62 | Date of Analysis: 2/12/20 09:25 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 91 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

Client Sample ID: IA-C-07

Lab ID#: 2001745B-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021219sim | Date of Collection: | 1/29/20 2:41:00 PM |
| Dil. Factor: | 4.62 | Date of Analysis: | 2/12/20 09:25 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.092 | 0.48 | 0.46 | 2.4 |
| Freon 114 | 0.092 | Not Detected | 0.64 | Not Detected |
| Chloromethane | 2.3 | Not Detected | 4.8 | Not Detected |
| Vinyl Chloride | 0.046 | Not Detected | 0.12 | Not Detected |
| Chloroethane | 0.23 | Not Detected | 0.61 | Not Detected |
| 1,1-Dichloroethene | 0.046 | Not Detected | 0.18 | Not Detected |
| trans-1,2-Dichloroethene | 0.46 | Not Detected | 1.8 | Not Detected |
| Methyl tert-butyl ether | 0.46 | Not Detected | 1.7 | Not Detected |
| 1,1-Dichloroethane | 0.092 | Not Detected | 0.37 | Not Detected |
| cis-1,2-Dichloroethene | 0.092 | Not Detected | 0.37 | Not Detected |
| Chloroform | 0.092 | Not Detected | 0.45 | Not Detected |
| 1,1,1-Trichloroethane | 0.092 | 0.24 | 0.50 | 1.3 |
| Carbon Tetrachloride | 0.092 | Not Detected | 0.58 | Not Detected |
| Benzene | 0.23 | 0.26 | 0.74 | 0.84 |
| 1,2-Dichloroethane | 0.092 | Not Detected | 0.37 | Not Detected |
| Trichloroethene | 0.092 | 0.18 | 0.50 | 0.96 |
| Toluene | 0.23 | 1.0 | 0.87 | 3.8 |
| 1,1,2-Trichloroethane | 0.092 | Not Detected | 0.50 | Not Detected |
| Tetrachloroethene | 0.092 | Not Detected | 0.63 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.092 | Not Detected | 0.71 | Not Detected |
| Ethyl Benzene | 0.092 | 13 | 0.40 | 58 |
| m,p-Xylene | 0.18 | 74 | 0.80 | 320 |
| o-Xylene | 0.092 | 24 | 0.40 | 100 |
| 1,1,2,2-Tetrachloroethane | 0.092 | Not Detected | 0.63 | Not Detected |
| 1,4-Dichlorobenzene | 0.092 | Not Detected | 0.56 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

Client Sample ID: IA-C-08

Lab ID#: 2001745B-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021223 | Date of Collection: | 1/29/20 5:07:00 PM |
| Dil. Factor: | 5.00 | Date of Analysis: | 2/13/20 05:25 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.50 | Not Detected | 1.1 | Not Detected |
| Bromomethane | 2.5 | Not Detected | 9.7 | Not Detected |
| Freon 11 | 0.50 | Not Detected | 2.8 | Not Detected |
| Ethanol | 2.5 | 510 E | 4.7 | 950 E |
| Freon 113 | 0.50 | Not Detected | 3.8 | Not Detected |
| Acetone | 5.0 | 33 | 12 | 78 |
| 2-Propanol | 2.5 | 4.7 | 6.1 | 12 |
| Carbon Disulfide | 2.5 | Not Detected | 7.8 | Not Detected |
| 3-Chloropropene | 2.5 | Not Detected | 7.8 | Not Detected |
| Methylene Chloride | 1.0 | Not Detected | 3.5 | Not Detected |
| Hexane | 2.5 | Not Detected | 8.8 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2.5 | 3.3 | 7.4 | 9.8 |
| Tetrahydrofuran | 2.5 | Not Detected | 7.4 | Not Detected |
| Cyclohexane | 0.50 | Not Detected | 1.7 | Not Detected |
| 2,2,4-Trimethylpentane | 2.5 | Not Detected | 12 | Not Detected |
| Heptane | 2.5 | Not Detected | 10 | Not Detected |
| 1,2-Dichloropropane | 0.50 | Not Detected | 2.3 | Not Detected |
| 1,4-Dioxane | 0.50 | Not Detected | 1.8 | Not Detected |
| Bromodichloromethane | 0.50 | Not Detected | 3.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 4-Methyl-2-pentanone | 0.50 | Not Detected | 2.0 | Not Detected |
| trans-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 2-Hexanone | 2.5 | Not Detected | 10 | Not Detected |
| Dibromochloromethane | 0.50 | Not Detected | 4.2 | Not Detected |
| Chlorobenzene | 0.50 | Not Detected | 2.3 | Not Detected |
| Styrene | 0.50 | Not Detected | 2.1 | Not Detected |
| Bromoform | 0.50 | Not Detected | 5.2 | Not Detected |
| Cumene | 0.50 | Not Detected | 2.4 | Not Detected |
| Propylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 4-Ethyltoluene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,3-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| alpha-Chlorotoluene | 0.50 | Not Detected | 2.6 | Not Detected |
| 1,2-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.5 | Not Detected | 18 | Not Detected |
| Hexachlorobutadiene | 2.5 | Not Detected | 27 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-08

Lab ID#: 2001745B-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021223 | Date of Collection: 1/29/20 5:07:00 PM |
| Dil. Factor: | 5.00 | Date of Analysis: 2/13/20 05:25 AM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |

Client Sample ID: IA-C-08

Lab ID#: 2001745B-14B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021223sim | Date of Collection: | 1/29/20 5:07:00 PM |
| Dil. Factor: | 5.00 | Date of Analysis: | 2/13/20 05:25 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12 | 0.10 | 0.50 | 0.49 | 2.4 |
| Freon 114 | 0.10 | Not Detected | 0.70 | Not Detected |
| Chloromethane | 2.5 | Not Detected | 5.2 | Not Detected |
| Vinyl Chloride | 0.050 | Not Detected | 0.13 | Not Detected |
| Chloroethane | 0.25 | Not Detected | 0.66 | Not Detected |
| 1,1-Dichloroethene | 0.050 | Not Detected | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Methyl tert-butyl ether | 0.50 | Not Detected | 1.8 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | 0.25 | 0.54 | 1.4 |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.63 | Not Detected |
| Benzene | 0.25 | 0.30 | 0.80 | 0.96 |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| Trichloroethene | 0.10 | 0.19 | 0.54 | 1.0 |
| Toluene | 0.25 | 1.0 | 0.94 | 3.9 |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.77 | Not Detected |
| Ethyl Benzene | 0.10 | 13 | 0.43 | 56 |
| m,p-Xylene | 0.20 | 70 | 0.87 | 300 |
| o-Xylene | 0.10 | 23 | 0.43 | 100 |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.69 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 113 | 70-130 |

Client Sample ID: IA-C-09

Lab ID#: 2001745B-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021224 | Date of Collection: | 1/29/20 4:58:00 PM |
| Dil. Factor: | 6.53 | Date of Analysis: | 2/13/20 06:04 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.65 | Not Detected | 1.4 | Not Detected |
| Bromomethane | 3.3 | Not Detected | 13 | Not Detected |
| Freon 11 | 0.65 | Not Detected | 3.7 | Not Detected |
| Ethanol | 3.3 | 680 E | 6.2 | 1300 E |
| Freon 113 | 0.65 | Not Detected | 5.0 | Not Detected |
| Acetone | 6.5 | 18 | 16 | 44 |
| 2-Propanol | 3.3 | 3.6 | 8.0 | 8.8 |
| Carbon Disulfide | 3.3 | Not Detected | 10 | Not Detected |
| 3-Chloropropene | 3.3 | Not Detected | 10 | Not Detected |
| Methylene Chloride | 1.3 | Not Detected | 4.5 | Not Detected |
| Hexane | 3.3 | Not Detected | 12 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 3.3 | Not Detected | 9.6 | Not Detected |
| Tetrahydrofuran | 3.3 | Not Detected | 9.6 | Not Detected |
| Cyclohexane | 0.65 | Not Detected | 2.2 | Not Detected |
| 2,2,4-Trimethylpentane | 3.3 | Not Detected | 15 | Not Detected |
| Heptane | 3.3 | Not Detected | 13 | Not Detected |
| 1,2-Dichloropropane | 0.65 | Not Detected | 3.0 | Not Detected |
| 1,4-Dioxane | 0.65 | Not Detected | 2.4 | Not Detected |
| Bromodichloromethane | 0.65 | Not Detected | 4.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.65 | Not Detected | 3.0 | Not Detected |
| 4-Methyl-2-pentanone | 0.65 | Not Detected | 2.7 | Not Detected |
| trans-1,3-Dichloropropene | 0.65 | Not Detected | 3.0 | Not Detected |
| 2-Hexanone | 3.3 | Not Detected | 13 | Not Detected |
| Dibromochloromethane | 0.65 | Not Detected | 5.6 | Not Detected |
| Chlorobenzene | 0.65 | Not Detected | 3.0 | Not Detected |
| Styrene | 0.65 | Not Detected | 2.8 | Not Detected |
| Bromoform | 0.65 | Not Detected | 6.8 | Not Detected |
| Cumene | 0.65 | Not Detected | 3.2 | Not Detected |
| Propylbenzene | 0.65 | Not Detected | 3.2 | Not Detected |
| 4-Ethyltoluene | 0.65 | Not Detected | 3.2 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.65 | Not Detected | 3.2 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.65 | Not Detected | 3.2 | Not Detected |
| 1,3-Dichlorobenzene | 0.65 | Not Detected | 3.9 | Not Detected |
| alpha-Chlorotoluene | 0.65 | Not Detected | 3.4 | Not Detected |
| 1,2-Dichlorobenzene | 0.65 | Not Detected | 3.9 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.3 | Not Detected | 24 | Not Detected |
| Hexachlorobutadiene | 3.3 | Not Detected | 35 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-09

Lab ID#: 2001745B-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021224 | Date of Collection: 1/29/20 4:58:00 PM |
| Dil. Factor: | 6.53 | Date of Analysis: 2/13/20 06:04 AM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 89 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

Client Sample ID: IA-C-09

Lab ID#: 2001745B-15B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021224sim | Date of Collection: | 1/29/20 4:58:00 PM |
| Dil. Factor: | 6.53 | Date of Analysis: | 2/13/20 06:04 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.50 | 0.64 | 2.5 |
| Freon 114 | 0.13 | Not Detected | 0.91 | Not Detected |
| Chloromethane | 3.3 | Not Detected | 6.7 | Not Detected |
| Vinyl Chloride | 0.065 | Not Detected | 0.17 | Not Detected |
| Chloroethane | 0.33 | Not Detected | 0.86 | Not Detected |
| 1,1-Dichloroethene | 0.065 | Not Detected | 0.26 | Not Detected |
| trans-1,2-Dichloroethene | 0.65 | Not Detected | 2.6 | Not Detected |
| Methyl tert-butyl ether | 0.65 | Not Detected | 2.4 | Not Detected |
| 1,1-Dichloroethane | 0.13 | Not Detected | 0.53 | Not Detected |
| cis-1,2-Dichloroethene | 0.13 | Not Detected | 0.52 | Not Detected |
| Chloroform | 0.13 | Not Detected | 0.64 | Not Detected |
| 1,1,1-Trichloroethane | 0.13 | 0.25 | 0.71 | 1.4 |
| Carbon Tetrachloride | 0.13 | Not Detected | 0.82 | Not Detected |
| Benzene | 0.33 | Not Detected | 1.0 | Not Detected |
| 1,2-Dichloroethane | 0.13 | Not Detected | 0.53 | Not Detected |
| Trichloroethene | 0.13 | 0.19 | 0.70 | 1.0 |
| Toluene | 0.33 | 1.0 | 1.2 | 3.9 |
| 1,1,2-Trichloroethane | 0.13 | Not Detected | 0.71 | Not Detected |
| Tetrachloroethene | 0.13 | Not Detected | 0.88 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.13 | Not Detected | 1.0 | Not Detected |
| Ethyl Benzene | 0.13 | 12 | 0.57 | 54 |
| m,p-Xylene | 0.26 | 66 | 1.1 | 290 |
| o-Xylene | 0.13 | 22 | 0.57 | 98 |
| 1,1,2,2-Tetrachloroethane | 0.13 | Not Detected | 0.90 | Not Detected |
| 1,4-Dichlorobenzene | 0.13 | Not Detected | 0.78 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

Client Sample ID: IA-C-10

Lab ID#: 2001745B-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021225 | Date of Collection: | 1/29/20 5:22:00 PM |
| Dil. Factor: | 6.59 | Date of Analysis: | 2/13/20 06:43 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,3-Butadiene | 0.66 | Not Detected | 1.4 | Not Detected |
| Bromomethane | 3.3 | Not Detected | 13 | Not Detected |
| Freon 11 | 0.66 | Not Detected | 3.7 | Not Detected |
| Ethanol | 3.3 | 980 E | 6.2 | 1800 E |
| Freon 113 | 0.66 | Not Detected | 5.0 | Not Detected |
| Acetone | 6.6 | 35 | 16 | 83 |
| 2-Propanol | 3.3 | 4.9 | 8.1 | 12 |
| Carbon Disulfide | 3.3 | Not Detected | 10 | Not Detected |
| 3-Chloropropene | 3.3 | Not Detected | 10 | Not Detected |
| Methylene Chloride | 1.3 | Not Detected | 4.6 | Not Detected |
| Hexane | 3.3 | Not Detected | 12 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 3.3 | Not Detected | 9.7 | Not Detected |
| Tetrahydrofuran | 3.3 | Not Detected | 9.7 | Not Detected |
| Cyclohexane | 0.66 | Not Detected | 2.3 | Not Detected |
| 2,2,4-Trimethylpentane | 3.3 | Not Detected | 15 | Not Detected |
| Heptane | 3.3 | Not Detected | 14 | Not Detected |
| 1,2-Dichloropropane | 0.66 | Not Detected | 3.0 | Not Detected |
| 1,4-Dioxane | 0.66 | Not Detected | 2.4 | Not Detected |
| Bromodichloromethane | 0.66 | Not Detected | 4.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.66 | Not Detected | 3.0 | Not Detected |
| 4-Methyl-2-pentanone | 0.66 | Not Detected | 2.7 | Not Detected |
| trans-1,3-Dichloropropene | 0.66 | Not Detected | 3.0 | Not Detected |
| 2-Hexanone | 3.3 | Not Detected | 13 | Not Detected |
| Dibromochloromethane | 0.66 | Not Detected | 5.6 | Not Detected |
| Chlorobenzene | 0.66 | Not Detected | 3.0 | Not Detected |
| Styrene | 0.66 | Not Detected | 2.8 | Not Detected |
| Bromoform | 0.66 | Not Detected | 6.8 | Not Detected |
| Cumene | 0.66 | Not Detected | 3.2 | Not Detected |
| Propylbenzene | 0.66 | Not Detected | 3.2 | Not Detected |
| 4-Ethyltoluene | 0.66 | Not Detected | 3.2 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.66 | Not Detected | 3.2 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.66 | Not Detected | 3.2 | Not Detected |
| 1,3-Dichlorobenzene | 0.66 | Not Detected | 4.0 | Not Detected |
| alpha-Chlorotoluene | 0.66 | Not Detected | 3.4 | Not Detected |
| 1,2-Dichlorobenzene | 0.66 | Not Detected | 4.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.3 | Not Detected | 24 | Not Detected |
| Hexachlorobutadiene | 3.3 | Not Detected | 35 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|------------------|
|------------|-----------|------------------|

Client Sample ID: IA-C-10

Lab ID#: 2001745B-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021225 | Date of Collection: 1/29/20 5:22:00 PM |
| Dil. Factor: | 6.59 | Date of Analysis: 2/13/20 06:43 AM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

Client Sample ID: IA-C-10

Lab ID#: 2001745B-16B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021225sim | Date of Collection: | 1/29/20 5:22:00 PM |
| Dil. Factor: | 6.59 | Date of Analysis: | 2/13/20 06:43 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.48 | 0.65 | 2.4 |
| Freon 114 | 0.13 | Not Detected | 0.92 | Not Detected |
| Chloromethane | 3.3 | Not Detected | 6.8 | Not Detected |
| Vinyl Chloride | 0.066 | Not Detected | 0.17 | Not Detected |
| Chloroethane | 0.33 | Not Detected | 0.87 | Not Detected |
| 1,1-Dichloroethene | 0.066 | Not Detected | 0.26 | Not Detected |
| trans-1,2-Dichloroethene | 0.66 | Not Detected | 2.6 | Not Detected |
| Methyl tert-butyl ether | 0.66 | Not Detected | 2.4 | Not Detected |
| 1,1-Dichloroethane | 0.13 | Not Detected | 0.53 | Not Detected |
| cis-1,2-Dichloroethene | 0.13 | Not Detected | 0.52 | Not Detected |
| Chloroform | 0.13 | Not Detected | 0.64 | Not Detected |
| 1,1,1-Trichloroethane | 0.13 | 0.17 | 0.72 | 0.94 |
| Carbon Tetrachloride | 0.13 | Not Detected | 0.83 | Not Detected |
| Benzene | 0.33 | Not Detected | 1.0 | Not Detected |
| 1,2-Dichloroethane | 0.13 | Not Detected | 0.53 | Not Detected |
| Trichloroethene | 0.13 | 0.20 | 0.71 | 1.0 |
| Toluene | 0.33 | 1.1 | 1.2 | 4.1 |
| 1,1,2-Trichloroethane | 0.13 | Not Detected | 0.72 | Not Detected |
| Tetrachloroethene | 0.13 | Not Detected | 0.89 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.13 | Not Detected | 1.0 | Not Detected |
| Ethyl Benzene | 0.13 | 13 | 0.57 | 56 |
| m,p-Xylene | 0.26 | 70 | 1.1 | 300 |
| o-Xylene | 0.13 | 24 | 0.57 | 100 |
| 1,1,2,2-Tetrachloroethane | 0.13 | Not Detected | 0.90 | Not Detected |
| 1,4-Dichlorobenzene | 0.13 | Not Detected | 0.79 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |

Client Sample ID: IA-C-11

Lab ID#: 2001745B-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021226 | Date of Collection: | 1/29/20 5:26:00 PM |
| Dil. Factor: | 6.63 | Date of Analysis: | 2/13/20 07:31 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.66 | Not Detected | 1.5 | Not Detected |
| Bromomethane | 3.3 | Not Detected | 13 | Not Detected |
| Freon 11 | 0.66 | Not Detected | 3.7 | Not Detected |
| Ethanol | 3.3 | 1000 E | 6.2 | 1900 E |
| Freon 113 | 0.66 | Not Detected | 5.1 | Not Detected |
| Acetone | 6.6 | 18 | 16 | 42 |
| 2-Propanol | 3.3 | 4.2 | 8.1 | 10 |
| Carbon Disulfide | 3.3 | Not Detected | 10 | Not Detected |
| 3-Chloropropene | 3.3 | Not Detected | 10 | Not Detected |
| Methylene Chloride | 1.3 | Not Detected | 4.6 | Not Detected |
| Hexane | 3.3 | Not Detected | 12 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 3.3 | Not Detected | 9.8 | Not Detected |
| Tetrahydrofuran | 3.3 | Not Detected | 9.8 | Not Detected |
| Cyclohexane | 0.66 | Not Detected | 2.3 | Not Detected |
| 2,2,4-Trimethylpentane | 3.3 | Not Detected | 15 | Not Detected |
| Heptane | 3.3 | Not Detected | 14 | Not Detected |
| 1,2-Dichloropropane | 0.66 | Not Detected | 3.1 | Not Detected |
| 1,4-Dioxane | 0.66 | Not Detected | 2.4 | Not Detected |
| Bromodichloromethane | 0.66 | Not Detected | 4.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.66 | Not Detected | 3.0 | Not Detected |
| 4-Methyl-2-pentanone | 0.66 | Not Detected | 2.7 | Not Detected |
| trans-1,3-Dichloropropene | 0.66 | Not Detected | 3.0 | Not Detected |
| 2-Hexanone | 3.3 | Not Detected | 14 | Not Detected |
| Dibromochloromethane | 0.66 | Not Detected | 5.6 | Not Detected |
| Chlorobenzene | 0.66 | Not Detected | 3.0 | Not Detected |
| Styrene | 0.66 | Not Detected | 2.8 | Not Detected |
| Bromoform | 0.66 | Not Detected | 6.8 | Not Detected |
| Cumene | 0.66 | Not Detected | 3.2 | Not Detected |
| Propylbenzene | 0.66 | Not Detected | 3.2 | Not Detected |
| 4-Ethyltoluene | 0.66 | Not Detected | 3.2 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.66 | Not Detected | 3.2 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.66 | Not Detected | 3.2 | Not Detected |
| 1,3-Dichlorobenzene | 0.66 | Not Detected | 4.0 | Not Detected |
| alpha-Chlorotoluene | 0.66 | Not Detected | 3.4 | Not Detected |
| 1,2-Dichlorobenzene | 0.66 | Not Detected | 4.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.3 | Not Detected | 25 | Not Detected |
| Hexachlorobutadiene | 3.3 | Not Detected | 35 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-11

Lab ID#: 2001745B-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021226 | Date of Collection: 1/29/20 5:26:00 PM |
| Dil. Factor: | 6.63 | Date of Analysis: 2/13/20 07:31 AM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 90 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 113 | 70-130 |

Client Sample ID: IA-C-11

Lab ID#: 2001745B-17B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021226sim | Date of Collection: | 1/29/20 5:26:00 PM |
| Dil. Factor: | 6.63 | Date of Analysis: | 2/13/20 07:31 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.48 | 0.66 | 2.4 |
| Freon 114 | 0.13 | Not Detected | 0.93 | Not Detected |
| Chloromethane | 3.3 | Not Detected | 6.8 | Not Detected |
| Vinyl Chloride | 0.066 | Not Detected | 0.17 | Not Detected |
| Chloroethane | 0.33 | Not Detected | 0.87 | Not Detected |
| 1,1-Dichloroethene | 0.066 | Not Detected | 0.26 | Not Detected |
| trans-1,2-Dichloroethene | 0.66 | Not Detected | 2.6 | Not Detected |
| Methyl tert-butyl ether | 0.66 | Not Detected | 2.4 | Not Detected |
| 1,1-Dichloroethane | 0.13 | Not Detected | 0.54 | Not Detected |
| cis-1,2-Dichloroethene | 0.13 | Not Detected | 0.52 | Not Detected |
| Chloroform | 0.13 | Not Detected | 0.65 | Not Detected |
| 1,1,1-Trichloroethane | 0.13 | 0.16 | 0.72 | 0.87 |
| Carbon Tetrachloride | 0.13 | Not Detected | 0.83 | Not Detected |
| Benzene | 0.33 | Not Detected | 1.0 | Not Detected |
| 1,2-Dichloroethane | 0.13 | Not Detected | 0.54 | Not Detected |
| Trichloroethene | 0.13 | 0.18 | 0.71 | 0.95 |
| Toluene | 0.33 | 1.1 | 1.2 | 4.2 |
| 1,1,2-Trichloroethane | 0.13 | Not Detected | 0.72 | Not Detected |
| Tetrachloroethene | 0.13 | Not Detected | 0.90 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.13 | Not Detected | 1.0 | Not Detected |
| Ethyl Benzene | 0.13 | 12 | 0.58 | 53 |
| m,p-Xylene | 0.26 | 66 | 1.2 | 290 |
| o-Xylene | 0.13 | 23 | 0.58 | 99 |
| 1,1,2,2-Tetrachloroethane | 0.13 | Not Detected | 0.91 | Not Detected |
| 1,4-Dichlorobenzene | 0.13 | Not Detected | 0.80 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 95 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |



Air Toxics

Client Sample ID: IA-C-12

Lab ID#: 2001745B-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|---------|---------------------|--------------------|
| File Name: | v021226 | Date of Collection: | 1/29/20 5:33:00 PM |
| Dil. Factor: | 5.30 | Date of Analysis: | 2/13/20 08:09 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,3-Butadiene | 0.53 | Not Detected | 1.2 | Not Detected |
| Bromomethane | 2.6 | Not Detected | 10 | Not Detected |
| Freon 11 | 0.53 | Not Detected | 3.0 | Not Detected |
| Ethanol | 2.6 | 1000 E | 5.0 | 1900 E |
| Freon 113 | 0.53 | Not Detected | 4.1 | Not Detected |
| Acetone | 5.3 | 22 | 12 | 52 |
| 2-Propanol | 2.6 | 5.6 | 6.5 | 14 |
| Carbon Disulfide | 2.6 | Not Detected | 8.2 | Not Detected |
| 3-Chloropropene | 2.6 | Not Detected | 8.3 | Not Detected |
| Methylene Chloride | 1.1 | Not Detected | 3.7 | Not Detected |
| Hexane | 2.6 | Not Detected | 9.3 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2.6 | Not Detected | 7.8 | Not Detected |
| Tetrahydrofuran | 2.6 | Not Detected | 7.8 | Not Detected |
| Cyclohexane | 0.53 | Not Detected | 1.8 | Not Detected |
| 2,2,4-Trimethylpentane | 2.6 | Not Detected | 12 | Not Detected |
| Heptane | 2.6 | Not Detected | 11 | Not Detected |
| 1,2-Dichloropropane | 0.53 | Not Detected | 2.4 | Not Detected |
| 1,4-Dioxane | 0.53 | Not Detected | 1.9 | Not Detected |
| Bromodichloromethane | 0.53 | Not Detected | 3.6 | Not Detected |
| cis-1,3-Dichloropropene | 0.53 | Not Detected | 2.4 | Not Detected |
| 4-Methyl-2-pentanone | 0.53 | Not Detected | 2.2 | Not Detected |
| trans-1,3-Dichloropropene | 0.53 | Not Detected | 2.4 | Not Detected |
| 2-Hexanone | 2.6 | Not Detected | 11 | Not Detected |
| Dibromochloromethane | 0.53 | Not Detected | 4.5 | Not Detected |
| Chlorobenzene | 0.53 | Not Detected | 2.4 | Not Detected |
| Styrene | 0.53 | Not Detected | 2.2 | Not Detected |
| Bromoform | 0.53 | Not Detected | 5.5 | Not Detected |
| Cumene | 0.53 | Not Detected | 2.6 | Not Detected |
| Propylbenzene | 0.53 | Not Detected | 2.6 | Not Detected |
| 4-Ethyltoluene | 0.53 | Not Detected | 2.6 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.53 | Not Detected | 2.6 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.53 | Not Detected | 2.6 | Not Detected |
| 1,3-Dichlorobenzene | 0.53 | Not Detected | 3.2 | Not Detected |
| alpha-Chlorotoluene | 0.53 | Not Detected | 2.7 | Not Detected |
| 1,2-Dichlorobenzene | 0.53 | Not Detected | 3.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.6 | Not Detected | 20 | Not Detected |
| Hexachlorobutadiene | 2.6 | Not Detected | 28 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|------------------|
|------------|-----------|------------------|

Client Sample ID: IA-C-12

Lab ID#: 2001745B-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|---------|--|
| File Name: | v021226 | Date of Collection: 1/29/20 5:33:00 PM |
| Dil. Factor: | 5.30 | Date of Analysis: 2/13/20 08:09 AM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 117 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 93 | 70-130 |

Client Sample ID: IA-C-12

Lab ID#: 2001745B-18B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|------------|---------------------|--------------------|
| File Name: | v021226sim | Date of Collection: | 1/29/20 5:33:00 PM |
| Dil. Factor: | 5.30 | Date of Analysis: | 2/13/20 08:09 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.11 | 0.47 | 0.52 | 2.3 |
| Freon 114 | 0.11 | Not Detected | 0.74 | Not Detected |
| Chloromethane | 2.6 | Not Detected | 5.5 | Not Detected |
| Vinyl Chloride | 0.053 | Not Detected | 0.14 | Not Detected |
| Chloroethane | 0.26 | Not Detected | 0.70 | Not Detected |
| 1,1-Dichloroethene | 0.053 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.53 | Not Detected | 2.1 | Not Detected |
| Methyl tert-butyl ether | 0.53 | Not Detected | 1.9 | Not Detected |
| 1,1-Dichloroethane | 0.11 | Not Detected | 0.43 | Not Detected |
| cis-1,2-Dichloroethene | 0.11 | Not Detected | 0.42 | Not Detected |
| Chloroform | 0.11 | Not Detected | 0.52 | Not Detected |
| 1,1,1-Trichloroethane | 0.11 | 0.13 | 0.58 | 0.71 |
| Carbon Tetrachloride | 0.11 | Not Detected | 0.67 | Not Detected |
| Benzene | 0.26 | 0.34 | 0.85 | 1.1 |
| 1,2-Dichloroethane | 0.11 | Not Detected | 0.43 | Not Detected |
| Trichloroethene | 0.11 | 0.21 | 0.57 | 1.1 |
| Toluene | 0.26 | 0.98 | 1.0 | 3.7 |
| 1,1,2-Trichloroethane | 0.11 | Not Detected | 0.58 | Not Detected |
| Tetrachloroethene | 0.11 | Not Detected | 0.72 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.11 | Not Detected | 0.81 | Not Detected |
| Ethyl Benzene | 0.11 | 9.9 | 0.46 | 43 |
| m,p-Xylene | 0.21 | 48 | 0.92 | 210 |
| o-Xylene | 0.11 | 16 | 0.46 | 72 |
| 1,1,2,2-Tetrachloroethane | 0.11 | Not Detected | 0.73 | Not Detected |
| 1,4-Dichlorobenzene | 0.11 | Not Detected | 0.64 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 116 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 89 | 70-130 |

Client Sample ID: IA-C-13

Lab ID#: 2001745B-19A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 22021223 | Date of Collection: | 1/29/20 5:14:00 PM |
| Dil. Factor: | 6.60 | Date of Analysis: | 2/13/20 06:58 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.66 | Not Detected | 1.5 | Not Detected |
| Bromomethane | 3.3 | Not Detected | 13 | Not Detected |
| Freon 11 | 0.66 | Not Detected | 3.7 | Not Detected |
| Ethanol | 3.3 | 960 E | 6.2 | 1800 E |
| Freon 113 | 0.66 | Not Detected | 5.0 | Not Detected |
| Acetone | 6.6 | 16 | 16 | 37 |
| 2-Propanol | 3.3 | Not Detected | 8.1 | Not Detected |
| Carbon Disulfide | 3.3 | Not Detected | 10 | Not Detected |
| 3-Chloropropene | 3.3 | Not Detected | 10 | Not Detected |
| Methylene Chloride | 1.3 | Not Detected | 4.6 | Not Detected |
| Hexane | 3.3 | Not Detected | 12 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 3.3 | Not Detected | 9.7 | Not Detected |
| Tetrahydrofuran | 3.3 | Not Detected | 9.7 | Not Detected |
| Cyclohexane | 0.66 | Not Detected | 2.3 | Not Detected |
| 2,2,4-Trimethylpentane | 3.3 | Not Detected | 15 | Not Detected |
| Heptane | 3.3 | Not Detected | 14 | Not Detected |
| 1,2-Dichloropropane | 0.66 | Not Detected | 3.0 | Not Detected |
| 1,4-Dioxane | 0.66 | Not Detected | 2.4 | Not Detected |
| Bromodichloromethane | 0.66 | Not Detected | 4.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.66 | Not Detected | 3.0 | Not Detected |
| 4-Methyl-2-pentanone | 0.66 | Not Detected | 2.7 | Not Detected |
| trans-1,3-Dichloropropene | 0.66 | Not Detected | 3.0 | Not Detected |
| 2-Hexanone | 3.3 | Not Detected | 14 | Not Detected |
| Dibromochloromethane | 0.66 | Not Detected | 5.6 | Not Detected |
| Chlorobenzene | 0.66 | Not Detected | 3.0 | Not Detected |
| Styrene | 0.66 | Not Detected | 2.8 | Not Detected |
| Bromoform | 0.66 | Not Detected | 6.8 | Not Detected |
| Cumene | 0.66 | Not Detected | 3.2 | Not Detected |
| Propylbenzene | 0.66 | Not Detected | 3.2 | Not Detected |
| 4-Ethyltoluene | 0.66 | Not Detected | 3.2 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.66 | Not Detected | 3.2 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.66 | Not Detected | 3.2 | Not Detected |
| 1,3-Dichlorobenzene | 0.66 | Not Detected | 4.0 | Not Detected |
| alpha-Chlorotoluene | 0.66 | Not Detected | 3.4 | Not Detected |
| 1,2-Dichlorobenzene | 0.66 | Not Detected | 4.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.3 | Not Detected | 24 | Not Detected |
| Hexachlorobutadiene | 3.3 | Not Detected | 35 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-13

Lab ID#: 2001745B-19A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 22021223 | Date of Collection: 1/29/20 5:14:00 PM |
| Dil. Factor: | 6.60 | Date of Analysis: 2/13/20 06:58 AM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 124 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Client Sample ID: IA-C-13

Lab ID#: 2001745B-19B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 22021223sim | Date of Collection: | 1/29/20 5:14:00 PM |
| Dil. Factor: | 6.60 | Date of Analysis: | 2/13/20 06:58 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.49 | 0.65 | 2.4 |
| Freon 114 | 0.13 | Not Detected | 0.92 | Not Detected |
| Chloromethane | 3.3 | Not Detected | 6.8 | Not Detected |
| Vinyl Chloride | 0.066 | Not Detected | 0.17 | Not Detected |
| Chloroethane | 0.33 | Not Detected | 0.87 | Not Detected |
| 1,1-Dichloroethene | 0.066 | Not Detected | 0.26 | Not Detected |
| trans-1,2-Dichloroethene | 0.66 | Not Detected | 2.6 | Not Detected |
| Methyl tert-butyl ether | 0.66 | Not Detected | 2.4 | Not Detected |
| 1,1-Dichloroethane | 0.13 | Not Detected | 0.53 | Not Detected |
| cis-1,2-Dichloroethene | 0.13 | Not Detected | 0.52 | Not Detected |
| Chloroform | 0.13 | Not Detected | 0.64 | Not Detected |
| 1,1,1-Trichloroethane | 0.13 | 0.13 J | 0.72 | 0.70 J |
| Carbon Tetrachloride | 0.13 | Not Detected | 0.83 | Not Detected |
| Benzene | 0.33 | 0.38 | 1.0 | 1.2 |
| 1,2-Dichloroethane | 0.13 | Not Detected | 0.53 | Not Detected |
| Trichloroethene | 0.13 | 0.23 | 0.71 | 1.2 |
| Toluene | 0.33 | 1.1 | 1.2 | 4.3 |
| 1,1,2-Trichloroethane | 0.13 | Not Detected | 0.72 | Not Detected |
| Tetrachloroethene | 0.13 | Not Detected | 0.90 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.13 | Not Detected | 1.0 | Not Detected |
| Ethyl Benzene | 0.13 | 10 | 0.57 | 44 |
| m,p-Xylene | 0.26 | 67 | 1.1 | 290 |
| o-Xylene | 0.13 | 17 | 0.57 | 72 |
| 1,1,2,2-Tetrachloroethane | 0.13 | Not Detected | 0.91 | Not Detected |
| 1,4-Dichlorobenzene | 0.13 | Not Detected | 0.79 | Not Detected |

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 115 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

Client Sample ID: IA-C-14

Lab ID#: 2001745B-20A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|---------|---------------------|--------------------|
| File Name: | v021225 | Date of Collection: | 1/29/20 5:48:00 PM |
| Dil. Factor: | 6.83 | Date of Analysis: | 2/13/20 07:30 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,3-Butadiene | 0.68 | Not Detected | 1.5 | Not Detected |
| Bromomethane | 3.4 | Not Detected | 13 | Not Detected |
| Freon 11 | 0.68 | Not Detected | 3.8 | Not Detected |
| Ethanol | 3.4 | 1600 E | 6.4 | 2900 E |
| Freon 113 | 0.68 | Not Detected | 5.2 | Not Detected |
| Acetone | 6.8 | 25 | 16 | 60 |
| 2-Propanol | 3.4 | 5.8 | 8.4 | 14 |
| Carbon Disulfide | 3.4 | Not Detected | 11 | Not Detected |
| 3-Chloropropene | 3.4 | Not Detected | 11 | Not Detected |
| Methylene Chloride | 1.4 | Not Detected | 4.7 | Not Detected |
| Hexane | 3.4 | Not Detected | 12 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 3.4 | Not Detected | 10 | Not Detected |
| Tetrahydrofuran | 3.4 | Not Detected | 10 | Not Detected |
| Cyclohexane | 0.68 | Not Detected | 2.4 | Not Detected |
| 2,2,4-Trimethylpentane | 3.4 | Not Detected | 16 | Not Detected |
| Heptane | 3.4 | Not Detected | 14 | Not Detected |
| 1,2-Dichloropropane | 0.68 | Not Detected | 3.2 | Not Detected |
| 1,4-Dioxane | 0.68 | Not Detected | 2.5 | Not Detected |
| Bromodichloromethane | 0.68 | Not Detected | 4.6 | Not Detected |
| cis-1,3-Dichloropropene | 0.68 | Not Detected | 3.1 | Not Detected |
| 4-Methyl-2-pentanone | 0.68 | Not Detected | 2.8 | Not Detected |
| trans-1,3-Dichloropropene | 0.68 | Not Detected | 3.1 | Not Detected |
| 2-Hexanone | 3.4 | Not Detected | 14 | Not Detected |
| Dibromochloromethane | 0.68 | Not Detected | 5.8 | Not Detected |
| Chlorobenzene | 0.68 | Not Detected | 3.1 | Not Detected |
| Styrene | 0.68 | Not Detected | 2.9 | Not Detected |
| Bromoform | 0.68 | Not Detected | 7.1 | Not Detected |
| Cumene | 0.68 | Not Detected | 3.4 | Not Detected |
| Propylbenzene | 0.68 | Not Detected | 3.4 | Not Detected |
| 4-Ethyltoluene | 0.68 | Not Detected | 3.4 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.68 | Not Detected | 3.4 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.68 | Not Detected | 3.4 | Not Detected |
| 1,3-Dichlorobenzene | 0.68 | Not Detected | 4.1 | Not Detected |
| alpha-Chlorotoluene | 0.68 | Not Detected | 3.5 | Not Detected |
| 1,2-Dichlorobenzene | 0.68 | Not Detected | 4.1 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.4 | Not Detected | 25 | Not Detected |
| Hexachlorobutadiene | 3.4 | Not Detected | 36 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|------------------|
|------------|-----------|------------------|

Client Sample ID: IA-C-14

Lab ID#: 2001745B-20A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|---------|--|
| File Name: | v021225 | Date of Collection: 1/29/20 5:48:00 PM |
| Dil. Factor: | 6.83 | Date of Analysis: 2/13/20 07:30 AM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 117 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 92 | 70-130 |

Client Sample ID: IA-C-14

Lab ID#: 2001745B-20B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|------------|--|
| File Name: | v021225sim | Date of Collection: 1/29/20 5:48:00 PM |
| Dil. Factor: | 6.83 | Date of Analysis: 2/13/20 07:30 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.14 | 0.46 | 0.68 | 2.3 |
| Freon 114 | 0.14 | Not Detected | 0.95 | Not Detected |
| Chloromethane | 3.4 | Not Detected | 7.0 | Not Detected |
| Vinyl Chloride | 0.068 | Not Detected | 0.17 | Not Detected |
| Chloroethane | 0.34 | Not Detected | 0.90 | Not Detected |
| 1,1-Dichloroethene | 0.068 | Not Detected | 0.27 | Not Detected |
| trans-1,2-Dichloroethene | 0.68 | Not Detected | 2.7 | Not Detected |
| Methyl tert-butyl ether | 0.68 | Not Detected | 2.5 | Not Detected |
| 1,1-Dichloroethane | 0.14 | Not Detected | 0.55 | Not Detected |
| cis-1,2-Dichloroethene | 0.14 | Not Detected | 0.54 | Not Detected |
| Chloroform | 0.14 | Not Detected | 0.67 | Not Detected |
| 1,1,1-Trichloroethane | 0.14 | Not Detected | 0.74 | Not Detected |
| Carbon Tetrachloride | 0.14 | Not Detected | 0.86 | Not Detected |
| Benzene | 0.34 | 0.36 | 1.1 | 1.2 |
| 1,2-Dichloroethane | 0.14 | Not Detected | 0.55 | Not Detected |
| Trichloroethene | 0.14 | 0.18 | 0.73 | 0.94 |
| Toluene | 0.34 | 1.1 | 1.3 | 4.2 |
| 1,1,2-Trichloroethane | 0.14 | Not Detected | 0.74 | Not Detected |
| Tetrachloroethene | 0.14 | Not Detected | 0.93 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.14 | Not Detected | 1.0 | Not Detected |
| Ethyl Benzene | 0.14 | 9.1 | 0.59 | 39 |
| m,p-Xylene | 0.27 | 44 | 1.2 | 190 |
| o-Xylene | 0.14 | 15 | 0.59 | 67 |
| 1,1,2,2-Tetrachloroethane | 0.14 | Not Detected | 0.94 | Not Detected |
| 1,4-Dichlorobenzene | 0.14 | Not Detected | 0.82 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 115 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 90 | 70-130 |



Air Toxics

Client Sample ID: OA-01

Lab ID#: 2001745B-21A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|---------|---------------------|--------------------|
| File Name: | v021216 | Date of Collection: | 1/29/20 5:58:00 PM |
| Dil. Factor: | 2.01 | Date of Analysis: | 2/12/20 08:23 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,3-Butadiene | 0.20 | Not Detected | 0.44 | Not Detected |
| Bromomethane | 1.0 | Not Detected | 3.9 | Not Detected |
| Freon 11 | 0.20 | 0.21 | 1.1 | 1.2 |
| Ethanol | 1.0 | 2.1 | 1.9 | 3.9 |
| Freon 113 | 0.20 | Not Detected | 1.5 | Not Detected |
| Acetone | 2.0 | 3.9 | 4.8 | 9.3 |
| 2-Propanol | 1.0 | Not Detected | 2.5 | Not Detected |
| Carbon Disulfide | 1.0 | Not Detected | 3.1 | Not Detected |
| 3-Chloropropene | 1.0 | Not Detected | 3.1 | Not Detected |
| Methylene Chloride | 0.40 | Not Detected | 1.4 | Not Detected |
| Hexane | 1.0 | Not Detected | 3.5 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | Not Detected | 3.0 | Not Detected |
| Tetrahydrofuran | 1.0 | Not Detected | 3.0 | Not Detected |
| Cyclohexane | 0.20 | Not Detected | 0.69 | Not Detected |
| 2,2,4-Trimethylpentane | 1.0 | Not Detected | 4.7 | Not Detected |
| Heptane | 1.0 | Not Detected | 4.1 | Not Detected |
| 1,2-Dichloropropane | 0.20 | Not Detected | 0.93 | Not Detected |
| 1,4-Dioxane | 0.20 | Not Detected | 0.72 | Not Detected |
| Bromodichloromethane | 0.20 | Not Detected | 1.3 | Not Detected |
| cis-1,3-Dichloropropene | 0.20 | Not Detected | 0.91 | Not Detected |
| 4-Methyl-2-pentanone | 0.20 | Not Detected | 0.82 | Not Detected |
| trans-1,3-Dichloropropene | 0.20 | Not Detected | 0.91 | Not Detected |
| 2-Hexanone | 1.0 | Not Detected | 4.1 | Not Detected |
| Dibromochloromethane | 0.20 | Not Detected | 1.7 | Not Detected |
| Chlorobenzene | 0.20 | Not Detected | 0.92 | Not Detected |
| Styrene | 0.20 | Not Detected | 0.86 | Not Detected |
| Bromoform | 0.20 | Not Detected | 2.1 | Not Detected |
| Cumene | 0.20 | Not Detected | 0.99 | Not Detected |
| Propylbenzene | 0.20 | Not Detected | 0.99 | Not Detected |
| 4-Ethyltoluene | 0.20 | Not Detected | 0.99 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.20 | Not Detected | 0.99 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.20 | Not Detected | 0.99 | Not Detected |
| 1,3-Dichlorobenzene | 0.20 | Not Detected | 1.2 | Not Detected |
| alpha-Chlorotoluene | 0.20 | Not Detected | 1.0 | Not Detected |
| 1,2-Dichlorobenzene | 0.20 | Not Detected | 1.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected | 7.4 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected | 11 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 124 | 70-130 |

Client Sample ID: OA-01

Lab ID#: 2001745B-21A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|---------|--|
| File Name: | v021216 | Date of Collection: 1/29/20 5:58:00 PM |
| Dil. Factor: | 2.01 | Date of Analysis: 2/12/20 08:23 PM |

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 105 | 70-130 |
| 4-Bromofluorobenzene | 90 | 70-130 |

Client Sample ID: OA-01

Lab ID#: 2001745B-21B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|------------|---------------------|--------------------|
| File Name: | v021216sim | Date of Collection: | 1/29/20 5:58:00 PM |
| Dil. Factor: | 2.01 | Date of Analysis: | 2/12/20 08:23 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.040 | 0.47 | 0.20 | 2.3 |
| Freon 114 | 0.040 | Not Detected | 0.28 | Not Detected |
| Chloromethane | 1.0 | Not Detected | 2.1 | Not Detected |
| Vinyl Chloride | 0.020 | Not Detected | 0.051 | Not Detected |
| Chloroethane | 0.10 | Not Detected | 0.26 | Not Detected |
| 1,1-Dichloroethene | 0.020 | Not Detected | 0.080 | Not Detected |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |
| Methyl tert-butyl ether | 0.20 | Not Detected | 0.72 | Not Detected |
| 1,1-Dichloroethane | 0.040 | Not Detected | 0.16 | Not Detected |
| cis-1,2-Dichloroethene | 0.040 | Not Detected | 0.16 | Not Detected |
| Chloroform | 0.040 | Not Detected | 0.20 | Not Detected |
| 1,1,1-Trichloroethane | 0.040 | Not Detected | 0.22 | Not Detected |
| Carbon Tetrachloride | 0.040 | 0.061 | 0.25 | 0.38 |
| Benzene | 0.10 | 0.20 | 0.32 | 0.66 |
| 1,2-Dichloroethane | 0.040 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.040 | Not Detected | 0.22 | Not Detected |
| Toluene | 0.10 | 0.33 | 0.38 | 1.2 |
| 1,1,2-Trichloroethane | 0.040 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.040 | Not Detected | 0.27 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.040 | Not Detected | 0.31 | Not Detected |
| Ethyl Benzene | 0.040 | 0.052 | 0.17 | 0.23 |
| m,p-Xylene | 0.080 | 0.14 | 0.35 | 0.61 |
| o-Xylene | 0.040 | 0.057 | 0.17 | 0.25 |
| 1,1,2,2-Tetrachloroethane | 0.040 | Not Detected | 0.28 | Not Detected |
| 1,4-Dichlorobenzene | 0.040 | Not Detected | 0.24 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 119 | 70-130 |
| Toluene-d8 | 105 | 70-130 |
| 4-Bromofluorobenzene | 89 | 70-130 |

Client Sample ID: IA-C-08-D

Lab ID#: 2001745B-22A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|---------|---------------------|--------------------|
| File Name: | v021217 | Date of Collection: | 1/29/20 5:07:00 PM |
| Dil. Factor: | 5.25 | Date of Analysis: | 2/12/20 09:02 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,3-Butadiene | 0.52 | Not Detected | 1.2 | Not Detected |
| Bromomethane | 2.6 | Not Detected | 10 | Not Detected |
| Freon 11 | 0.52 | Not Detected | 2.9 | Not Detected |
| Ethanol | 2.6 | 520 E | 4.9 | 970 E |
| Freon 113 | 0.52 | Not Detected | 4.0 | Not Detected |
| Acetone | 5.2 | 41 | 12 | 98 |
| 2-Propanol | 2.6 | 4.8 | 6.4 | 12 |
| Carbon Disulfide | 2.6 | Not Detected | 8.2 | Not Detected |
| 3-Chloropropene | 2.6 | Not Detected | 8.2 | Not Detected |
| Methylene Chloride | 1.0 | Not Detected | 3.6 | Not Detected |
| Hexane | 2.6 | Not Detected | 9.2 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2.6 | Not Detected | 7.7 | Not Detected |
| Tetrahydrofuran | 2.6 | Not Detected | 7.7 | Not Detected |
| Cyclohexane | 0.52 | Not Detected | 1.8 | Not Detected |
| 2,2,4-Trimethylpentane | 2.6 | Not Detected | 12 | Not Detected |
| Heptane | 2.6 | Not Detected | 11 | Not Detected |
| 1,2-Dichloropropane | 0.52 | Not Detected | 2.4 | Not Detected |
| 1,4-Dioxane | 0.52 | Not Detected | 1.9 | Not Detected |
| Bromodichloromethane | 0.52 | Not Detected | 3.5 | Not Detected |
| cis-1,3-Dichloropropene | 0.52 | Not Detected | 2.4 | Not Detected |
| 4-Methyl-2-pentanone | 0.52 | Not Detected | 2.2 | Not Detected |
| trans-1,3-Dichloropropene | 0.52 | Not Detected | 2.4 | Not Detected |
| 2-Hexanone | 2.6 | Not Detected | 11 | Not Detected |
| Dibromochloromethane | 0.52 | Not Detected | 4.5 | Not Detected |
| Chlorobenzene | 0.52 | Not Detected | 2.4 | Not Detected |
| Styrene | 0.52 | Not Detected | 2.2 | Not Detected |
| Bromoform | 0.52 | Not Detected | 5.4 | Not Detected |
| Cumene | 0.52 | Not Detected | 2.6 | Not Detected |
| Propylbenzene | 0.52 | Not Detected | 2.6 | Not Detected |
| 4-Ethyltoluene | 0.52 | Not Detected | 2.6 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.52 | Not Detected | 2.6 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.52 | Not Detected | 2.6 | Not Detected |
| 1,3-Dichlorobenzene | 0.52 | Not Detected | 3.2 | Not Detected |
| alpha-Chlorotoluene | 0.52 | Not Detected | 2.7 | Not Detected |
| 1,2-Dichlorobenzene | 0.52 | Not Detected | 3.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.6 | Not Detected | 19 | Not Detected |
| Hexachlorobutadiene | 2.6 | Not Detected | 28 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-08-D

Lab ID#: 2001745B-22A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|---------|--|
| File Name: | v021217 | Date of Collection: 1/29/20 5:07:00 PM |
| Dil. Factor: | 5.25 | Date of Analysis: 2/12/20 09:02 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 118 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 91 | 70-130 |

Client Sample ID: IA-C-08-D

Lab ID#: 2001745B-22B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|------------|---------------------|--------------------|
| File Name: | v021217sim | Date of Collection: | 1/29/20 5:07:00 PM |
| Dil. Factor: | 5.25 | Date of Analysis: | 2/12/20 09:02 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.10 | 0.46 | 0.52 | 2.3 |
| Freon 114 | 0.10 | Not Detected | 0.73 | Not Detected |
| Chloromethane | 2.6 | Not Detected | 5.4 | Not Detected |
| Vinyl Chloride | 0.052 | Not Detected | 0.13 | Not Detected |
| Chloroethane | 0.26 | Not Detected | 0.69 | Not Detected |
| 1,1-Dichloroethene | 0.052 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.52 | Not Detected | 2.1 | Not Detected |
| Methyl tert-butyl ether | 0.52 | Not Detected | 1.9 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.42 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.42 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.51 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | 0.23 | 0.57 | 1.2 |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.66 | Not Detected |
| Benzene | 0.26 | 0.31 | 0.84 | 1.0 |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.42 | Not Detected |
| Trichloroethene | 0.10 | 0.17 | 0.56 | 0.91 |
| Toluene | 0.26 | 0.92 | 0.99 | 3.5 |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.57 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.71 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.81 | Not Detected |
| Ethyl Benzene | 0.10 | 10 | 0.46 | 45 |
| m,p-Xylene | 0.21 | 49 | 0.91 | 210 |
| o-Xylene | 0.10 | 17 | 0.46 | 73 |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.72 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.63 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 116 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 89 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745B-23A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 22021207 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 12:40 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.10 | Not Detected | 0.22 | Not Detected |
| Bromomethane | 0.50 | Not Detected | 1.9 | Not Detected |
| Freon 11 | 0.10 | Not Detected | 0.56 | Not Detected |
| Ethanol | 0.50 | Not Detected | 0.94 | Not Detected |
| Freon 113 | 0.10 | Not Detected | 0.77 | Not Detected |
| Acetone | 1.0 | Not Detected | 2.4 | Not Detected |
| 2-Propanol | 0.50 | Not Detected | 1.2 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 0.50 | Not Detected | 1.6 | Not Detected |
| Methylene Chloride | 0.20 | Not Detected | 0.69 | Not Detected |
| Hexane | 0.50 | Not Detected | 1.8 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Cyclohexane | 0.10 | Not Detected | 0.34 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Heptane | 0.50 | Not Detected | 2.0 | Not Detected |
| 1,2-Dichloropropane | 0.10 | Not Detected | 0.46 | Not Detected |
| 1,4-Dioxane | 0.10 | Not Detected | 0.36 | Not Detected |
| Bromodichloromethane | 0.10 | Not Detected | 0.67 | Not Detected |
| cis-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 4-Methyl-2-pentanone | 0.10 | Not Detected | 0.41 | Not Detected |
| trans-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 2-Hexanone | 0.50 | Not Detected | 2.0 | Not Detected |
| Dibromochloromethane | 0.10 | Not Detected | 0.85 | Not Detected |
| Chlorobenzene | 0.10 | Not Detected | 0.46 | Not Detected |
| Styrene | 0.10 | Not Detected | 0.42 | Not Detected |
| Bromoform | 0.10 | Not Detected | 1.0 | Not Detected |
| Cumene | 0.10 | Not Detected | 0.49 | Not Detected |
| Propylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 4-Ethyltoluene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| alpha-Chlorotoluene | 0.10 | Not Detected | 0.52 | Not Detected |
| 1,2-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.50 | Not Detected | 3.7 | Not Detected |
| Hexachlorobutadiene | 0.50 | Not Detected | 5.3 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 125 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745B-23A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 22021207

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 2/12/20 12:40 PM

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|------------------|
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745B-23B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|-------------|------------------------------------|
| File Name: | 22021207sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 12:40 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.020 | Not Detected | 0.099 | Not Detected |
| Freon 114 | 0.020 | Not Detected | 0.14 | Not Detected |
| Chloromethane | 0.50 | Not Detected | 1.0 | Not Detected |
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| Chloroethane | 0.050 | Not Detected | 0.13 | Not Detected |
| 1,1-Dichloroethene | 0.010 | Not Detected | 0.040 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Methyl tert-butyl ether | 0.10 | Not Detected | 0.36 | Not Detected |
| 1,1-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Chloroform | 0.020 | Not Detected | 0.098 | Not Detected |
| 1,1,1-Trichloroethane | 0.020 | Not Detected | 0.11 | Not Detected |
| Carbon Tetrachloride | 0.020 | Not Detected | 0.12 | Not Detected |
| Benzene | 0.050 | Not Detected | 0.16 | Not Detected |
| 1,2-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Toluene | 0.050 | Not Detected | 0.19 | Not Detected |
| 1,1,2-Trichloroethane | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.020 | Not Detected | 0.15 | Not Detected |
| Ethyl Benzene | 0.020 | Not Detected | 0.087 | Not Detected |
| m,p-Xylene | 0.040 | Not Detected | 0.17 | Not Detected |
| o-Xylene | 0.020 | Not Detected | 0.087 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.020 | Not Detected | 0.14 | Not Detected |
| 1,4-Dichlorobenzene | 0.020 | Not Detected | 0.12 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 117 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745B-23C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021206 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:36 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.10 | Not Detected | 0.22 | Not Detected |
| Bromomethane | 0.50 | Not Detected | 1.9 | Not Detected |
| Freon 11 | 0.10 | Not Detected | 0.56 | Not Detected |
| Ethanol | 0.50 | Not Detected | 0.94 | Not Detected |
| Freon 113 | 0.10 | Not Detected | 0.77 | Not Detected |
| Acetone | 1.0 | Not Detected | 2.4 | Not Detected |
| 2-Propanol | 0.50 | Not Detected | 1.2 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 0.50 | Not Detected | 1.6 | Not Detected |
| Methylene Chloride | 0.20 | Not Detected | 0.69 | Not Detected |
| Hexane | 0.50 | Not Detected | 1.8 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Cyclohexane | 0.10 | Not Detected | 0.34 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Heptane | 0.50 | Not Detected | 2.0 | Not Detected |
| 1,2-Dichloropropane | 0.10 | Not Detected | 0.46 | Not Detected |
| 1,4-Dioxane | 0.10 | Not Detected | 0.36 | Not Detected |
| Bromodichloromethane | 0.10 | Not Detected | 0.67 | Not Detected |
| cis-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 4-Methyl-2-pentanone | 0.10 | Not Detected | 0.41 | Not Detected |
| trans-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 2-Hexanone | 0.50 | Not Detected | 2.0 | Not Detected |
| Dibromochloromethane | 0.10 | Not Detected | 0.85 | Not Detected |
| Chlorobenzene | 0.10 | Not Detected | 0.46 | Not Detected |
| Styrene | 0.10 | Not Detected | 0.42 | Not Detected |
| Bromoform | 0.10 | Not Detected | 1.0 | Not Detected |
| Cumene | 0.10 | Not Detected | 0.49 | Not Detected |
| Propylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 4-Ethyltoluene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| alpha-Chlorotoluene | 0.10 | Not Detected | 0.52 | Not Detected |
| 1,2-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.50 | Not Detected | 3.7 | Not Detected |
| Hexachlorobutadiene | 0.50 | Not Detected | 5.3 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745B-23C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021206 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:36 AM |

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745B-23D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|-------------|------------------------------------|
| File Name: | 20021206sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:36 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.020 | Not Detected | 0.099 | Not Detected |
| Freon 114 | 0.020 | Not Detected | 0.14 | Not Detected |
| Chloromethane | 0.50 | Not Detected | 1.0 | Not Detected |
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| Chloroethane | 0.050 | Not Detected | 0.13 | Not Detected |
| 1,1-Dichloroethene | 0.010 | Not Detected | 0.040 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Methyl tert-butyl ether | 0.10 | Not Detected | 0.36 | Not Detected |
| 1,1-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Chloroform | 0.020 | Not Detected | 0.098 | Not Detected |
| 1,1,1-Trichloroethane | 0.020 | Not Detected | 0.11 | Not Detected |
| Carbon Tetrachloride | 0.020 | Not Detected | 0.12 | Not Detected |
| Benzene | 0.050 | Not Detected | 0.16 | Not Detected |
| 1,2-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Toluene | 0.050 | Not Detected | 0.19 | Not Detected |
| 1,1,2-Trichloroethane | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.020 | Not Detected | 0.15 | Not Detected |
| Ethyl Benzene | 0.020 | Not Detected | 0.087 | Not Detected |
| m,p-Xylene | 0.040 | Not Detected | 0.17 | Not Detected |
| o-Xylene | 0.020 | Not Detected | 0.087 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.020 | Not Detected | 0.14 | Not Detected |
| 1,4-Dichlorobenzene | 0.020 | Not Detected | 0.12 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745B-23E

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | v021206 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 01:28 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.10 | Not Detected | 0.22 | Not Detected |
| Bromomethane | 0.50 | Not Detected | 1.9 | Not Detected |
| Freon 11 | 0.10 | Not Detected | 0.56 | Not Detected |
| Ethanol | 0.50 | Not Detected | 0.94 | Not Detected |
| Freon 113 | 0.10 | Not Detected | 0.77 | Not Detected |
| Acetone | 1.0 | Not Detected | 2.4 | Not Detected |
| 2-Propanol | 0.50 | Not Detected | 1.2 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 0.50 | Not Detected | 1.6 | Not Detected |
| Methylene Chloride | 0.20 | Not Detected | 0.69 | Not Detected |
| Hexane | 0.50 | Not Detected | 1.8 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Cyclohexane | 0.10 | Not Detected | 0.34 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Heptane | 0.50 | Not Detected | 2.0 | Not Detected |
| 1,2-Dichloropropane | 0.10 | Not Detected | 0.46 | Not Detected |
| 1,4-Dioxane | 0.10 | Not Detected | 0.36 | Not Detected |
| Bromodichloromethane | 0.10 | Not Detected | 0.67 | Not Detected |
| cis-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 4-Methyl-2-pentanone | 0.10 | Not Detected | 0.41 | Not Detected |
| trans-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 2-Hexanone | 0.50 | Not Detected | 2.0 | Not Detected |
| Dibromochloromethane | 0.10 | Not Detected | 0.85 | Not Detected |
| Chlorobenzene | 0.10 | Not Detected | 0.46 | Not Detected |
| Styrene | 0.10 | Not Detected | 0.42 | Not Detected |
| Bromoform | 0.10 | Not Detected | 1.0 | Not Detected |
| Cumene | 0.10 | Not Detected | 0.49 | Not Detected |
| Propylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 4-Ethyltoluene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| alpha-Chlorotoluene | 0.10 | Not Detected | 0.52 | Not Detected |
| 1,2-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.50 | Not Detected | 3.7 | Not Detected |
| Hexachlorobutadiene | 0.50 | Not Detected | 5.3 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 127 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745B-23E

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | v021206 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 01:28 PM |

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 93 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745B-23F

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|-------------|------------------------------------|
| File Name: | v021206sima | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 01:28 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.020 | Not Detected | 0.099 | Not Detected |
| Freon 114 | 0.020 | Not Detected | 0.14 | Not Detected |
| Chloromethane | 0.50 | Not Detected | 1.0 | Not Detected |
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| Chloroethane | 0.050 | Not Detected | 0.13 | Not Detected |
| 1,1-Dichloroethene | 0.010 | Not Detected | 0.040 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Methyl tert-butyl ether | 0.10 | Not Detected | 0.36 | Not Detected |
| 1,1-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Chloroform | 0.020 | Not Detected | 0.098 | Not Detected |
| 1,1,1-Trichloroethane | 0.020 | Not Detected | 0.11 | Not Detected |
| Carbon Tetrachloride | 0.020 | Not Detected | 0.12 | Not Detected |
| Benzene | 0.050 | Not Detected | 0.16 | Not Detected |
| 1,2-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Toluene | 0.050 | Not Detected | 0.19 | Not Detected |
| 1,1,2-Trichloroethane | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.020 | Not Detected | 0.15 | Not Detected |
| Ethyl Benzene | 0.020 | Not Detected | 0.087 | Not Detected |
| m,p-Xylene | 0.040 | Not Detected | 0.17 | Not Detected |
| o-Xylene | 0.020 | Not Detected | 0.087 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.020 | Not Detected | 0.14 | Not Detected |
| 1,4-Dichlorobenzene | 0.020 | Not Detected | 0.12 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 121 | 70-130 |
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 90 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745B-24A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|---------------------|-----------------|---|
| File Name: | 22021203 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 09:51 AM |

| Compound | %Recovery |
|----------------------------------|-----------|
| 1,3-Butadiene | 113 |
| Bromomethane | 105 |
| Freon 11 | 102 |
| Ethanol | 76 |
| Freon 113 | 100 |
| Acetone | 91 |
| 2-Propanol | 82 |
| Carbon Disulfide | 107 |
| 3-Chloropropene | 98 |
| Methylene Chloride | 96 |
| Hexane | 104 |
| 2-Butanone (Methyl Ethyl Ketone) | 96 |
| Tetrahydrofuran | 101 |
| Cyclohexane | 105 |
| 2,2,4-Trimethylpentane | 108 |
| Heptane | 127 |
| 1,2-Dichloropropane | 117 |
| 1,4-Dioxane | 109 |
| Bromodichloromethane | 112 |
| cis-1,3-Dichloropropene | 111 |
| 4-Methyl-2-pentanone | 120 |
| trans-1,3-Dichloropropene | 110 |
| 2-Hexanone | 98 |
| Dibromochloromethane | 113 |
| Chlorobenzene | 112 |
| Styrene | 126 |
| Bromoform | 122 |
| Cumene | 126 |
| Propylbenzene | 129 |
| 4-Ethyltoluene | 120 |
| 1,3,5-Trimethylbenzene | 128 |
| 1,2,4-Trimethylbenzene | 128 |
| 1,3-Dichlorobenzene | 116 |
| alpha-Chlorotoluene | 108 |
| 1,2-Dichlorobenzene | 109 |
| 1,2,4-Trichlorobenzene | 118 |
| Hexachlorobutadiene | 126 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745B-24A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 22021203

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 2/12/20 09:51 AM

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 114 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745B-24B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|-------------|------------------------------------|
| File Name: | 22021203sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 09:51 AM |

| Compound | %Recovery |
|---------------------------|-----------|
| Freon 12 | 94 |
| Freon 114 | 87 |
| Chloromethane | 100 |
| Vinyl Chloride | 97 |
| Chloroethane | 95 |
| 1,1-Dichloroethene | 83 |
| trans-1,2-Dichloroethene | 90 |
| Methyl tert-butyl ether | 93 |
| 1,1-Dichloroethane | 92 |
| cis-1,2-Dichloroethene | 86 |
| Chloroform | 91 |
| 1,1,1-Trichloroethane | 92 |
| Carbon Tetrachloride | 107 |
| Benzene | 100 |
| 1,2-Dichloroethane | 109 |
| Trichloroethene | 104 |
| Toluene | 98 |
| 1,1,2-Trichloroethane | 103 |
| Tetrachloroethene | 110 |
| 1,2-Dibromoethane (EDB) | 101 |
| Ethyl Benzene | 106 |
| m,p-Xylene | 106 |
| o-Xylene | 108 |
| 1,1,2,2-Tetrachloroethane | 108 |
| 1,4-Dichlorobenzene | 103 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 110 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745B-24C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021202 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 08:57 AM |

| Compound | %Recovery |
|----------------------------------|-----------|
| 1,3-Butadiene | 99 |
| Bromomethane | 115 |
| Freon 11 | 104 |
| Ethanol | 95 |
| Freon 113 | 96 |
| Acetone | 90 |
| 2-Propanol | 90 |
| Carbon Disulfide | 100 |
| 3-Chloropropene | 109 |
| Methylene Chloride | 87 |
| Hexane | 103 |
| 2-Butanone (Methyl Ethyl Ketone) | 105 |
| Tetrahydrofuran | 100 |
| Cyclohexane | 116 |
| 2,2,4-Trimethylpentane | 93 |
| Heptane | 106 |
| 1,2-Dichloropropane | 92 |
| 1,4-Dioxane | 107 |
| Bromodichloromethane | 97 |
| cis-1,3-Dichloropropene | 96 |
| 4-Methyl-2-pentanone | 96 |
| trans-1,3-Dichloropropene | 95 |
| 2-Hexanone | 102 |
| Dibromochloromethane | 101 |
| Chlorobenzene | 102 |
| Styrene | 114 |
| Bromoform | 101 |
| Cumene | 112 |
| Propylbenzene | 109 |
| 4-Ethyltoluene | 116 |
| 1,3,5-Trimethylbenzene | 112 |
| 1,2,4-Trimethylbenzene | 113 |
| 1,3-Dichlorobenzene | 99 |
| alpha-Chlorotoluene | 102 |
| 1,2-Dichlorobenzene | 102 |
| 1,2,4-Trichlorobenzene | 92 |
| Hexachlorobutadiene | 102 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745B-24C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021202 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 08:57 AM |

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745B-24D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|-------------|------------------------------------|
| File Name: | 20021202sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 08:57 AM |

| Compound | %Recovery |
|---------------------------|-----------|
| Freon 12 | 93 |
| Freon 114 | 95 |
| Chloromethane | 76 |
| Vinyl Chloride | 93 |
| Chloroethane | 94 |
| 1,1-Dichloroethene | 93 |
| trans-1,2-Dichloroethene | 102 |
| Methyl tert-butyl ether | 116 |
| 1,1-Dichloroethane | 96 |
| cis-1,2-Dichloroethene | 104 |
| Chloroform | 102 |
| 1,1,1-Trichloroethane | 97 |
| Carbon Tetrachloride | 107 |
| Benzene | 97 |
| 1,2-Dichloroethane | 92 |
| Trichloroethene | 95 |
| Toluene | 105 |
| 1,1,2-Trichloroethane | 92 |
| Tetrachloroethene | 100 |
| 1,2-Dibromoethane (EDB) | 97 |
| Ethyl Benzene | 114 |
| m,p-Xylene | 118 |
| o-Xylene | 116 |
| 1,1,2,2-Tetrachloroethane | 85 |
| 1,4-Dichlorobenzene | 101 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 92 | 70-130 |
| Toluene-d8 | 105 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745B-24E

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | v021202 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 10:46 AM |

| Compound | %Recovery |
|----------------------------------|-----------|
| 1,3-Butadiene | 117 |
| Bromomethane | 111 |
| Freon 11 | 107 |
| Ethanol | 114 |
| Freon 113 | 86 |
| Acetone | 114 |
| 2-Propanol | 120 |
| Carbon Disulfide | 116 |
| 3-Chloropropene | 112 |
| Methylene Chloride | 105 |
| Hexane | 117 |
| 2-Butanone (Methyl Ethyl Ketone) | 112 |
| Tetrahydrofuran | 129 |
| Cyclohexane | 107 |
| 2,2,4-Trimethylpentane | 123 |
| Heptane | 135 Q |
| 1,2-Dichloropropane | 129 |
| 1,4-Dioxane | 114 |
| Bromodichloromethane | 113 |
| cis-1,3-Dichloropropene | 113 |
| 4-Methyl-2-pentanone | 134 Q |
| trans-1,3-Dichloropropene | 109 |
| 2-Hexanone | 117 |
| Dibromochloromethane | 102 |
| Chlorobenzene | 102 |
| Styrene | 97 |
| Bromoform | 96 |
| Cumene | 96 |
| Propylbenzene | 108 |
| 4-Ethyltoluene | 114 |
| 1,3,5-Trimethylbenzene | 112 |
| 1,2,4-Trimethylbenzene | 106 |
| 1,3-Dichlorobenzene | 94 |
| alpha-Chlorotoluene | 102 |
| 1,2-Dichlorobenzene | 96 |
| 1,2,4-Trichlorobenzene | 72 |
| Hexachlorobutadiene | 75 |

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: CCV

Lab ID#: 2001745B-24E

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | |
|--------------|---------|
| File Name: | v021202 |
| Dil. Factor: | 1.00 |

| |
|------------------------------------|
| Date of Collection: NA |
| Date of Analysis: 2/12/20 10:46 AM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 |
| Toluene-d8 | 109 | 70-130 |
| 4-Bromofluorobenzene | 84 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745B-24F

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|---------------------|-------------------|---|
| File Name: | v021202sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 10:46 AM |

| Compound | %Recovery |
|---------------------------|-----------|
| Freon 12 | 103 |
| Freon 114 | 91 |
| Chloromethane | 123 |
| Vinyl Chloride | 110 |
| Chloroethane | 120 |
| 1,1-Dichloroethene | 93 |
| trans-1,2-Dichloroethene | 101 |
| Methyl tert-butyl ether | 108 |
| 1,1-Dichloroethane | 119 |
| cis-1,2-Dichloroethene | 100 |
| Chloroform | 109 |
| 1,1,1-Trichloroethane | 101 |
| Carbon Tetrachloride | 112 |
| Benzene | 109 |
| 1,2-Dichloroethane | 120 |
| Trichloroethene | 94 |
| Toluene | 99 |
| 1,1,2-Trichloroethane | 106 |
| Tetrachloroethene | 88 |
| 1,2-Dibromoethane (EDB) | 99 |
| Ethyl Benzene | 94 |
| m,p-Xylene | 85 |
| o-Xylene | 87 |
| 1,1,2,2-Tetrachloroethane | 111 |
| 1,4-Dichlorobenzene | 81 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 117 | 70-130 |
| Toluene-d8 | 109 | 70-130 |
| 4-Bromofluorobenzene | 82 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745B-25A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 22021204 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 10:44 AM |

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| 1,3-Butadiene | 119 | 70-130 |
| Bromomethane | 113 | 70-130 |
| Freon 11 | 107 | 70-130 |
| Ethanol | 99 | 70-130 |
| Freon 113 | 105 | 70-130 |
| Acetone | 99 | 70-130 |
| 2-Propanol | 96 | 70-130 |
| Carbon Disulfide | 114 | 70-130 |
| 3-Chloropropene | 111 | 70-130 |
| Methylene Chloride | 101 | 70-130 |
| Hexane | 115 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 107 | 70-130 |
| Tetrahydrofuran | 113 | 70-130 |
| Cyclohexane | 116 | 70-130 |
| 2,2,4-Trimethylpentane | 119 | 70-130 |
| Heptane | 133 Q | 70-130 |
| 1,2-Dichloropropane | 125 | 70-130 |
| 1,4-Dioxane | 122 | 70-130 |
| Bromodichloromethane | 119 | 70-130 |
| cis-1,3-Dichloropropene | 126 | 70-130 |
| 4-Methyl-2-pentanone | 134 Q | 70-130 |
| trans-1,3-Dichloropropene | 114 | 70-130 |
| 2-Hexanone | 113 | 70-130 |
| Dibromochloromethane | 119 | 70-130 |
| Chlorobenzene | 112 | 70-130 |
| Styrene | 128 | 70-130 |
| Bromoform | 130 | 70-130 |
| Cumene | 127 | 70-130 |
| Propylbenzene | 131 Q | 70-130 |
| 4-Ethyltoluene | 126 | 70-130 |
| 1,3,5-Trimethylbenzene | 128 | 70-130 |
| 1,2,4-Trimethylbenzene | 132 Q | 70-130 |
| 1,3-Dichlorobenzene | 116 | 70-130 |
| alpha-Chlorotoluene | 124 | 70-130 |
| 1,2-Dichlorobenzene | 109 | 70-130 |
| 1,2,4-Trichlorobenzene | 117 | 70-130 |
| Hexachlorobutadiene | 119 | 70-130 |

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: LCS

Lab ID#: 2001745B-25A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 22021204

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 2/12/20 10:44 AM

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 118 | 70-130 |
| Toluene-d8 | 114 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2001745B-25AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 22021205 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:26 AM |

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| 1,3-Butadiene | 117 | 70-130 |
| Bromomethane | 111 | 70-130 |
| Freon 11 | 106 | 70-130 |
| Ethanol | 103 | 70-130 |
| Freon 113 | 103 | 70-130 |
| Acetone | 100 | 70-130 |
| 2-Propanol | 97 | 70-130 |
| Carbon Disulfide | 113 | 70-130 |
| 3-Chloropropene | 112 | 70-130 |
| Methylene Chloride | 101 | 70-130 |
| Hexane | 114 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 108 | 70-130 |
| Tetrahydrofuran | 113 | 70-130 |
| Cyclohexane | 115 | 70-130 |
| 2,2,4-Trimethylpentane | 118 | 70-130 |
| Heptane | 131 Q | 70-130 |
| 1,2-Dichloropropane | 122 | 70-130 |
| 1,4-Dioxane | 119 | 70-130 |
| Bromodichloromethane | 117 | 70-130 |
| cis-1,3-Dichloropropene | 123 | 70-130 |
| 4-Methyl-2-pentanone | 133 Q | 70-130 |
| trans-1,3-Dichloropropene | 115 | 70-130 |
| 2-Hexanone | 116 | 70-130 |
| Dibromochloromethane | 118 | 70-130 |
| Chlorobenzene | 112 | 70-130 |
| Styrene | 127 | 70-130 |
| Bromoform | 126 | 70-130 |
| Cumene | 126 | 70-130 |
| Propylbenzene | 131 Q | 70-130 |
| 4-Ethyltoluene | 125 | 70-130 |
| 1,3,5-Trimethylbenzene | 127 | 70-130 |
| 1,2,4-Trimethylbenzene | 131 Q | 70-130 |
| 1,3-Dichlorobenzene | 116 | 70-130 |
| alpha-Chlorotoluene | 129 | 70-130 |
| 1,2-Dichlorobenzene | 108 | 70-130 |
| 1,2,4-Trichlorobenzene | 113 | 70-130 |
| Hexachlorobutadiene | 119 | 70-130 |

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2001745B-25AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 22021205 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:26 AM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 |
| Toluene-d8 | 112 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745B-25B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 22021204sim
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 2/12/20 10:44 AM

| Compound | %Recovery | Method Limits |
|---------------------------|-----------|---------------|
| Freon 12 | 102 | 70-130 |
| Freon 114 | 94 | 70-130 |
| Chloromethane | 109 | 70-130 |
| Vinyl Chloride | 108 | 70-130 |
| Chloroethane | 105 | 70-130 |
| 1,1-Dichloroethene | 89 | 70-130 |
| trans-1,2-Dichloroethene | 103 | 70-130 |
| Methyl tert-butyl ether | 95 | 70-130 |
| 1,1-Dichloroethane | 95 | 70-130 |
| cis-1,2-Dichloroethene | 83 | 70-130 |
| Chloroform | 96 | 70-130 |
| 1,1,1-Trichloroethane | 99 | 70-130 |
| Carbon Tetrachloride | 124 | 60-140 |
| Benzene | 104 | 70-130 |
| 1,2-Dichloroethane | 112 | 70-130 |
| Trichloroethene | 108 | 70-130 |
| Toluene | 101 | 70-130 |
| 1,1,2-Trichloroethane | 108 | 70-130 |
| Tetrachloroethene | 110 | 70-130 |
| 1,2-Dibromoethane (EDB) | 104 | 70-130 |
| Ethyl Benzene | 110 | 70-130 |
| m,p-Xylene | 107 | 70-130 |
| o-Xylene | 112 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 109 | 70-130 |
| 1,4-Dichlorobenzene | 106 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 107 | 70-130 |
| Toluene-d8 | 110 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2001745B-25BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 22021205sim
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 2/12/20 11:26 AM

| Compound | %Recovery | Method Limits |
|---------------------------|-----------|---------------|
| Freon 12 | 101 | 70-130 |
| Freon 114 | 94 | 70-130 |
| Chloromethane | 112 | 70-130 |
| Vinyl Chloride | 108 | 70-130 |
| Chloroethane | 104 | 70-130 |
| 1,1-Dichloroethene | 89 | 70-130 |
| trans-1,2-Dichloroethene | 104 | 70-130 |
| Methyl tert-butyl ether | 97 | 70-130 |
| 1,1-Dichloroethane | 95 | 70-130 |
| cis-1,2-Dichloroethene | 84 | 70-130 |
| Chloroform | 95 | 70-130 |
| 1,1,1-Trichloroethane | 98 | 70-130 |
| Carbon Tetrachloride | 122 | 60-140 |
| Benzene | 102 | 70-130 |
| 1,2-Dichloroethane | 108 | 70-130 |
| Trichloroethene | 106 | 70-130 |
| Toluene | 100 | 70-130 |
| 1,1,2-Trichloroethane | 106 | 70-130 |
| Tetrachloroethene | 108 | 70-130 |
| 1,2-Dibromoethane (EDB) | 103 | 70-130 |
| Ethyl Benzene | 111 | 70-130 |
| m,p-Xylene | 108 | 70-130 |
| o-Xylene | 112 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 109 | 70-130 |
| 1,4-Dichlorobenzene | 105 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 110 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745B-25C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021203 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 09:37 AM |

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| 1,3-Butadiene | 102 | 70-130 |
| Bromomethane | 109 | 70-130 |
| Freon 11 | 106 | 70-130 |
| Ethanol | 106 | 70-130 |
| Freon 113 | 98 | 70-130 |
| Acetone | 92 | 70-130 |
| 2-Propanol | 99 | 70-130 |
| Carbon Disulfide | 102 | 70-130 |
| 3-Chloropropene | 118 | 70-130 |
| Methylene Chloride | 88 | 70-130 |
| Hexane | 107 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 102 | 70-130 |
| Tetrahydrofuran | 100 | 70-130 |
| Cyclohexane | 110 | 70-130 |
| 2,2,4-Trimethylpentane | 88 | 70-130 |
| Heptane | 105 | 70-130 |
| 1,2-Dichloropropane | 92 | 70-130 |
| 1,4-Dioxane | 115 | 70-130 |
| Bromodichloromethane | 100 | 70-130 |
| cis-1,3-Dichloropropene | 102 | 70-130 |
| 4-Methyl-2-pentanone | 106 | 70-130 |
| trans-1,3-Dichloropropene | 100 | 70-130 |
| 2-Hexanone | 110 | 70-130 |
| Dibromochloromethane | 106 | 70-130 |
| Chlorobenzene | 99 | 70-130 |
| Styrene | 111 | 70-130 |
| Bromoform | 106 | 70-130 |
| Cumene | 112 | 70-130 |
| Propylbenzene | 108 | 70-130 |
| 4-Ethyltoluene | 117 | 70-130 |
| 1,3,5-Trimethylbenzene | 114 | 70-130 |
| 1,2,4-Trimethylbenzene | 114 | 70-130 |
| 1,3-Dichlorobenzene | 96 | 70-130 |
| alpha-Chlorotoluene | 110 | 70-130 |
| 1,2-Dichlorobenzene | 100 | 70-130 |
| 1,2,4-Trichlorobenzene | 89 | 70-130 |
| Hexachlorobutadiene | 93 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 90 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745B-25C

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 20021203

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 2/12/20 09:37 AM

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2001745B-25CC

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021204 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 10:17 AM |

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| 1,3-Butadiene | 102 | 70-130 |
| Bromomethane | 110 | 70-130 |
| Freon 11 | 105 | 70-130 |
| Ethanol | 115 | 70-130 |
| Freon 113 | 95 | 70-130 |
| Acetone | 94 | 70-130 |
| 2-Propanol | 98 | 70-130 |
| Carbon Disulfide | 100 | 70-130 |
| 3-Chloropropene | 111 | 70-130 |
| Methylene Chloride | 88 | 70-130 |
| Hexane | 107 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 104 | 70-130 |
| Tetrahydrofuran | 105 | 70-130 |
| Cyclohexane | 114 | 70-130 |
| 2,2,4-Trimethylpentane | 93 | 70-130 |
| Heptane | 104 | 70-130 |
| 1,2-Dichloropropane | 91 | 70-130 |
| 1,4-Dioxane | 109 | 70-130 |
| Bromodichloromethane | 99 | 70-130 |
| cis-1,3-Dichloropropene | 103 | 70-130 |
| 4-Methyl-2-pentanone | 101 | 70-130 |
| trans-1,3-Dichloropropene | 98 | 70-130 |
| 2-Hexanone | 110 | 70-130 |
| Dibromochloromethane | 101 | 70-130 |
| Chlorobenzene | 96 | 70-130 |
| Styrene | 107 | 70-130 |
| Bromoform | 104 | 70-130 |
| Cumene | 107 | 70-130 |
| Propylbenzene | 104 | 70-130 |
| 4-Ethyltoluene | 113 | 70-130 |
| 1,3,5-Trimethylbenzene | 108 | 70-130 |
| 1,2,4-Trimethylbenzene | 110 | 70-130 |
| 1,3-Dichlorobenzene | 96 | 70-130 |
| alpha-Chlorotoluene | 109 | 70-130 |
| 1,2-Dichlorobenzene | 100 | 70-130 |
| 1,2,4-Trichlorobenzene | 99 | 70-130 |
| Hexachlorobutadiene | 102 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2001745B-25CC

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 20021204

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 2/12/20 10:17 AM

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745B-25D

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 20021203sim
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 2/12/20 09:37 AM

| Compound | %Recovery | Method Limits |
|---------------------------|-----------|---------------|
| Freon 12 | 98 | 70-130 |
| Freon 114 | 99 | 70-130 |
| Chloromethane | 82 | 70-130 |
| Vinyl Chloride | 100 | 70-130 |
| Chloroethane | 100 | 70-130 |
| 1,1-Dichloroethene | 97 | 70-130 |
| trans-1,2-Dichloroethene | 112 | 70-130 |
| Methyl tert-butyl ether | 113 | 70-130 |
| 1,1-Dichloroethane | 94 | 70-130 |
| cis-1,2-Dichloroethene | 94 | 70-130 |
| Chloroform | 104 | 70-130 |
| 1,1,1-Trichloroethane | 102 | 70-130 |
| Carbon Tetrachloride | 120 | 60-140 |
| Benzene | 96 | 70-130 |
| 1,2-Dichloroethane | 90 | 70-130 |
| Trichloroethene | 96 | 70-130 |
| Toluene | 104 | 70-130 |
| 1,1,2-Trichloroethane | 93 | 70-130 |
| Tetrachloroethene | 97 | 70-130 |
| 1,2-Dibromoethane (EDB) | 97 | 70-130 |
| Ethyl Benzene | 112 | 70-130 |
| m,p-Xylene | 116 | 70-130 |
| o-Xylene | 113 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 83 | 70-130 |
| 1,4-Dichlorobenzene | 99 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2001745B-25DD

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 20021204sim
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 2/12/20 10:17 AM

| Compound | %Recovery | Method Limits |
|---------------------------|-----------|---------------|
| Freon 12 | 97 | 70-130 |
| Freon 114 | 98 | 70-130 |
| Chloromethane | 81 | 70-130 |
| Vinyl Chloride | 100 | 70-130 |
| Chloroethane | 101 | 70-130 |
| 1,1-Dichloroethene | 97 | 70-130 |
| trans-1,2-Dichloroethene | 111 | 70-130 |
| Methyl tert-butyl ether | 114 | 70-130 |
| 1,1-Dichloroethane | 94 | 70-130 |
| cis-1,2-Dichloroethene | 94 | 70-130 |
| Chloroform | 103 | 70-130 |
| 1,1,1-Trichloroethane | 101 | 70-130 |
| Carbon Tetrachloride | 120 | 60-140 |
| Benzene | 94 | 70-130 |
| 1,2-Dichloroethane | 88 | 70-130 |
| Trichloroethene | 94 | 70-130 |
| Toluene | 102 | 70-130 |
| 1,1,2-Trichloroethane | 93 | 70-130 |
| Tetrachloroethene | 96 | 70-130 |
| 1,2-Dibromoethane (EDB) | 96 | 70-130 |
| Ethyl Benzene | 113 | 70-130 |
| m,p-Xylene | 115 | 70-130 |
| o-Xylene | 115 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 83 | 70-130 |
| 1,4-Dichlorobenzene | 101 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745B-25E

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | v021203 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:25 AM |

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| 1,3-Butadiene | 104 | 70-130 |
| Bromomethane | 107 | 70-130 |
| Freon 11 | 98 | 70-130 |
| Ethanol | 103 | 70-130 |
| Freon 113 | 80 | 70-130 |
| Acetone | 107 | 70-130 |
| 2-Propanol | 115 | 70-130 |
| Carbon Disulfide | 109 | 70-130 |
| 3-Chloropropene | 97 | 70-130 |
| Methylene Chloride | 96 | 70-130 |
| Hexane | 111 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 105 | 70-130 |
| Tetrahydrofuran | 121 | 70-130 |
| Cyclohexane | 98 | 70-130 |
| 2,2,4-Trimethylpentane | 112 | 70-130 |
| Heptane | 115 | 70-130 |
| 1,2-Dichloropropane | 113 | 70-130 |
| 1,4-Dioxane | 105 | 70-130 |
| Bromodichloromethane | 103 | 70-130 |
| cis-1,3-Dichloropropene | 105 | 70-130 |
| 4-Methyl-2-pentanone | 122 | 70-130 |
| trans-1,3-Dichloropropene | 96 | 70-130 |
| 2-Hexanone | 114 | 70-130 |
| Dibromochloromethane | 91 | 70-130 |
| Chlorobenzene | 90 | 70-130 |
| Styrene | 86 | 70-130 |
| Bromoform | 87 | 70-130 |
| Cumene | 85 | 70-130 |
| Propylbenzene | 96 | 70-130 |
| 4-Ethyltoluene | 105 | 70-130 |
| 1,3,5-Trimethylbenzene | 99 | 70-130 |
| 1,2,4-Trimethylbenzene | 94 | 70-130 |
| 1,3-Dichlorobenzene | 83 | 70-130 |
| alpha-Chlorotoluene | 87 | 70-130 |
| 1,2-Dichlorobenzene | 82 | 70-130 |
| 1,2,4-Trichlorobenzene | 64 Q | 70-130 |
| Hexachlorobutadiene | 68 Q | 70-130 |

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: LCS

Lab ID#: 2001745B-25E

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: v021203

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 2/12/20 11:25 AM

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 82 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2001745B-25EE

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | v021204 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 12:04 PM |

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| 1,3-Butadiene | 108 | 70-130 |
| Bromomethane | 108 | 70-130 |
| Freon 11 | 99 | 70-130 |
| Ethanol | 104 | 70-130 |
| Freon 113 | 79 | 70-130 |
| Acetone | 109 | 70-130 |
| 2-Propanol | 117 | 70-130 |
| Carbon Disulfide | 111 | 70-130 |
| 3-Chloropropene | 100 | 70-130 |
| Methylene Chloride | 98 | 70-130 |
| Hexane | 112 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 104 | 70-130 |
| Tetrahydrofuran | 121 | 70-130 |
| Cyclohexane | 100 | 70-130 |
| 2,2,4-Trimethylpentane | 112 | 70-130 |
| Heptane | 118 | 70-130 |
| 1,2-Dichloropropane | 114 | 70-130 |
| 1,4-Dioxane | 107 | 70-130 |
| Bromodichloromethane | 106 | 70-130 |
| cis-1,3-Dichloropropene | 107 | 70-130 |
| 4-Methyl-2-pentanone | 127 | 70-130 |
| trans-1,3-Dichloropropene | 100 | 70-130 |
| 2-Hexanone | 116 | 70-130 |
| Dibromochloromethane | 95 | 70-130 |
| Chlorobenzene | 92 | 70-130 |
| Styrene | 90 | 70-130 |
| Bromoform | 91 | 70-130 |
| Cumene | 88 | 70-130 |
| Propylbenzene | 100 | 70-130 |
| 4-Ethyltoluene | 108 | 70-130 |
| 1,3,5-Trimethylbenzene | 104 | 70-130 |
| 1,2,4-Trimethylbenzene | 100 | 70-130 |
| 1,3-Dichlorobenzene | 86 | 70-130 |
| alpha-Chlorotoluene | 95 | 70-130 |
| 1,2-Dichlorobenzene | 88 | 70-130 |
| 1,2,4-Trichlorobenzene | 84 | 70-130 |
| Hexachlorobutadiene | 84 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 112 | 70-130 |



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2001745B-25EE

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: v021204
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 2/12/20 12:04 PM

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 87 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745B-25F

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|------------|------------------------------------|
| File Name: | v021203sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:25 AM |

| Compound | %Recovery | Method Limits |
|---------------------------|-----------|---------------|
| Freon 12 | 96 | 70-130 |
| Freon 114 | 84 | 70-130 |
| Chloromethane | 115 | 70-130 |
| Vinyl Chloride | 104 | 70-130 |
| Chloroethane | 114 | 70-130 |
| 1,1-Dichloroethene | 84 | 70-130 |
| trans-1,2-Dichloroethene | 99 | 70-130 |
| Methyl tert-butyl ether | 95 | 70-130 |
| 1,1-Dichloroethane | 105 | 70-130 |
| cis-1,2-Dichloroethene | 82 | 70-130 |
| Chloroform | 98 | 70-130 |
| 1,1,1-Trichloroethane | 92 | 70-130 |
| Carbon Tetrachloride | 69 | 60-140 |
| Benzene | 96 | 70-130 |
| 1,2-Dichloroethane | 106 | 70-130 |
| Trichloroethene | 85 | 70-130 |
| Toluene | 87 | 70-130 |
| 1,1,2-Trichloroethane | 98 | 70-130 |
| Tetrachloroethene | 81 | 70-130 |
| 1,2-Dibromoethane (EDB) | 92 | 70-130 |
| Ethyl Benzene | 85 | 70-130 |
| m,p-Xylene | 75 | 70-130 |
| o-Xylene | 76 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 100 | 70-130 |
| 1,4-Dichlorobenzene | 74 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 115 | 70-130 |
| Toluene-d8 | 107 | 70-130 |
| 4-Bromofluorobenzene | 81 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2001745B-25FF

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|------------|------------------------------------|
| File Name: | v021204sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 12:04 PM |

| Compound | %Recovery | Method Limits |
|---------------------------|-----------|---------------|
| Freon 12 | 95 | 70-130 |
| Freon 114 | 85 | 70-130 |
| Chloromethane | 114 | 70-130 |
| Vinyl Chloride | 104 | 70-130 |
| Chloroethane | 114 | 70-130 |
| 1,1-Dichloroethene | 85 | 70-130 |
| trans-1,2-Dichloroethene | 100 | 70-130 |
| Methyl tert-butyl ether | 96 | 70-130 |
| 1,1-Dichloroethane | 106 | 70-130 |
| cis-1,2-Dichloroethene | 83 | 70-130 |
| Chloroform | 99 | 70-130 |
| 1,1,1-Trichloroethane | 92 | 70-130 |
| Carbon Tetrachloride | 69 | 60-140 |
| Benzene | 96 | 70-130 |
| 1,2-Dichloroethane | 106 | 70-130 |
| Trichloroethene | 86 | 70-130 |
| Toluene | 88 | 70-130 |
| 1,1,2-Trichloroethane | 98 | 70-130 |
| Tetrachloroethene | 80 | 70-130 |
| 1,2-Dibromoethane (EDB) | 92 | 70-130 |
| Ethyl Benzene | 87 | 70-130 |
| m,p-Xylene | 76 | 70-130 |
| o-Xylene | 77 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 103 | 70-130 |
| 1,4-Dichlorobenzene | 76 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 115 | 70-130 |
| Toluene-d8 | 107 | 70-130 |
| 4-Bromofluorobenzene | 81 | 70-130 |

2/13/2020

Mr. Tyler Curley

EA Engineering

320 Gold Avenue, SW

Suite 1300

Albuquerque NM 87102

Project Name: COPPER POINTE

Project #: 20146

Workorder #: 2001745A

Dear Mr. Tyler Curley

The following report includes the data for the above referenced project for sample(s) received on 1/31/2020 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Brian Whittaker

Project Manager

WORK ORDER #: 2001745A

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Tyler Curley EA Engineering 320 Gold Avenue, SW Suite 1300 Albuquerque, NM 87102 | BILL TO: | Accounts Payable - Lewisville EA Engineering 405 S. Highway 121 Suite C-100 Lewisville, TX 75067 |
| PHONE: | (505) 224-9013 | P.O. # | 20146 |
| FAX: | (505) 224-9016 | PROJECT # | 20146 COPPER POINTE |
| DATE RECEIVED: | 01/31/2020 | CONTACT: | Brian Whittaker |
| DATE COMPLETED: | 02/13/2020 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|----------------|-------------------------------|---------------------------|
| 01A | IA-A-01 | Modified TO-15 | 10.5 "Hg | 5 psi |
| 01B | IA-A-01 | Modified TO-15 | 10.5 "Hg | 5 psi |
| 02A | IA-A-02 | Modified TO-15 | 10.0 "Hg | 5 psi |
| 02B | IA-A-02 | Modified TO-15 | 10.0 "Hg | 5 psi |
| 03A | IA-A-03 | Modified TO-15 | 10.5 "Hg | 5 psi |
| 03B | IA-A-03 | Modified TO-15 | 10.5 "Hg | 5 psi |
| 04A | IA-A-03-D | Modified TO-15 | 10.5 "Hg | 5 psi |
| 04B | IA-A-03-D | Modified TO-15 | 10.5 "Hg | 5 psi |
| 05A | IA-A-04 | Modified TO-15 | 10.5 "Hg | 5 psi |
| 05B | IA-A-04 | Modified TO-15 | 10.5 "Hg | 5 psi |
| 06A | IA-A-05 | Modified TO-15 | 10.0 "Hg | 5 psi |
| 06B | IA-A-05 | Modified TO-15 | 10.0 "Hg | 5 psi |
| 07A | IA-C-01 | Modified TO-15 | 11.0 "Hg | 5 psi |
| 07B | IA-C-01 | Modified TO-15 | 11.0 "Hg | 5 psi |
| 08A | IA-C-02 | Modified TO-15 | 10.0 "Hg | 5 psi |
| 08B | IA-C-02 | Modified TO-15 | 10.0 "Hg | 5 psi |
| 09A | IA-C-03 | Modified TO-15 | 11.5 "Hg | 5 psi |
| 09B | IA-C-03 | Modified TO-15 | 11.5 "Hg | 5 psi |
| 10A | IA-C-04 | Modified TO-15 | 9.5 "Hg | 5 psi |
| 10B | IA-C-04 | Modified TO-15 | 9.5 "Hg | 5 psi |
| 11A | Lab Blank | Modified TO-15 | NA | NA |
| 11B | Lab Blank | Modified TO-15 | NA | NA |
| 12A | CCV | Modified TO-15 | NA | NA |

Continued on next page

WORK ORDER #: 2001745A

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Tyler Curley EA Engineering 320 Gold Avenue, SW Suite 1300 Albuquerque, NM 87102 | BILL TO: | Accounts Payable - Lewisville EA Engineering 405 S. Highway 121 Suite C-100 Lewisville, TX 75067 |
| PHONE: | (505) 224-9013 | P.O. # | 20146 |
| FAX: | (505) 224-9016 | PROJECT # | 20146 COPPER POINTE |
| DATE RECEIVED: | 01/31/2020 | CONTACT: | Brian Whittaker |
| DATE COMPLETED: | 02/13/2020 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|----------------|-------------------------------|---------------------------|
| 12B | CCV | Modified TO-15 | NA | NA |
| 13A | LCS | Modified TO-15 | NA | NA |
| 13AA | LCSD | Modified TO-15 | NA | NA |
| 13B | LCS | Modified TO-15 | NA | NA |
| 13BB | LCSD | Modified TO-15 | NA | NA |

CERTIFIED BY:



Technical Director

DATE: 02/13/20

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
EA Engineering
Workorder# 2001745A

Ten 6 Liter Summa Canister (100% SIM Ambient) samples were received on January 31, 2020. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|--|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD | For Full Scan: 30% RSD with 4 compounds allowed out to $< 40\%$ RSD For SIM: Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD |
| Daily Calibration | $\pm 30\%$ Difference | For Full Scan: $\leq 30\%$ Difference with four allowed out up to $\leq 40\%$.; flag and narrate outliers For SIM: Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Dilution was performed on samples IA-C-01, IA-C-02, IA-C-03 and IA-C-04 due to the presence of high level target species.

The reported result for 4-Ethyltoluene in samples IA-A-01, IA-A-03, IA-A-03-D, IA-A-04 and IA-A-05 may be biased high due to co-elution with a non target compound with similar characteristic ions. Both the primary and secondary ion for 4-Ethyltoluene exhibited potential interference.

2-Propanol was detected at concentrations less than 5 times the reporting limit in sample IA-C-01. Because the preceding sample contained concentrations of 2-Propanol exceeding the calibration range, the result for this compound in sample IA-C-01 may be biased high.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-A-01

Lab ID#: 2001745A-01A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11 | 0.21 | 0.27 | 1.2 | 1.5 |
| Ethanol | 1.0 | 300 E | 1.9 | 560 E |
| Freon 113 | 0.21 | 0.49 | 1.6 | 3.8 |
| Acetone | 2.1 | 46 | 4.9 | 110 |
| 2-Propanol | 1.0 | 280 E | 2.5 | 680 E |
| Hexane | 1.0 | 1.1 | 3.6 | 4.0 |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | 2.2 | 3.0 | 6.6 |
| Cyclohexane | 0.21 | 0.52 | 0.71 | 1.8 |
| 4-Ethyltoluene | 0.21 | 0.39 | 1.0 | 1.9 |
| 1,2,4-Trimethylbenzene | 0.21 | 0.41 | 1.0 | 2.0 |

Client Sample ID: IA-A-01

Lab ID#: 2001745A-01B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.041 | 0.49 | 0.20 | 2.4 |
| 1,1-Dichloroethene | 0.021 | 0.030 | 0.082 | 0.12 |
| Carbon Tetrachloride | 0.041 | 0.074 | 0.26 | 0.47 |
| Benzene | 0.10 | 0.67 | 0.33 | 2.1 |
| Trichloroethene | 0.041 | 0.28 | 0.22 | 1.5 |
| Toluene | 0.10 | 2.7 | 0.39 | 10 |
| Ethyl Benzene | 0.041 | 2.0 | 0.18 | 8.9 |
| m,p-Xylene | 0.082 | 4.7 | 0.36 | 20 |
| o-Xylene | 0.041 | 1.6 | 0.18 | 6.8 |

Client Sample ID: IA-A-02

Lab ID#: 2001745A-02A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------|----------------------|------------------|-----------------------|-------------------|
| Freon 11 | 0.20 | 0.26 | 1.1 | 1.5 |
| Ethanol | 1.0 | 350 E | 1.9 | 660 E |
| Freon 113 | 0.20 | 0.53 | 1.5 | 4.1 |
| Acetone | 2.0 | 25 | 4.8 | 59 |

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-A-02

Lab ID#: 2001745A-02A

| | | | | |
|------------------------|------|-------|------|-------|
| 2-Propanol | 1.0 | 110 E | 2.5 | 260 E |
| Cyclohexane | 0.20 | 0.26 | 0.69 | 0.89 |
| 4-Ethyltoluene | 0.20 | 0.28 | 0.99 | 1.4 |
| 1,2,4-Trimethylbenzene | 0.20 | 0.29 | 0.99 | 1.4 |

Client Sample ID: IA-A-02

Lab ID#: 2001745A-02B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.040 | 0.51 | 0.20 | 2.5 |
| 1,1-Dichloroethene | 0.020 | 0.031 | 0.080 | 0.12 |
| Carbon Tetrachloride | 0.040 | 0.074 | 0.25 | 0.46 |
| Benzene | 0.10 | 0.54 | 0.32 | 1.7 |
| Trichloroethene | 0.040 | 0.27 | 0.22 | 1.4 |
| ----- | | | | |
| Toluene | 0.10 | 2.0 | 0.38 | 7.7 |
| Ethyl Benzene | 0.040 | 0.86 | 0.17 | 3.7 |
| m,p-Xylene | 0.080 | 2.6 | 0.35 | 11 |
| o-Xylene | 0.040 | 0.89 | 0.17 | 3.9 |

Client Sample ID: IA-A-03

Lab ID#: 2001745A-03A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11 | 0.21 | 0.22 | 1.2 | 1.3 |
| Ethanol | 1.0 | 340 E | 1.9 | 640 E |
| Freon 113 | 0.21 | 0.42 | 1.6 | 3.2 |
| Acetone | 2.1 | 47 | 4.9 | 110 |
| 2-Propanol | 1.0 | 100 E | 2.5 | 260 E |
| ----- | | | | |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | 2.3 | 3.0 | 6.7 |
| 4-Ethyltoluene | 0.21 | 0.31 | 1.0 | 1.5 |
| 1,2,4-Trimethylbenzene | 0.21 | 0.28 | 1.0 | 1.4 |

Client Sample ID: IA-A-03

Lab ID#: 2001745A-03B

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-A-03

Lab ID#: 2001745A-03B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.041 | 0.49 | 0.20 | 2.4 |
| 1,1-Dichloroethene | 0.021 | 0.033 | 0.082 | 0.13 |
| Carbon Tetrachloride | 0.041 | 0.072 | 0.26 | 0.46 |
| Benzene | 0.10 | 0.52 | 0.33 | 1.6 |
| Trichloroethene | 0.041 | 0.26 | 0.22 | 1.4 |
| Toluene | 0.10 | 1.9 | 0.39 | 7.3 |
| Ethyl Benzene | 0.041 | 0.87 | 0.18 | 3.8 |
| m,p-Xylene | 0.082 | 2.5 | 0.36 | 11 |
| o-Xylene | 0.041 | 0.84 | 0.18 | 3.7 |

Client Sample ID: IA-A-03-D

Lab ID#: 2001745A-04A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11 | 0.21 | 0.23 | 1.2 | 1.3 |
| Ethanol | 1.0 | 330 E | 1.9 | 630 E |
| Freon 113 | 0.21 | 0.46 | 1.6 | 3.5 |
| Acetone | 2.1 | 30 | 4.9 | 71 |
| 2-Propanol | 1.0 | 100 E | 2.5 | 240 E |
| Cyclohexane | 0.21 | 0.27 | 0.71 | 0.92 |
| 4-Ethyltoluene | 0.21 | 0.24 | 1.0 | 1.2 |
| 1,2,4-Trimethylbenzene | 0.21 | 0.23 | 1.0 | 1.1 |

Client Sample ID: IA-A-03-D

Lab ID#: 2001745A-04B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.041 | 0.51 | 0.20 | 2.5 |
| 1,1-Dichloroethene | 0.021 | 0.031 | 0.082 | 0.12 |
| Carbon Tetrachloride | 0.041 | 0.072 | 0.26 | 0.45 |
| Benzene | 0.10 | 0.52 | 0.33 | 1.7 |
| Trichloroethene | 0.041 | 0.25 | 0.22 | 1.4 |
| Toluene | 0.10 | 2.1 | 0.39 | 7.9 |

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-A-03-D

Lab ID#: 2001745A-04B

| | | | | |
|-------------------|-------|-------|------|------|
| Tetrachloroethene | 0.041 | 0.043 | 0.28 | 0.29 |
| Ethyl Benzene | 0.041 | 0.86 | 0.18 | 3.7 |
| m,p-Xylene | 0.082 | 2.5 | 0.36 | 11 |
| o-Xylene | 0.041 | 0.86 | 0.18 | 3.7 |

Client Sample ID: IA-A-04

Lab ID#: 2001745A-05A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11 | 0.21 | 0.25 | 1.2 | 1.4 |
| Ethanol | 1.0 | 360 E | 1.9 | 670 E |
| Freon 113 | 0.21 | 0.46 | 1.6 | 3.6 |
| Acetone | 2.1 | 61 | 4.9 | 140 |
| 2-Propanol | 1.0 | 100 E | 2.5 | 250 E |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | 2.0 | 3.0 | 6.0 |
| Cyclohexane | 0.21 | 0.30 | 0.71 | 1.0 |
| 4-Ethyltoluene | 0.21 | 0.26 | 1.0 | 1.3 |
| 1,2,4-Trimethylbenzene | 0.21 | 0.28 | 1.0 | 1.4 |

Client Sample ID: IA-A-04

Lab ID#: 2001745A-05B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.041 | 0.48 | 0.20 | 2.4 |
| 1,1-Dichloroethene | 0.021 | 0.029 | 0.082 | 0.11 |
| Carbon Tetrachloride | 0.041 | 0.073 | 0.26 | 0.46 |
| Benzene | 0.10 | 0.51 | 0.33 | 1.6 |
| Trichloroethene | 0.041 | 0.24 | 0.22 | 1.3 |
| Toluene | 0.10 | 1.9 | 0.39 | 7.0 |
| Ethyl Benzene | 0.041 | 0.81 | 0.18 | 3.5 |
| m,p-Xylene | 0.082 | 2.4 | 0.36 | 10 |
| o-Xylene | 0.041 | 0.82 | 0.18 | 3.6 |

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-A-05

Lab ID#: 2001745A-06A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 11 | 0.20 | 0.24 | 1.1 | 1.3 |
| Ethanol | 1.0 | 330 E | 1.9 | 620 E |
| Freon 113 | 0.20 | 0.42 | 1.5 | 3.2 |
| Acetone | 2.0 | 25 | 4.8 | 60 |
| 2-Propanol | 1.0 | 84 E | 2.5 | 210 E |
| Cyclohexane | 0.20 | 0.23 | 0.69 | 0.78 |
| 4-Ethyltoluene | 0.20 | 0.24 | 0.99 | 1.2 |
| 1,2,4-Trimethylbenzene | 0.20 | 0.24 | 0.99 | 1.2 |

Client Sample ID: IA-A-05

Lab ID#: 2001745A-06B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.040 | 0.50 | 0.20 | 2.5 |
| 1,1-Dichloroethene | 0.020 | 0.026 | 0.080 | 0.10 |
| Carbon Tetrachloride | 0.040 | 0.075 | 0.25 | 0.47 |
| Benzene | 0.10 | 0.53 | 0.32 | 1.7 |
| Trichloroethene | 0.040 | 0.24 | 0.22 | 1.3 |
| Toluene | 0.10 | 1.9 | 0.38 | 7.3 |
| Ethyl Benzene | 0.040 | 0.72 | 0.17 | 3.1 |
| m,p-Xylene | 0.080 | 2.1 | 0.35 | 9.2 |
| o-Xylene | 0.040 | 0.72 | 0.17 | 3.1 |

Client Sample ID: IA-C-01

Lab ID#: 2001745A-07A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 3.5 | 570 E | 6.7 | 1100 E |
| Acetone | 7.1 | 29 | 17 | 68 |
| 2-Propanol | 3.5 | 5.3 | 8.7 | 13 |

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-01

Lab ID#: 2001745A-07B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.14 | 0.48 | 0.70 | 2.4 |
| 1,1,1-Trichloroethane | 0.14 | 0.22 | 0.77 | 1.2 |
| Trichloroethene | 0.14 | 0.16 | 0.76 | 0.88 |
| Toluene | 0.35 | 1.1 | 1.3 | 4.0 |
| Ethyl Benzene | 0.14 | 14 | 0.61 | 59 |
| m,p-Xylene | 0.28 | 72 | 1.2 | 310 |
| o-Xylene | 0.14 | 24 | 0.61 | 110 |

Client Sample ID: IA-C-02

Lab ID#: 2001745A-08A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 2.5 | 400 E | 4.7 | 760 E |
| Acetone | 5.0 | 35 | 12 | 84 |
| 2-Propanol | 2.5 | 4.4 | 6.2 | 11 |
| 2-Butanone (Methyl Ethyl Ketone) | 2.5 | 3.0 | 7.4 | 8.9 |

Client Sample ID: IA-C-02

Lab ID#: 2001745A-08B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.10 | 0.48 | 0.50 | 2.4 |
| 1,1,1-Trichloroethane | 0.10 | 0.21 | 0.55 | 1.2 |
| Benzene | 0.25 | 0.26 | 0.80 | 0.85 |
| Trichloroethene | 0.10 | 0.16 | 0.54 | 0.86 |
| Toluene | 0.25 | 1.0 | 0.94 | 3.8 |
| Ethyl Benzene | 0.10 | 14 | 0.44 | 59 |
| m,p-Xylene | 0.20 | 75 | 0.87 | 320 |
| o-Xylene | 0.10 | 24 | 0.44 | 110 |

Client Sample ID: IA-C-03

Lab ID#: 2001745A-09A

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-03

Lab ID#: 2001745A-09A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 2.7 | 600 E | 5.1 | 1100 E |
| Acetone | 5.4 | 32 | 13 | 77 |
| 2-Propanol | 2.7 | 6.0 | 6.7 | 15 |
| 2-Butanone (Methyl Ethyl Ketone) | 2.7 | 3.3 | 8.0 | 9.8 |

Client Sample ID: IA-C-03

Lab ID#: 2001745A-09B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.11 | 0.47 | 0.54 | 2.3 |
| 1,1,1-Trichloroethane | 0.11 | 0.17 | 0.59 | 0.95 |
| Benzene | 0.27 | 0.32 | 0.86 | 1.0 |
| Trichloroethene | 0.11 | 0.17 | 0.58 | 0.90 |
| Toluene | 0.27 | 1.0 | 1.0 | 3.9 |
| Ethyl Benzene | 0.11 | 13 | 0.47 | 58 |
| m,p-Xylene | 0.22 | 72 | 0.94 | 310 |
| o-Xylene | 0.11 | 24 | 0.47 | 100 |

Client Sample ID: IA-C-04

Lab ID#: 2001745A-10A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------|----------------------|------------------|-----------------------|-------------------|
| Ethanol | 3.3 | 840 E | 6.2 | 1600 E |
| Acetone | 6.5 | 27 | 16 | 64 |
| 2-Propanol | 3.3 | 4.8 | 8.0 | 12 |

Client Sample ID: IA-C-04

Lab ID#: 2001745A-10B

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.47 | 0.64 | 2.3 |
| 1,1,1-Trichloroethane | 0.13 | 0.16 | 0.71 | 0.85 |

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: IA-C-04

Lab ID#: 2001745A-10B

| | | | | |
|-----------------|------|------|------|------|
| Trichloroethene | 0.13 | 0.15 | 0.70 | 0.83 |
| Toluene | 0.33 | 1.1 | 1.2 | 4.1 |
| Ethyl Benzene | 0.13 | 14 | 0.57 | 60 |
| m,p-Xylene | 0.26 | 75 | 1.1 | 330 |
| o-Xylene | 0.13 | 26 | 0.57 | 110 |
| ----- | | | | |

Client Sample ID: IA-A-01

Lab ID#: 2001745A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021207 | Date of Collection: | 1/29/20 6:35:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: | 2/12/20 12:49 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.21 | Not Detected | 0.46 | Not Detected |
| Bromomethane | 1.0 | Not Detected | 4.0 | Not Detected |
| Freon 11 | 0.21 | 0.27 | 1.2 | 1.5 |
| Ethanol | 1.0 | 300 E | 1.9 | 560 E |
| Freon 113 | 0.21 | 0.49 | 1.6 | 3.8 |
| Acetone | 2.1 | 46 | 4.9 | 110 |
| 2-Propanol | 1.0 | 280 E | 2.5 | 680 E |
| Carbon Disulfide | 1.0 | Not Detected | 3.2 | Not Detected |
| 3-Chloropropene | 1.0 | Not Detected | 3.2 | Not Detected |
| Methylene Chloride | 0.41 | Not Detected | 1.4 | Not Detected |
| Hexane | 1.0 | 1.1 | 3.6 | 4.0 |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | 2.2 | 3.0 | 6.6 |
| Tetrahydrofuran | 1.0 | Not Detected | 3.0 | Not Detected |
| Cyclohexane | 0.21 | 0.52 | 0.71 | 1.8 |
| 2,2,4-Trimethylpentane | 1.0 | Not Detected | 4.8 | Not Detected |
| Heptane | 1.0 | Not Detected | 4.2 | Not Detected |
| 1,2-Dichloropropane | 0.21 | Not Detected | 0.95 | Not Detected |
| 1,4-Dioxane | 0.21 | Not Detected | 0.74 | Not Detected |
| Bromodichloromethane | 0.21 | Not Detected | 1.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.21 | Not Detected | 0.93 | Not Detected |
| 4-Methyl-2-pentanone | 0.21 | Not Detected | 0.84 | Not Detected |
| trans-1,3-Dichloropropene | 0.21 | Not Detected | 0.93 | Not Detected |
| 2-Hexanone | 1.0 | Not Detected | 4.2 | Not Detected |
| Dibromochloromethane | 0.21 | Not Detected | 1.8 | Not Detected |
| Chlorobenzene | 0.21 | Not Detected | 0.95 | Not Detected |
| Styrene | 0.21 | Not Detected | 0.88 | Not Detected |
| Bromoform | 0.21 | Not Detected | 2.1 | Not Detected |
| Cumene | 0.21 | Not Detected | 1.0 | Not Detected |
| Propylbenzene | 0.21 | Not Detected | 1.0 | Not Detected |
| 4-Ethyltoluene | 0.21 | 0.39 | 1.0 | 1.9 |
| 1,3,5-Trimethylbenzene | 0.21 | Not Detected | 1.0 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.21 | 0.41 | 1.0 | 2.0 |
| 1,3-Dichlorobenzene | 0.21 | Not Detected | 1.2 | Not Detected |
| alpha-Chlorotoluene | 0.21 | Not Detected | 1.1 | Not Detected |
| 1,2-Dichlorobenzene | 0.21 | Not Detected | 1.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected | 7.6 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected | 11 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-A-01

Lab ID#: 2001745A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021207 | Date of Collection: 1/29/20 6:35:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: 2/12/20 12:49 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 115 | 70-130 |

Client Sample ID: IA-A-01

Lab ID#: 2001745A-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021207sim | Date of Collection: | 1/29/20 6:35:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: | 2/12/20 12:49 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.041 | 0.49 | 0.20 | 2.4 |
| Freon 114 | 0.041 | Not Detected | 0.29 | Not Detected |
| Chloromethane | 1.0 | Not Detected | 2.1 | Not Detected |
| Vinyl Chloride | 0.021 | Not Detected | 0.053 | Not Detected |
| Chloroethane | 0.10 | Not Detected | 0.27 | Not Detected |
| 1,1-Dichloroethene | 0.021 | 0.030 | 0.082 | 0.12 |
| trans-1,2-Dichloroethene | 0.21 | Not Detected | 0.82 | Not Detected |
| Methyl tert-butyl ether | 0.21 | Not Detected | 0.74 | Not Detected |
| 1,1-Dichloroethane | 0.041 | Not Detected | 0.17 | Not Detected |
| cis-1,2-Dichloroethene | 0.041 | Not Detected | 0.16 | Not Detected |
| Chloroform | 0.041 | Not Detected | 0.20 | Not Detected |
| 1,1,1-Trichloroethane | 0.041 | Not Detected | 0.22 | Not Detected |
| Carbon Tetrachloride | 0.041 | 0.074 | 0.26 | 0.47 |
| Benzene | 0.10 | 0.67 | 0.33 | 2.1 |
| 1,2-Dichloroethane | 0.041 | Not Detected | 0.17 | Not Detected |
| Trichloroethene | 0.041 | 0.28 | 0.22 | 1.5 |
| Toluene | 0.10 | 2.7 | 0.39 | 10 |
| 1,1,2-Trichloroethane | 0.041 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.041 | Not Detected | 0.28 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.041 | Not Detected | 0.32 | Not Detected |
| Ethyl Benzene | 0.041 | 2.0 | 0.18 | 8.9 |
| m,p-Xylene | 0.082 | 4.7 | 0.36 | 20 |
| o-Xylene | 0.041 | 1.6 | 0.18 | 6.8 |
| 1,1,2,2-Tetrachloroethane | 0.041 | Not Detected | 0.28 | Not Detected |
| 1,4-Dichlorobenzene | 0.041 | Not Detected | 0.25 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

Client Sample ID: IA-A-02

Lab ID#: 2001745A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021208 | Date of Collection: | 1/29/20 6:45:00 PM |
| Dil. Factor: | 2.01 | Date of Analysis: | 2/12/20 01:40 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.20 | Not Detected | 0.44 | Not Detected |
| Bromomethane | 1.0 | Not Detected | 3.9 | Not Detected |
| Freon 11 | 0.20 | 0.26 | 1.1 | 1.5 |
| Ethanol | 1.0 | 350 E | 1.9 | 660 E |
| Freon 113 | 0.20 | 0.53 | 1.5 | 4.1 |
| Acetone | 2.0 | 25 | 4.8 | 59 |
| 2-Propanol | 1.0 | 110 E | 2.5 | 260 E |
| Carbon Disulfide | 1.0 | Not Detected | 3.1 | Not Detected |
| 3-Chloropropene | 1.0 | Not Detected | 3.1 | Not Detected |
| Methylene Chloride | 0.40 | Not Detected | 1.4 | Not Detected |
| Hexane | 1.0 | Not Detected | 3.5 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | Not Detected | 3.0 | Not Detected |
| Tetrahydrofuran | 1.0 | Not Detected | 3.0 | Not Detected |
| Cyclohexane | 0.20 | 0.26 | 0.69 | 0.89 |
| 2,2,4-Trimethylpentane | 1.0 | Not Detected | 4.7 | Not Detected |
| Heptane | 1.0 | Not Detected | 4.1 | Not Detected |
| 1,2-Dichloropropane | 0.20 | Not Detected | 0.93 | Not Detected |
| 1,4-Dioxane | 0.20 | Not Detected | 0.72 | Not Detected |
| Bromodichloromethane | 0.20 | Not Detected | 1.3 | Not Detected |
| cis-1,3-Dichloropropene | 0.20 | Not Detected | 0.91 | Not Detected |
| 4-Methyl-2-pentanone | 0.20 | Not Detected | 0.82 | Not Detected |
| trans-1,3-Dichloropropene | 0.20 | Not Detected | 0.91 | Not Detected |
| 2-Hexanone | 1.0 | Not Detected | 4.1 | Not Detected |
| Dibromochloromethane | 0.20 | Not Detected | 1.7 | Not Detected |
| Chlorobenzene | 0.20 | Not Detected | 0.92 | Not Detected |
| Styrene | 0.20 | Not Detected | 0.86 | Not Detected |
| Bromoform | 0.20 | Not Detected | 2.1 | Not Detected |
| Cumene | 0.20 | Not Detected | 0.99 | Not Detected |
| Propylbenzene | 0.20 | Not Detected | 0.99 | Not Detected |
| 4-Ethyltoluene | 0.20 | 0.28 | 0.99 | 1.4 |
| 1,3,5-Trimethylbenzene | 0.20 | Not Detected | 0.99 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.20 | 0.29 | 0.99 | 1.4 |
| 1,3-Dichlorobenzene | 0.20 | Not Detected | 1.2 | Not Detected |
| alpha-Chlorotoluene | 0.20 | Not Detected | 1.0 | Not Detected |
| 1,2-Dichlorobenzene | 0.20 | Not Detected | 1.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected | 7.4 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected | 11 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-A-02

Lab ID#: 2001745A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021208 | Date of Collection: 1/29/20 6:45:00 PM |
| Dil. Factor: | 2.01 | Date of Analysis: 2/12/20 01:40 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 93 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

Client Sample ID: IA-A-02

Lab ID#: 2001745A-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021208sim | Date of Collection: | 1/29/20 6:45:00 PM |
| Dil. Factor: | 2.01 | Date of Analysis: | 2/12/20 01:40 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.040 | 0.51 | 0.20 | 2.5 |
| Freon 114 | 0.040 | Not Detected | 0.28 | Not Detected |
| Chloromethane | 1.0 | Not Detected | 2.1 | Not Detected |
| Vinyl Chloride | 0.020 | Not Detected | 0.051 | Not Detected |
| Chloroethane | 0.10 | Not Detected | 0.26 | Not Detected |
| 1,1-Dichloroethene | 0.020 | 0.031 | 0.080 | 0.12 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |
| Methyl tert-butyl ether | 0.20 | Not Detected | 0.72 | Not Detected |
| 1,1-Dichloroethane | 0.040 | Not Detected | 0.16 | Not Detected |
| cis-1,2-Dichloroethene | 0.040 | Not Detected | 0.16 | Not Detected |
| Chloroform | 0.040 | Not Detected | 0.20 | Not Detected |
| 1,1,1-Trichloroethane | 0.040 | Not Detected | 0.22 | Not Detected |
| Carbon Tetrachloride | 0.040 | 0.074 | 0.25 | 0.46 |
| Benzene | 0.10 | 0.54 | 0.32 | 1.7 |
| 1,2-Dichloroethane | 0.040 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.040 | 0.27 | 0.22 | 1.4 |
| Toluene | 0.10 | 2.0 | 0.38 | 7.7 |
| 1,1,2-Trichloroethane | 0.040 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.040 | Not Detected | 0.27 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.040 | Not Detected | 0.31 | Not Detected |
| Ethyl Benzene | 0.040 | 0.86 | 0.17 | 3.7 |
| m,p-Xylene | 0.080 | 2.6 | 0.35 | 11 |
| o-Xylene | 0.040 | 0.89 | 0.17 | 3.9 |
| 1,1,2,2-Tetrachloroethane | 0.040 | Not Detected | 0.28 | Not Detected |
| 1,4-Dichlorobenzene | 0.040 | Not Detected | 0.24 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 117 | 70-130 |

Client Sample ID: IA-A-03

Lab ID#: 2001745A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021210 | Date of Collection: | 1/29/20 6:53:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: | 2/12/20 03:31 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.21 | Not Detected | 0.46 | Not Detected |
| Bromomethane | 1.0 | Not Detected | 4.0 | Not Detected |
| Freon 11 | 0.21 | 0.22 | 1.2 | 1.3 |
| Ethanol | 1.0 | 340 E | 1.9 | 640 E |
| Freon 113 | 0.21 | 0.42 | 1.6 | 3.2 |
| Acetone | 2.1 | 47 | 4.9 | 110 |
| 2-Propanol | 1.0 | 100 E | 2.5 | 260 E |
| Carbon Disulfide | 1.0 | Not Detected | 3.2 | Not Detected |
| 3-Chloropropene | 1.0 | Not Detected | 3.2 | Not Detected |
| Methylene Chloride | 0.41 | Not Detected | 1.4 | Not Detected |
| Hexane | 1.0 | Not Detected | 3.6 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | 2.3 | 3.0 | 6.7 |
| Tetrahydrofuran | 1.0 | Not Detected | 3.0 | Not Detected |
| Cyclohexane | 0.21 | Not Detected | 0.71 | Not Detected |
| 2,2,4-Trimethylpentane | 1.0 | Not Detected | 4.8 | Not Detected |
| Heptane | 1.0 | Not Detected | 4.2 | Not Detected |
| 1,2-Dichloropropane | 0.21 | Not Detected | 0.95 | Not Detected |
| 1,4-Dioxane | 0.21 | Not Detected | 0.74 | Not Detected |
| Bromodichloromethane | 0.21 | Not Detected | 1.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.21 | Not Detected | 0.93 | Not Detected |
| 4-Methyl-2-pentanone | 0.21 | Not Detected | 0.84 | Not Detected |
| trans-1,3-Dichloropropene | 0.21 | Not Detected | 0.93 | Not Detected |
| 2-Hexanone | 1.0 | Not Detected | 4.2 | Not Detected |
| Dibromochloromethane | 0.21 | Not Detected | 1.8 | Not Detected |
| Chlorobenzene | 0.21 | Not Detected | 0.95 | Not Detected |
| Styrene | 0.21 | Not Detected | 0.88 | Not Detected |
| Bromoform | 0.21 | Not Detected | 2.1 | Not Detected |
| Cumene | 0.21 | Not Detected | 1.0 | Not Detected |
| Propylbenzene | 0.21 | Not Detected | 1.0 | Not Detected |
| 4-Ethyltoluene | 0.21 | 0.31 | 1.0 | 1.5 |
| 1,3,5-Trimethylbenzene | 0.21 | Not Detected | 1.0 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.21 | 0.28 | 1.0 | 1.4 |
| 1,3-Dichlorobenzene | 0.21 | Not Detected | 1.2 | Not Detected |
| alpha-Chlorotoluene | 0.21 | Not Detected | 1.1 | Not Detected |
| 1,2-Dichlorobenzene | 0.21 | Not Detected | 1.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected | 7.6 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected | 11 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-A-03

Lab ID#: 2001745A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021210 | Date of Collection: 1/29/20 6:53:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: 2/12/20 03:31 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

Client Sample ID: IA-A-03

Lab ID#: 2001745A-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021210sim | Date of Collection: | 1/29/20 6:53:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: | 2/12/20 03:31 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.041 | 0.49 | 0.20 | 2.4 |
| Freon 114 | 0.041 | Not Detected | 0.29 | Not Detected |
| Chloromethane | 1.0 | Not Detected | 2.1 | Not Detected |
| Vinyl Chloride | 0.021 | Not Detected | 0.053 | Not Detected |
| Chloroethane | 0.10 | Not Detected | 0.27 | Not Detected |
| 1,1-Dichloroethene | 0.021 | 0.033 | 0.082 | 0.13 |
| trans-1,2-Dichloroethene | 0.21 | Not Detected | 0.82 | Not Detected |
| Methyl tert-butyl ether | 0.21 | Not Detected | 0.74 | Not Detected |
| 1,1-Dichloroethane | 0.041 | Not Detected | 0.17 | Not Detected |
| cis-1,2-Dichloroethene | 0.041 | Not Detected | 0.16 | Not Detected |
| Chloroform | 0.041 | Not Detected | 0.20 | Not Detected |
| 1,1,1-Trichloroethane | 0.041 | Not Detected | 0.22 | Not Detected |
| Carbon Tetrachloride | 0.041 | 0.072 | 0.26 | 0.46 |
| Benzene | 0.10 | 0.52 | 0.33 | 1.6 |
| 1,2-Dichloroethane | 0.041 | Not Detected | 0.17 | Not Detected |
| Trichloroethene | 0.041 | 0.26 | 0.22 | 1.4 |
| Toluene | 0.10 | 1.9 | 0.39 | 7.3 |
| 1,1,2-Trichloroethane | 0.041 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.041 | Not Detected | 0.28 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.041 | Not Detected | 0.32 | Not Detected |
| Ethyl Benzene | 0.041 | 0.87 | 0.18 | 3.8 |
| m,p-Xylene | 0.082 | 2.5 | 0.36 | 11 |
| o-Xylene | 0.041 | 0.84 | 0.18 | 3.7 |
| 1,1,2,2-Tetrachloroethane | 0.041 | Not Detected | 0.28 | Not Detected |
| 1,4-Dichlorobenzene | 0.041 | Not Detected | 0.25 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

Client Sample ID: IA-A-03-D

Lab ID#: 2001745A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021209 | Date of Collection: | 1/29/20 6:53:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: | 2/12/20 02:51 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.21 | Not Detected | 0.46 | Not Detected |
| Bromomethane | 1.0 | Not Detected | 4.0 | Not Detected |
| Freon 11 | 0.21 | 0.23 | 1.2 | 1.3 |
| Ethanol | 1.0 | 330 E | 1.9 | 630 E |
| Freon 113 | 0.21 | 0.46 | 1.6 | 3.5 |
| Acetone | 2.1 | 30 | 4.9 | 71 |
| 2-Propanol | 1.0 | 100 E | 2.5 | 240 E |
| Carbon Disulfide | 1.0 | Not Detected | 3.2 | Not Detected |
| 3-Chloropropene | 1.0 | Not Detected | 3.2 | Not Detected |
| Methylene Chloride | 0.41 | Not Detected | 1.4 | Not Detected |
| Hexane | 1.0 | Not Detected | 3.6 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | Not Detected | 3.0 | Not Detected |
| Tetrahydrofuran | 1.0 | Not Detected | 3.0 | Not Detected |
| Cyclohexane | 0.21 | 0.27 | 0.71 | 0.92 |
| 2,2,4-Trimethylpentane | 1.0 | Not Detected | 4.8 | Not Detected |
| Heptane | 1.0 | Not Detected | 4.2 | Not Detected |
| 1,2-Dichloropropane | 0.21 | Not Detected | 0.95 | Not Detected |
| 1,4-Dioxane | 0.21 | Not Detected | 0.74 | Not Detected |
| Bromodichloromethane | 0.21 | Not Detected | 1.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.21 | Not Detected | 0.93 | Not Detected |
| 4-Methyl-2-pentanone | 0.21 | Not Detected | 0.84 | Not Detected |
| trans-1,3-Dichloropropene | 0.21 | Not Detected | 0.93 | Not Detected |
| 2-Hexanone | 1.0 | Not Detected | 4.2 | Not Detected |
| Dibromochloromethane | 0.21 | Not Detected | 1.8 | Not Detected |
| Chlorobenzene | 0.21 | Not Detected | 0.95 | Not Detected |
| Styrene | 0.21 | Not Detected | 0.88 | Not Detected |
| Bromoform | 0.21 | Not Detected | 2.1 | Not Detected |
| Cumene | 0.21 | Not Detected | 1.0 | Not Detected |
| Propylbenzene | 0.21 | Not Detected | 1.0 | Not Detected |
| 4-Ethyltoluene | 0.21 | 0.24 | 1.0 | 1.2 |
| 1,3,5-Trimethylbenzene | 0.21 | Not Detected | 1.0 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.21 | 0.23 | 1.0 | 1.1 |
| 1,3-Dichlorobenzene | 0.21 | Not Detected | 1.2 | Not Detected |
| alpha-Chlorotoluene | 0.21 | Not Detected | 1.1 | Not Detected |
| 1,2-Dichlorobenzene | 0.21 | Not Detected | 1.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected | 7.6 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected | 11 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-A-03-D

Lab ID#: 2001745A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021209 | Date of Collection: 1/29/20 6:53:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: 2/12/20 02:51 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 95 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

Client Sample ID: IA-A-03-D

Lab ID#: 2001745A-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021209sim | Date of Collection: | 1/29/20 6:53:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: | 2/12/20 02:51 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.041 | 0.51 | 0.20 | 2.5 |
| Freon 114 | 0.041 | Not Detected | 0.29 | Not Detected |
| Chloromethane | 1.0 | Not Detected | 2.1 | Not Detected |
| Vinyl Chloride | 0.021 | Not Detected | 0.053 | Not Detected |
| Chloroethane | 0.10 | Not Detected | 0.27 | Not Detected |
| 1,1-Dichloroethene | 0.021 | 0.031 | 0.082 | 0.12 |
| trans-1,2-Dichloroethene | 0.21 | Not Detected | 0.82 | Not Detected |
| Methyl tert-butyl ether | 0.21 | Not Detected | 0.74 | Not Detected |
| 1,1-Dichloroethane | 0.041 | Not Detected | 0.17 | Not Detected |
| cis-1,2-Dichloroethene | 0.041 | Not Detected | 0.16 | Not Detected |
| Chloroform | 0.041 | Not Detected | 0.20 | Not Detected |
| 1,1,1-Trichloroethane | 0.041 | Not Detected | 0.22 | Not Detected |
| Carbon Tetrachloride | 0.041 | 0.072 | 0.26 | 0.45 |
| Benzene | 0.10 | 0.52 | 0.33 | 1.7 |
| 1,2-Dichloroethane | 0.041 | Not Detected | 0.17 | Not Detected |
| Trichloroethene | 0.041 | 0.25 | 0.22 | 1.4 |
| Toluene | 0.10 | 2.1 | 0.39 | 7.9 |
| 1,1,2-Trichloroethane | 0.041 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.041 | 0.043 | 0.28 | 0.29 |
| 1,2-Dibromoethane (EDB) | 0.041 | Not Detected | 0.32 | Not Detected |
| Ethyl Benzene | 0.041 | 0.86 | 0.18 | 3.7 |
| m,p-Xylene | 0.082 | 2.5 | 0.36 | 11 |
| o-Xylene | 0.041 | 0.86 | 0.18 | 3.7 |
| 1,1,2,2-Tetrachloroethane | 0.041 | Not Detected | 0.28 | Not Detected |
| 1,4-Dichlorobenzene | 0.041 | Not Detected | 0.25 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 116 | 70-130 |

Client Sample ID: IA-A-04

Lab ID#: 2001745A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021211 | Date of Collection: | 1/29/20 6:56:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: | 2/12/20 04:10 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.21 | Not Detected | 0.46 | Not Detected |
| Bromomethane | 1.0 | Not Detected | 4.0 | Not Detected |
| Freon 11 | 0.21 | 0.25 | 1.2 | 1.4 |
| Ethanol | 1.0 | 360 E | 1.9 | 670 E |
| Freon 113 | 0.21 | 0.46 | 1.6 | 3.6 |
| Acetone | 2.1 | 61 | 4.9 | 140 |
| 2-Propanol | 1.0 | 100 E | 2.5 | 250 E |
| Carbon Disulfide | 1.0 | Not Detected | 3.2 | Not Detected |
| 3-Chloropropene | 1.0 | Not Detected | 3.2 | Not Detected |
| Methylene Chloride | 0.41 | Not Detected | 1.4 | Not Detected |
| Hexane | 1.0 | Not Detected | 3.6 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | 2.0 | 3.0 | 6.0 |
| Tetrahydrofuran | 1.0 | Not Detected | 3.0 | Not Detected |
| Cyclohexane | 0.21 | 0.30 | 0.71 | 1.0 |
| 2,2,4-Trimethylpentane | 1.0 | Not Detected | 4.8 | Not Detected |
| Heptane | 1.0 | Not Detected | 4.2 | Not Detected |
| 1,2-Dichloropropane | 0.21 | Not Detected | 0.95 | Not Detected |
| 1,4-Dioxane | 0.21 | Not Detected | 0.74 | Not Detected |
| Bromodichloromethane | 0.21 | Not Detected | 1.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.21 | Not Detected | 0.93 | Not Detected |
| 4-Methyl-2-pentanone | 0.21 | Not Detected | 0.84 | Not Detected |
| trans-1,3-Dichloropropene | 0.21 | Not Detected | 0.93 | Not Detected |
| 2-Hexanone | 1.0 | Not Detected | 4.2 | Not Detected |
| Dibromochloromethane | 0.21 | Not Detected | 1.8 | Not Detected |
| Chlorobenzene | 0.21 | Not Detected | 0.95 | Not Detected |
| Styrene | 0.21 | Not Detected | 0.88 | Not Detected |
| Bromoform | 0.21 | Not Detected | 2.1 | Not Detected |
| Cumene | 0.21 | Not Detected | 1.0 | Not Detected |
| Propylbenzene | 0.21 | Not Detected | 1.0 | Not Detected |
| 4-Ethyltoluene | 0.21 | 0.26 | 1.0 | 1.3 |
| 1,3,5-Trimethylbenzene | 0.21 | Not Detected | 1.0 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.21 | 0.28 | 1.0 | 1.4 |
| 1,3-Dichlorobenzene | 0.21 | Not Detected | 1.2 | Not Detected |
| alpha-Chlorotoluene | 0.21 | Not Detected | 1.1 | Not Detected |
| 1,2-Dichlorobenzene | 0.21 | Not Detected | 1.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected | 7.6 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected | 11 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-A-04

Lab ID#: 2001745A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021211 | Date of Collection: 1/29/20 6:56:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: 2/12/20 04:10 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 91 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

Client Sample ID: IA-A-04

Lab ID#: 2001745A-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021211sim | Date of Collection: | 1/29/20 6:56:00 PM |
| Dil. Factor: | 2.06 | Date of Analysis: | 2/12/20 04:10 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12 | 0.041 | 0.48 | 0.20 | 2.4 |
| Freon 114 | 0.041 | Not Detected | 0.29 | Not Detected |
| Chloromethane | 1.0 | Not Detected | 2.1 | Not Detected |
| Vinyl Chloride | 0.021 | Not Detected | 0.053 | Not Detected |
| Chloroethane | 0.10 | Not Detected | 0.27 | Not Detected |
| 1,1-Dichloroethene | 0.021 | 0.029 | 0.082 | 0.11 |
| trans-1,2-Dichloroethene | 0.21 | Not Detected | 0.82 | Not Detected |
| Methyl tert-butyl ether | 0.21 | Not Detected | 0.74 | Not Detected |
| 1,1-Dichloroethane | 0.041 | Not Detected | 0.17 | Not Detected |
| cis-1,2-Dichloroethene | 0.041 | Not Detected | 0.16 | Not Detected |
| Chloroform | 0.041 | Not Detected | 0.20 | Not Detected |
| 1,1,1-Trichloroethane | 0.041 | Not Detected | 0.22 | Not Detected |
| Carbon Tetrachloride | 0.041 | 0.073 | 0.26 | 0.46 |
| Benzene | 0.10 | 0.51 | 0.33 | 1.6 |
| 1,2-Dichloroethane | 0.041 | Not Detected | 0.17 | Not Detected |
| Trichloroethene | 0.041 | 0.24 | 0.22 | 1.3 |
| Toluene | 0.10 | 1.9 | 0.39 | 7.0 |
| 1,1,2-Trichloroethane | 0.041 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.041 | Not Detected | 0.28 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.041 | Not Detected | 0.32 | Not Detected |
| Ethyl Benzene | 0.041 | 0.81 | 0.18 | 3.5 |
| m,p-Xylene | 0.082 | 2.4 | 0.36 | 10 |
| o-Xylene | 0.041 | 0.82 | 0.18 | 3.6 |
| 1,1,2,2-Tetrachloroethane | 0.041 | Not Detected | 0.28 | Not Detected |
| 1,4-Dichlorobenzene | 0.041 | Not Detected | 0.25 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 95 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

Client Sample ID: IA-A-05

Lab ID#: 2001745A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021212 | Date of Collection: | 1/29/20 6:19:00 PM |
| Dil. Factor: | 2.01 | Date of Analysis: | 2/12/20 04:49 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.20 | Not Detected | 0.44 | Not Detected |
| Bromomethane | 1.0 | Not Detected | 3.9 | Not Detected |
| Freon 11 | 0.20 | 0.24 | 1.1 | 1.3 |
| Ethanol | 1.0 | 330 E | 1.9 | 620 E |
| Freon 113 | 0.20 | 0.42 | 1.5 | 3.2 |
| Acetone | 2.0 | 25 | 4.8 | 60 |
| 2-Propanol | 1.0 | 84 E | 2.5 | 210 E |
| Carbon Disulfide | 1.0 | Not Detected | 3.1 | Not Detected |
| 3-Chloropropene | 1.0 | Not Detected | 3.1 | Not Detected |
| Methylene Chloride | 0.40 | Not Detected | 1.4 | Not Detected |
| Hexane | 1.0 | Not Detected | 3.5 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.0 | Not Detected | 3.0 | Not Detected |
| Tetrahydrofuran | 1.0 | Not Detected | 3.0 | Not Detected |
| Cyclohexane | 0.20 | 0.23 | 0.69 | 0.78 |
| 2,2,4-Trimethylpentane | 1.0 | Not Detected | 4.7 | Not Detected |
| Heptane | 1.0 | Not Detected | 4.1 | Not Detected |
| 1,2-Dichloropropane | 0.20 | Not Detected | 0.93 | Not Detected |
| 1,4-Dioxane | 0.20 | Not Detected | 0.72 | Not Detected |
| Bromodichloromethane | 0.20 | Not Detected | 1.3 | Not Detected |
| cis-1,3-Dichloropropene | 0.20 | Not Detected | 0.91 | Not Detected |
| 4-Methyl-2-pentanone | 0.20 | Not Detected | 0.82 | Not Detected |
| trans-1,3-Dichloropropene | 0.20 | Not Detected | 0.91 | Not Detected |
| 2-Hexanone | 1.0 | Not Detected | 4.1 | Not Detected |
| Dibromochloromethane | 0.20 | Not Detected | 1.7 | Not Detected |
| Chlorobenzene | 0.20 | Not Detected | 0.92 | Not Detected |
| Styrene | 0.20 | Not Detected | 0.86 | Not Detected |
| Bromoform | 0.20 | Not Detected | 2.1 | Not Detected |
| Cumene | 0.20 | Not Detected | 0.99 | Not Detected |
| Propylbenzene | 0.20 | Not Detected | 0.99 | Not Detected |
| 4-Ethyltoluene | 0.20 | 0.24 | 0.99 | 1.2 |
| 1,3,5-Trimethylbenzene | 0.20 | Not Detected | 0.99 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.20 | 0.24 | 0.99 | 1.2 |
| 1,3-Dichlorobenzene | 0.20 | Not Detected | 1.2 | Not Detected |
| alpha-Chlorotoluene | 0.20 | Not Detected | 1.0 | Not Detected |
| 1,2-Dichlorobenzene | 0.20 | Not Detected | 1.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.0 | Not Detected | 7.4 | Not Detected |
| Hexachlorobutadiene | 1.0 | Not Detected | 11 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-A-05

Lab ID#: 2001745A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021212 | Date of Collection: 1/29/20 6:19:00 PM |
| Dil. Factor: | 2.01 | Date of Analysis: 2/12/20 04:49 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 92 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

Client Sample ID: IA-A-05

Lab ID#: 2001745A-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021212sim | Date of Collection: | 1/29/20 6:19:00 PM |
| Dil. Factor: | 2.01 | Date of Analysis: | 2/12/20 04:49 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.040 | 0.50 | 0.20 | 2.5 |
| Freon 114 | 0.040 | Not Detected | 0.28 | Not Detected |
| Chloromethane | 1.0 | Not Detected | 2.1 | Not Detected |
| Vinyl Chloride | 0.020 | Not Detected | 0.051 | Not Detected |
| Chloroethane | 0.10 | Not Detected | 0.26 | Not Detected |
| 1,1-Dichloroethene | 0.020 | 0.026 | 0.080 | 0.10 |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |
| Methyl tert-butyl ether | 0.20 | Not Detected | 0.72 | Not Detected |
| 1,1-Dichloroethane | 0.040 | Not Detected | 0.16 | Not Detected |
| cis-1,2-Dichloroethene | 0.040 | Not Detected | 0.16 | Not Detected |
| Chloroform | 0.040 | Not Detected | 0.20 | Not Detected |
| 1,1,1-Trichloroethane | 0.040 | Not Detected | 0.22 | Not Detected |
| Carbon Tetrachloride | 0.040 | 0.075 | 0.25 | 0.47 |
| Benzene | 0.10 | 0.53 | 0.32 | 1.7 |
| 1,2-Dichloroethane | 0.040 | Not Detected | 0.16 | Not Detected |
| Trichloroethene | 0.040 | 0.24 | 0.22 | 1.3 |
| Toluene | 0.10 | 1.9 | 0.38 | 7.3 |
| 1,1,2-Trichloroethane | 0.040 | Not Detected | 0.22 | Not Detected |
| Tetrachloroethene | 0.040 | Not Detected | 0.27 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.040 | Not Detected | 0.31 | Not Detected |
| Ethyl Benzene | 0.040 | 0.72 | 0.17 | 3.1 |
| m,p-Xylene | 0.080 | 2.1 | 0.35 | 9.2 |
| o-Xylene | 0.040 | 0.72 | 0.17 | 3.1 |
| 1,1,2,2-Tetrachloroethane | 0.040 | Not Detected | 0.28 | Not Detected |
| 1,4-Dichlorobenzene | 0.040 | Not Detected | 0.24 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 95 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |



Air Toxics

Client Sample ID: IA-C-01

Lab ID#: 2001745A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021213 | Date of Collection: | 1/29/20 4:15:00 PM |
| Dil. Factor: | 7.07 | Date of Analysis: | 2/12/20 05:29 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,3-Butadiene | 0.71 | Not Detected | 1.6 | Not Detected |
| Bromomethane | 3.5 | Not Detected | 14 | Not Detected |
| Freon 11 | 0.71 | Not Detected | 4.0 | Not Detected |
| Ethanol | 3.5 | 570 E | 6.7 | 1100 E |
| Freon 113 | 0.71 | Not Detected | 5.4 | Not Detected |
| Acetone | 7.1 | 29 | 17 | 68 |
| 2-Propanol | 3.5 | 5.3 | 8.7 | 13 |
| Carbon Disulfide | 3.5 | Not Detected | 11 | Not Detected |
| 3-Chloropropene | 3.5 | Not Detected | 11 | Not Detected |
| Methylene Chloride | 1.4 | Not Detected | 4.9 | Not Detected |
| Hexane | 3.5 | Not Detected | 12 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 3.5 | Not Detected | 10 | Not Detected |
| Tetrahydrofuran | 3.5 | Not Detected | 10 | Not Detected |
| Cyclohexane | 0.71 | Not Detected | 2.4 | Not Detected |
| 2,2,4-Trimethylpentane | 3.5 | Not Detected | 16 | Not Detected |
| Heptane | 3.5 | Not Detected | 14 | Not Detected |
| 1,2-Dichloropropane | 0.71 | Not Detected | 3.3 | Not Detected |
| 1,4-Dioxane | 0.71 | Not Detected | 2.5 | Not Detected |
| Bromodichloromethane | 0.71 | Not Detected | 4.7 | Not Detected |
| cis-1,3-Dichloropropene | 0.71 | Not Detected | 3.2 | Not Detected |
| 4-Methyl-2-pentanone | 0.71 | Not Detected | 2.9 | Not Detected |
| trans-1,3-Dichloropropene | 0.71 | Not Detected | 3.2 | Not Detected |
| 2-Hexanone | 3.5 | Not Detected | 14 | Not Detected |
| Dibromochloromethane | 0.71 | Not Detected | 6.0 | Not Detected |
| Chlorobenzene | 0.71 | Not Detected | 3.2 | Not Detected |
| Styrene | 0.71 | Not Detected | 3.0 | Not Detected |
| Bromoform | 0.71 | Not Detected | 7.3 | Not Detected |
| Cumene | 0.71 | Not Detected | 3.5 | Not Detected |
| Propylbenzene | 0.71 | Not Detected | 3.5 | Not Detected |
| 4-Ethyltoluene | 0.71 | Not Detected | 3.5 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.71 | Not Detected | 3.5 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.71 | Not Detected | 3.5 | Not Detected |
| 1,3-Dichlorobenzene | 0.71 | Not Detected | 4.2 | Not Detected |
| alpha-Chlorotoluene | 0.71 | Not Detected | 3.7 | Not Detected |
| 1,2-Dichlorobenzene | 0.71 | Not Detected | 4.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.5 | Not Detected | 26 | Not Detected |
| Hexachlorobutadiene | 3.5 | Not Detected | 38 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-01

Lab ID#: 2001745A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021213 | Date of Collection: 1/29/20 4:15:00 PM |
| Dil. Factor: | 7.07 | Date of Analysis: 2/12/20 05:29 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |

Client Sample ID: IA-C-01

Lab ID#: 2001745A-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021213sim | Date of Collection: | 1/29/20 4:15:00 PM |
| Dil. Factor: | 7.07 | Date of Analysis: | 2/12/20 05:29 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.14 | 0.48 | 0.70 | 2.4 |
| Freon 114 | 0.14 | Not Detected | 0.99 | Not Detected |
| Chloromethane | 3.5 | Not Detected | 7.3 | Not Detected |
| Vinyl Chloride | 0.071 | Not Detected | 0.18 | Not Detected |
| Chloroethane | 0.35 | Not Detected | 0.93 | Not Detected |
| 1,1-Dichloroethene | 0.071 | Not Detected | 0.28 | Not Detected |
| trans-1,2-Dichloroethene | 0.71 | Not Detected | 2.8 | Not Detected |
| Methyl tert-butyl ether | 0.71 | Not Detected | 2.5 | Not Detected |
| 1,1-Dichloroethane | 0.14 | Not Detected | 0.57 | Not Detected |
| cis-1,2-Dichloroethene | 0.14 | Not Detected | 0.56 | Not Detected |
| Chloroform | 0.14 | Not Detected | 0.69 | Not Detected |
| 1,1,1-Trichloroethane | 0.14 | 0.22 | 0.77 | 1.2 |
| Carbon Tetrachloride | 0.14 | Not Detected | 0.89 | Not Detected |
| Benzene | 0.35 | Not Detected | 1.1 | Not Detected |
| 1,2-Dichloroethane | 0.14 | Not Detected | 0.57 | Not Detected |
| Trichloroethene | 0.14 | 0.16 | 0.76 | 0.88 |
| Toluene | 0.35 | 1.1 | 1.3 | 4.0 |
| 1,1,2-Trichloroethane | 0.14 | Not Detected | 0.77 | Not Detected |
| Tetrachloroethene | 0.14 | Not Detected | 0.96 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.14 | Not Detected | 1.1 | Not Detected |
| Ethyl Benzene | 0.14 | 14 | 0.61 | 59 |
| m,p-Xylene | 0.28 | 72 | 1.2 | 310 |
| o-Xylene | 0.14 | 24 | 0.61 | 110 |
| 1,1,2,2-Tetrachloroethane | 0.14 | Not Detected | 0.97 | Not Detected |
| 1,4-Dichlorobenzene | 0.14 | Not Detected | 0.85 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

Client Sample ID: IA-C-02

Lab ID#: 2001745A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021214 | Date of Collection: | 1/29/20 3:33:00 PM |
| Dil. Factor: | 5.02 | Date of Analysis: | 2/12/20 06:08 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,3-Butadiene | 0.50 | Not Detected | 1.1 | Not Detected |
| Bromomethane | 2.5 | Not Detected | 9.7 | Not Detected |
| Freon 11 | 0.50 | Not Detected | 2.8 | Not Detected |
| Ethanol | 2.5 | 400 E | 4.7 | 760 E |
| Freon 113 | 0.50 | Not Detected | 3.8 | Not Detected |
| Acetone | 5.0 | 35 | 12 | 84 |
| 2-Propanol | 2.5 | 4.4 | 6.2 | 11 |
| Carbon Disulfide | 2.5 | Not Detected | 7.8 | Not Detected |
| 3-Chloropropene | 2.5 | Not Detected | 7.8 | Not Detected |
| Methylene Chloride | 1.0 | Not Detected | 3.5 | Not Detected |
| Hexane | 2.5 | Not Detected | 8.8 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2.5 | 3.0 | 7.4 | 8.9 |
| Tetrahydrofuran | 2.5 | Not Detected | 7.4 | Not Detected |
| Cyclohexane | 0.50 | Not Detected | 1.7 | Not Detected |
| 2,2,4-Trimethylpentane | 2.5 | Not Detected | 12 | Not Detected |
| Heptane | 2.5 | Not Detected | 10 | Not Detected |
| 1,2-Dichloropropane | 0.50 | Not Detected | 2.3 | Not Detected |
| 1,4-Dioxane | 0.50 | Not Detected | 1.8 | Not Detected |
| Bromodichloromethane | 0.50 | Not Detected | 3.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 4-Methyl-2-pentanone | 0.50 | Not Detected | 2.0 | Not Detected |
| trans-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 2-Hexanone | 2.5 | Not Detected | 10 | Not Detected |
| Dibromochloromethane | 0.50 | Not Detected | 4.3 | Not Detected |
| Chlorobenzene | 0.50 | Not Detected | 2.3 | Not Detected |
| Styrene | 0.50 | Not Detected | 2.1 | Not Detected |
| Bromoform | 0.50 | Not Detected | 5.2 | Not Detected |
| Cumene | 0.50 | Not Detected | 2.5 | Not Detected |
| Propylbenzene | 0.50 | Not Detected | 2.5 | Not Detected |
| 4-Ethyltoluene | 0.50 | Not Detected | 2.5 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.50 | Not Detected | 2.5 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.50 | Not Detected | 2.5 | Not Detected |
| 1,3-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| alpha-Chlorotoluene | 0.50 | Not Detected | 2.6 | Not Detected |
| 1,2-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.5 | Not Detected | 19 | Not Detected |
| Hexachlorobutadiene | 2.5 | Not Detected | 27 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|------------------|
|------------|-----------|------------------|

Client Sample ID: IA-C-02

Lab ID#: 2001745A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021214 | Date of Collection: 1/29/20 3:33:00 PM |
| Dil. Factor: | 5.02 | Date of Analysis: 2/12/20 06:08 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 91 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

Client Sample ID: IA-C-02

Lab ID#: 2001745A-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021214sim | Date of Collection: | 1/29/20 3:33:00 PM |
| Dil. Factor: | 5.02 | Date of Analysis: | 2/12/20 06:08 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.10 | 0.48 | 0.50 | 2.4 |
| Freon 114 | 0.10 | Not Detected | 0.70 | Not Detected |
| Chloromethane | 2.5 | Not Detected | 5.2 | Not Detected |
| Vinyl Chloride | 0.050 | Not Detected | 0.13 | Not Detected |
| Chloroethane | 0.25 | Not Detected | 0.66 | Not Detected |
| 1,1-Dichloroethene | 0.050 | Not Detected | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Methyl tert-butyl ether | 0.50 | Not Detected | 1.8 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.41 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | 0.21 | 0.55 | 1.2 |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.63 | Not Detected |
| Benzene | 0.25 | 0.26 | 0.80 | 0.85 |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.41 | Not Detected |
| Trichloroethene | 0.10 | 0.16 | 0.54 | 0.86 |
| Toluene | 0.25 | 1.0 | 0.94 | 3.8 |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.55 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.77 | Not Detected |
| Ethyl Benzene | 0.10 | 14 | 0.44 | 59 |
| m,p-Xylene | 0.20 | 75 | 0.87 | 320 |
| o-Xylene | 0.10 | 24 | 0.44 | 110 |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.69 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

Client Sample ID: IA-C-03

Lab ID#: 2001745A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021215 | Date of Collection: | 1/29/20 4:37:00 PM |
| Dil. Factor: | 5.42 | Date of Analysis: | 2/12/20 06:48 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.54 | Not Detected | 1.2 | Not Detected |
| Bromomethane | 2.7 | Not Detected | 10 | Not Detected |
| Freon 11 | 0.54 | Not Detected | 3.0 | Not Detected |
| Ethanol | 2.7 | 600 E | 5.1 | 1100 E |
| Freon 113 | 0.54 | Not Detected | 4.2 | Not Detected |
| Acetone | 5.4 | 32 | 13 | 77 |
| 2-Propanol | 2.7 | 6.0 | 6.7 | 15 |
| Carbon Disulfide | 2.7 | Not Detected | 8.4 | Not Detected |
| 3-Chloropropene | 2.7 | Not Detected | 8.5 | Not Detected |
| Methylene Chloride | 1.1 | Not Detected | 3.8 | Not Detected |
| Hexane | 2.7 | Not Detected | 9.6 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2.7 | 3.3 | 8.0 | 9.8 |
| Tetrahydrofuran | 2.7 | Not Detected | 8.0 | Not Detected |
| Cyclohexane | 0.54 | Not Detected | 1.9 | Not Detected |
| 2,2,4-Trimethylpentane | 2.7 | Not Detected | 13 | Not Detected |
| Heptane | 2.7 | Not Detected | 11 | Not Detected |
| 1,2-Dichloropropane | 0.54 | Not Detected | 2.5 | Not Detected |
| 1,4-Dioxane | 0.54 | Not Detected | 2.0 | Not Detected |
| Bromodichloromethane | 0.54 | Not Detected | 3.6 | Not Detected |
| cis-1,3-Dichloropropene | 0.54 | Not Detected | 2.4 | Not Detected |
| 4-Methyl-2-pentanone | 0.54 | Not Detected | 2.2 | Not Detected |
| trans-1,3-Dichloropropene | 0.54 | Not Detected | 2.4 | Not Detected |
| 2-Hexanone | 2.7 | Not Detected | 11 | Not Detected |
| Dibromochloromethane | 0.54 | Not Detected | 4.6 | Not Detected |
| Chlorobenzene | 0.54 | Not Detected | 2.5 | Not Detected |
| Styrene | 0.54 | Not Detected | 2.3 | Not Detected |
| Bromoform | 0.54 | Not Detected | 5.6 | Not Detected |
| Cumene | 0.54 | Not Detected | 2.7 | Not Detected |
| Propylbenzene | 0.54 | Not Detected | 2.7 | Not Detected |
| 4-Ethyltoluene | 0.54 | Not Detected | 2.7 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.54 | Not Detected | 2.7 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.54 | Not Detected | 2.7 | Not Detected |
| 1,3-Dichlorobenzene | 0.54 | Not Detected | 3.2 | Not Detected |
| alpha-Chlorotoluene | 0.54 | Not Detected | 2.8 | Not Detected |
| 1,2-Dichlorobenzene | 0.54 | Not Detected | 3.2 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.7 | Not Detected | 20 | Not Detected |
| Hexachlorobutadiene | 2.7 | Not Detected | 29 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-03

Lab ID#: 2001745A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021215 | Date of Collection: 1/29/20 4:37:00 PM |
| Dil. Factor: | 5.42 | Date of Analysis: 2/12/20 06:48 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 104 | 70-130 |
| Toluene-d8 | 92 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

Client Sample ID: IA-C-03

Lab ID#: 2001745A-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021215sim | Date of Collection: | 1/29/20 4:37:00 PM |
| Dil. Factor: | 5.42 | Date of Analysis: | 2/12/20 06:48 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|-------------------|---------------|--------------------|----------------|
| Freon 12 | 0.11 | 0.47 | 0.54 | 2.3 |
| Freon 114 | 0.11 | Not Detected | 0.76 | Not Detected |
| Chloromethane | 2.7 | Not Detected | 5.6 | Not Detected |
| Vinyl Chloride | 0.054 | Not Detected | 0.14 | Not Detected |
| Chloroethane | 0.27 | Not Detected | 0.72 | Not Detected |
| 1,1-Dichloroethene | 0.054 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.54 | Not Detected | 2.1 | Not Detected |
| Methyl tert-butyl ether | 0.54 | Not Detected | 2.0 | Not Detected |
| 1,1-Dichloroethane | 0.11 | Not Detected | 0.44 | Not Detected |
| cis-1,2-Dichloroethene | 0.11 | Not Detected | 0.43 | Not Detected |
| Chloroform | 0.11 | Not Detected | 0.53 | Not Detected |
| 1,1,1-Trichloroethane | 0.11 | 0.17 | 0.59 | 0.95 |
| Carbon Tetrachloride | 0.11 | Not Detected | 0.68 | Not Detected |
| Benzene | 0.27 | 0.32 | 0.86 | 1.0 |
| 1,2-Dichloroethane | 0.11 | Not Detected | 0.44 | Not Detected |
| Trichloroethene | 0.11 | 0.17 | 0.58 | 0.90 |
| Toluene | 0.27 | 1.0 | 1.0 | 3.9 |
| 1,1,2-Trichloroethane | 0.11 | Not Detected | 0.59 | Not Detected |
| Tetrachloroethene | 0.11 | Not Detected | 0.74 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.11 | Not Detected | 0.83 | Not Detected |
| Ethyl Benzene | 0.11 | 13 | 0.47 | 58 |
| m,p-Xylene | 0.22 | 72 | 0.94 | 310 |
| o-Xylene | 0.11 | 24 | 0.47 | 100 |
| 1,1,2,2-Tetrachloroethane | 0.11 | Not Detected | 0.74 | Not Detected |
| 1,4-Dichlorobenzene | 0.11 | Not Detected | 0.65 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 95 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |



Air Toxics

Client Sample ID: IA-C-04

Lab ID#: 2001745A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|----------|---------------------|--------------------|
| File Name: | 20021216 | Date of Collection: | 1/29/20 3:46:00 PM |
| Dil. Factor: | 6.53 | Date of Analysis: | 2/12/20 07:27 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|----------------------|------------------|-----------------------|-------------------|
| 1,3-Butadiene | 0.65 | Not Detected | 1.4 | Not Detected |
| Bromomethane | 3.3 | Not Detected | 13 | Not Detected |
| Freon 11 | 0.65 | Not Detected | 3.7 | Not Detected |
| Ethanol | 3.3 | 840 E | 6.2 | 1600 E |
| Freon 113 | 0.65 | Not Detected | 5.0 | Not Detected |
| Acetone | 6.5 | 27 | 16 | 64 |
| 2-Propanol | 3.3 | 4.8 | 8.0 | 12 |
| Carbon Disulfide | 3.3 | Not Detected | 10 | Not Detected |
| 3-Chloropropene | 3.3 | Not Detected | 10 | Not Detected |
| Methylene Chloride | 1.3 | Not Detected | 4.5 | Not Detected |
| Hexane | 3.3 | Not Detected | 12 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 3.3 | Not Detected | 9.6 | Not Detected |
| Tetrahydrofuran | 3.3 | Not Detected | 9.6 | Not Detected |
| Cyclohexane | 0.65 | Not Detected | 2.2 | Not Detected |
| 2,2,4-Trimethylpentane | 3.3 | Not Detected | 15 | Not Detected |
| Heptane | 3.3 | Not Detected | 13 | Not Detected |
| 1,2-Dichloropropane | 0.65 | Not Detected | 3.0 | Not Detected |
| 1,4-Dioxane | 0.65 | Not Detected | 2.4 | Not Detected |
| Bromodichloromethane | 0.65 | Not Detected | 4.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.65 | Not Detected | 3.0 | Not Detected |
| 4-Methyl-2-pentanone | 0.65 | Not Detected | 2.7 | Not Detected |
| trans-1,3-Dichloropropene | 0.65 | Not Detected | 3.0 | Not Detected |
| 2-Hexanone | 3.3 | Not Detected | 13 | Not Detected |
| Dibromochloromethane | 0.65 | Not Detected | 5.6 | Not Detected |
| Chlorobenzene | 0.65 | Not Detected | 3.0 | Not Detected |
| Styrene | 0.65 | Not Detected | 2.8 | Not Detected |
| Bromoform | 0.65 | Not Detected | 6.8 | Not Detected |
| Cumene | 0.65 | Not Detected | 3.2 | Not Detected |
| Propylbenzene | 0.65 | Not Detected | 3.2 | Not Detected |
| 4-Ethyltoluene | 0.65 | Not Detected | 3.2 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.65 | Not Detected | 3.2 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.65 | Not Detected | 3.2 | Not Detected |
| 1,3-Dichlorobenzene | 0.65 | Not Detected | 3.9 | Not Detected |
| alpha-Chlorotoluene | 0.65 | Not Detected | 3.4 | Not Detected |
| 1,2-Dichlorobenzene | 0.65 | Not Detected | 3.9 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.3 | Not Detected | 24 | Not Detected |
| Hexachlorobutadiene | 3.3 | Not Detected | 35 | Not Detected |

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|------------|-----------|---------------|
|------------|-----------|---------------|

Client Sample ID: IA-C-04

Lab ID#: 2001745A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|--|
| File Name: | 20021216 | Date of Collection: 1/29/20 3:46:00 PM |
| Dil. Factor: | 6.53 | Date of Analysis: 2/12/20 07:27 PM |

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 91 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

Client Sample ID: IA-C-04

Lab ID#: 2001745A-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | | |
|--------------|-------------|---------------------|--------------------|
| File Name: | 20021216sim | Date of Collection: | 1/29/20 3:46:00 PM |
| Dil. Factor: | 6.53 | Date of Analysis: | 2/12/20 07:27 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.13 | 0.47 | 0.64 | 2.3 |
| Freon 114 | 0.13 | Not Detected | 0.91 | Not Detected |
| Chloromethane | 3.3 | Not Detected | 6.7 | Not Detected |
| Vinyl Chloride | 0.065 | Not Detected | 0.17 | Not Detected |
| Chloroethane | 0.33 | Not Detected | 0.86 | Not Detected |
| 1,1-Dichloroethene | 0.065 | Not Detected | 0.26 | Not Detected |
| trans-1,2-Dichloroethene | 0.65 | Not Detected | 2.6 | Not Detected |
| Methyl tert-butyl ether | 0.65 | Not Detected | 2.4 | Not Detected |
| 1,1-Dichloroethane | 0.13 | Not Detected | 0.53 | Not Detected |
| cis-1,2-Dichloroethene | 0.13 | Not Detected | 0.52 | Not Detected |
| Chloroform | 0.13 | Not Detected | 0.64 | Not Detected |
| 1,1,1-Trichloroethane | 0.13 | 0.16 | 0.71 | 0.85 |
| Carbon Tetrachloride | 0.13 | Not Detected | 0.82 | Not Detected |
| Benzene | 0.33 | Not Detected | 1.0 | Not Detected |
| 1,2-Dichloroethane | 0.13 | Not Detected | 0.53 | Not Detected |
| Trichloroethene | 0.13 | 0.15 | 0.70 | 0.83 |
| Toluene | 0.33 | 1.1 | 1.2 | 4.1 |
| 1,1,2-Trichloroethane | 0.13 | Not Detected | 0.71 | Not Detected |
| Tetrachloroethene | 0.13 | Not Detected | 0.88 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.13 | Not Detected | 1.0 | Not Detected |
| Ethyl Benzene | 0.13 | 14 | 0.57 | 60 |
| m,p-Xylene | 0.26 | 75 | 1.1 | 330 |
| o-Xylene | 0.13 | 26 | 0.57 | 110 |
| 1,1,2,2-Tetrachloroethane | 0.13 | Not Detected | 0.90 | Not Detected |
| 1,4-Dichlorobenzene | 0.13 | Not Detected | 0.78 | Not Detected |

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 95 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021206 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:36 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------------------------------|-------------------|---------------|--------------------|----------------|
| 1,3-Butadiene | 0.10 | Not Detected | 0.22 | Not Detected |
| Bromomethane | 0.50 | Not Detected | 1.9 | Not Detected |
| Freon 11 | 0.10 | Not Detected | 0.56 | Not Detected |
| Ethanol | 0.50 | Not Detected | 0.94 | Not Detected |
| Freon 113 | 0.10 | Not Detected | 0.77 | Not Detected |
| Acetone | 1.0 | Not Detected | 2.4 | Not Detected |
| 2-Propanol | 0.50 | Not Detected | 1.2 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 0.50 | Not Detected | 1.6 | Not Detected |
| Methylene Chloride | 0.20 | Not Detected | 0.69 | Not Detected |
| Hexane | 0.50 | Not Detected | 1.8 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Cyclohexane | 0.10 | Not Detected | 0.34 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Heptane | 0.50 | Not Detected | 2.0 | Not Detected |
| 1,2-Dichloropropane | 0.10 | Not Detected | 0.46 | Not Detected |
| 1,4-Dioxane | 0.10 | Not Detected | 0.36 | Not Detected |
| Bromodichloromethane | 0.10 | Not Detected | 0.67 | Not Detected |
| cis-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 4-Methyl-2-pentanone | 0.10 | Not Detected | 0.41 | Not Detected |
| trans-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 2-Hexanone | 0.50 | Not Detected | 2.0 | Not Detected |
| Dibromochloromethane | 0.10 | Not Detected | 0.85 | Not Detected |
| Chlorobenzene | 0.10 | Not Detected | 0.46 | Not Detected |
| Styrene | 0.10 | Not Detected | 0.42 | Not Detected |
| Bromoform | 0.10 | Not Detected | 1.0 | Not Detected |
| Cumene | 0.10 | Not Detected | 0.49 | Not Detected |
| Propylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 4-Ethyltoluene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| alpha-Chlorotoluene | 0.10 | Not Detected | 0.52 | Not Detected |
| 1,2-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.50 | Not Detected | 3.7 | Not Detected |
| Hexachlorobutadiene | 0.50 | Not Detected | 5.3 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021206 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:36 AM |

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 94 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 2001745A-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|-------------|------------------------------------|
| File Name: | 20021206sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 11:36 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Freon 12 | 0.020 | Not Detected | 0.099 | Not Detected |
| Freon 114 | 0.020 | Not Detected | 0.14 | Not Detected |
| Chloromethane | 0.50 | Not Detected | 1.0 | Not Detected |
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| Chloroethane | 0.050 | Not Detected | 0.13 | Not Detected |
| 1,1-Dichloroethene | 0.010 | Not Detected | 0.040 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Methyl tert-butyl ether | 0.10 | Not Detected | 0.36 | Not Detected |
| 1,1-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| Chloroform | 0.020 | Not Detected | 0.098 | Not Detected |
| 1,1,1-Trichloroethane | 0.020 | Not Detected | 0.11 | Not Detected |
| Carbon Tetrachloride | 0.020 | Not Detected | 0.12 | Not Detected |
| Benzene | 0.050 | Not Detected | 0.16 | Not Detected |
| 1,2-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Toluene | 0.050 | Not Detected | 0.19 | Not Detected |
| 1,1,2-Trichloroethane | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.020 | Not Detected | 0.15 | Not Detected |
| Ethyl Benzene | 0.020 | Not Detected | 0.087 | Not Detected |
| m,p-Xylene | 0.040 | Not Detected | 0.17 | Not Detected |
| o-Xylene | 0.020 | Not Detected | 0.087 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.020 | Not Detected | 0.14 | Not Detected |
| 1,4-Dichlorobenzene | 0.020 | Not Detected | 0.12 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|------------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021202 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 08:57 AM |

| Compound | %Recovery |
|----------------------------------|-----------|
| 1,3-Butadiene | 99 |
| Bromomethane | 115 |
| Freon 11 | 104 |
| Ethanol | 95 |
| Freon 113 | 96 |
| Acetone | 90 |
| 2-Propanol | 90 |
| Carbon Disulfide | 100 |
| 3-Chloropropene | 109 |
| Methylene Chloride | 87 |
| Hexane | 103 |
| 2-Butanone (Methyl Ethyl Ketone) | 105 |
| Tetrahydrofuran | 100 |
| Cyclohexane | 116 |
| 2,2,4-Trimethylpentane | 93 |
| Heptane | 106 |
| 1,2-Dichloropropane | 92 |
| 1,4-Dioxane | 107 |
| Bromodichloromethane | 97 |
| cis-1,3-Dichloropropene | 96 |
| 4-Methyl-2-pentanone | 96 |
| trans-1,3-Dichloropropene | 95 |
| 2-Hexanone | 102 |
| Dibromochloromethane | 101 |
| Chlorobenzene | 102 |
| Styrene | 114 |
| Bromoform | 101 |
| Cumene | 112 |
| Propylbenzene | 109 |
| 4-Ethyltoluene | 116 |
| 1,3,5-Trimethylbenzene | 112 |
| 1,2,4-Trimethylbenzene | 113 |
| 1,3-Dichlorobenzene | 99 |
| alpha-Chlorotoluene | 102 |
| 1,2-Dichlorobenzene | 102 |
| 1,2,4-Trichlorobenzene | 92 |
| Hexachlorobutadiene | 102 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 20021202

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 2/12/20 08:57 AM

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Client Sample ID: CCV

Lab ID#: 2001745A-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|-------------|------------------------------------|
| File Name: | 20021202sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 08:57 AM |

| Compound | %Recovery |
|---------------------------|-----------|
| Freon 12 | 93 |
| Freon 114 | 95 |
| Chloromethane | 76 |
| Vinyl Chloride | 93 |
| Chloroethane | 94 |
| 1,1-Dichloroethene | 93 |
| trans-1,2-Dichloroethene | 102 |
| Methyl tert-butyl ether | 116 |
| 1,1-Dichloroethane | 96 |
| cis-1,2-Dichloroethene | 104 |
| Chloroform | 102 |
| 1,1,1-Trichloroethane | 97 |
| Carbon Tetrachloride | 107 |
| Benzene | 97 |
| 1,2-Dichloroethane | 92 |
| Trichloroethene | 95 |
| Toluene | 105 |
| 1,1,2-Trichloroethane | 92 |
| Tetrachloroethene | 100 |
| 1,2-Dibromoethane (EDB) | 97 |
| Ethyl Benzene | 114 |
| m,p-Xylene | 118 |
| o-Xylene | 116 |
| 1,1,2,2-Tetrachloroethane | 85 |
| 1,4-Dichlorobenzene | 101 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 92 | 70-130 |
| Toluene-d8 | 105 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 20021203
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 2/12/20 09:37 AM

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| 1,3-Butadiene | 102 | 70-130 |
| Bromomethane | 109 | 70-130 |
| Freon 11 | 106 | 70-130 |
| Ethanol | 106 | 70-130 |
| Freon 113 | 98 | 70-130 |
| Acetone | 92 | 70-130 |
| 2-Propanol | 99 | 70-130 |
| Carbon Disulfide | 102 | 70-130 |
| 3-Chloropropene | 118 | 70-130 |
| Methylene Chloride | 88 | 70-130 |
| Hexane | 107 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 102 | 70-130 |
| Tetrahydrofuran | 100 | 70-130 |
| Cyclohexane | 110 | 70-130 |
| 2,2,4-Trimethylpentane | 88 | 70-130 |
| Heptane | 105 | 70-130 |
| 1,2-Dichloropropane | 92 | 70-130 |
| 1,4-Dioxane | 115 | 70-130 |
| Bromodichloromethane | 100 | 70-130 |
| cis-1,3-Dichloropropene | 102 | 70-130 |
| 4-Methyl-2-pentanone | 106 | 70-130 |
| trans-1,3-Dichloropropene | 100 | 70-130 |
| 2-Hexanone | 110 | 70-130 |
| Dibromochloromethane | 106 | 70-130 |
| Chlorobenzene | 99 | 70-130 |
| Styrene | 111 | 70-130 |
| Bromoform | 106 | 70-130 |
| Cumene | 112 | 70-130 |
| Propylbenzene | 108 | 70-130 |
| 4-Ethyltoluene | 117 | 70-130 |
| 1,3,5-Trimethylbenzene | 114 | 70-130 |
| 1,2,4-Trimethylbenzene | 114 | 70-130 |
| 1,3-Dichlorobenzene | 96 | 70-130 |
| alpha-Chlorotoluene | 110 | 70-130 |
| 1,2-Dichlorobenzene | 100 | 70-130 |
| 1,2,4-Trichlorobenzene | 89 | 70-130 |
| Hexachlorobutadiene | 93 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 90 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 20021203

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 2/12/20 09:37 AM

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2001745A-13AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021204 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 10:17 AM |

| Compound | %Recovery | Method Limits |
|----------------------------------|-----------|---------------|
| 1,3-Butadiene | 102 | 70-130 |
| Bromomethane | 110 | 70-130 |
| Freon 11 | 105 | 70-130 |
| Ethanol | 115 | 70-130 |
| Freon 113 | 95 | 70-130 |
| Acetone | 94 | 70-130 |
| 2-Propanol | 98 | 70-130 |
| Carbon Disulfide | 100 | 70-130 |
| 3-Chloropropene | 111 | 70-130 |
| Methylene Chloride | 88 | 70-130 |
| Hexane | 107 | 70-130 |
| 2-Butanone (Methyl Ethyl Ketone) | 104 | 70-130 |
| Tetrahydrofuran | 105 | 70-130 |
| Cyclohexane | 114 | 70-130 |
| 2,2,4-Trimethylpentane | 93 | 70-130 |
| Heptane | 104 | 70-130 |
| 1,2-Dichloropropane | 91 | 70-130 |
| 1,4-Dioxane | 109 | 70-130 |
| Bromodichloromethane | 99 | 70-130 |
| cis-1,3-Dichloropropene | 103 | 70-130 |
| 4-Methyl-2-pentanone | 101 | 70-130 |
| trans-1,3-Dichloropropene | 98 | 70-130 |
| 2-Hexanone | 110 | 70-130 |
| Dibromochloromethane | 101 | 70-130 |
| Chlorobenzene | 96 | 70-130 |
| Styrene | 107 | 70-130 |
| Bromoform | 104 | 70-130 |
| Cumene | 107 | 70-130 |
| Propylbenzene | 104 | 70-130 |
| 4-Ethyltoluene | 113 | 70-130 |
| 1,3,5-Trimethylbenzene | 108 | 70-130 |
| 1,2,4-Trimethylbenzene | 110 | 70-130 |
| 1,3-Dichlorobenzene | 96 | 70-130 |
| alpha-Chlorotoluene | 109 | 70-130 |
| 1,2-Dichlorobenzene | 100 | 70-130 |
| 1,2,4-Trichlorobenzene | 99 | 70-130 |
| Hexachlorobutadiene | 102 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2001745A-13AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

| | | |
|--------------|----------|------------------------------------|
| File Name: | 20021204 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 2/12/20 10:17 AM |

| Surrogates | %Recovery | Method Limits |
|----------------------|-----------|---------------|
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

Client Sample ID: LCS

Lab ID#: 2001745A-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 20021203sim
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 2/12/20 09:37 AM

| Compound | %Recovery | Method Limits |
|---------------------------|-----------|---------------|
| Freon 12 | 98 | 70-130 |
| Freon 114 | 99 | 70-130 |
| Chloromethane | 82 | 70-130 |
| Vinyl Chloride | 100 | 70-130 |
| Chloroethane | 100 | 70-130 |
| 1,1-Dichloroethene | 97 | 70-130 |
| trans-1,2-Dichloroethene | 112 | 70-130 |
| Methyl tert-butyl ether | 113 | 70-130 |
| 1,1-Dichloroethane | 94 | 70-130 |
| cis-1,2-Dichloroethene | 94 | 70-130 |
| Chloroform | 104 | 70-130 |
| 1,1,1-Trichloroethane | 102 | 70-130 |
| Carbon Tetrachloride | 120 | 60-140 |
| Benzene | 96 | 70-130 |
| 1,2-Dichloroethane | 90 | 70-130 |
| Trichloroethene | 96 | 70-130 |
| Toluene | 104 | 70-130 |
| 1,1,2-Trichloroethane | 93 | 70-130 |
| Tetrachloroethene | 97 | 70-130 |
| 1,2-Dibromoethane (EDB) | 97 | 70-130 |
| Ethyl Benzene | 112 | 70-130 |
| m,p-Xylene | 116 | 70-130 |
| o-Xylene | 113 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 83 | 70-130 |
| 1,4-Dichlorobenzene | 99 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 2001745A-13BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 20021204sim
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 2/12/20 10:17 AM

| Compound | %Recovery | Method Limits |
|---------------------------|-----------|---------------|
| Freon 12 | 97 | 70-130 |
| Freon 114 | 98 | 70-130 |
| Chloromethane | 81 | 70-130 |
| Vinyl Chloride | 100 | 70-130 |
| Chloroethane | 101 | 70-130 |
| 1,1-Dichloroethene | 97 | 70-130 |
| trans-1,2-Dichloroethene | 111 | 70-130 |
| Methyl tert-butyl ether | 114 | 70-130 |
| 1,1-Dichloroethane | 94 | 70-130 |
| cis-1,2-Dichloroethene | 94 | 70-130 |
| Chloroform | 103 | 70-130 |
| 1,1,1-Trichloroethane | 101 | 70-130 |
| Carbon Tetrachloride | 120 | 60-140 |
| Benzene | 94 | 70-130 |
| 1,2-Dichloroethane | 88 | 70-130 |
| Trichloroethene | 94 | 70-130 |
| Toluene | 102 | 70-130 |
| 1,1,2-Trichloroethane | 93 | 70-130 |
| Tetrachloroethene | 96 | 70-130 |
| 1,2-Dibromoethane (EDB) | 96 | 70-130 |
| Ethyl Benzene | 113 | 70-130 |
| m,p-Xylene | 115 | 70-130 |
| o-Xylene | 115 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 83 | 70-130 |
| 1,4-Dichlorobenzene | 101 | 70-130 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

APPENDIX C

BEACON SAMPLING INSTRUCTION AND TECHNICAL MEMORANDUM



FIELD KIT GUIDE FOR COLLECTION OF SAMPLES USING SORBENT TUBES

[PLEASE READ ENTIRE GUIDE BEFORE STARTING SURVEY]

I. General Information

- A. BEACON is providing this sampling equipment to **CLIENT** for use on the **Site in City, State**. To meet project objectives, retrieve samples after a **## day exposure period**.
- B. ***Before going to the field*** take inventory of the shipment received by using the contents list to verify counts.
- C. As part of collection of the samples, **CLIENT** must complete the Chain-of-Custody Record and submit it with the Samples. Keep a copy for your records.
- D. When sampling is complete verify the caps on the Sorbent Tubes are tight, package the Sorbent Tubes securely in the bags provided, and put them in a sturdy box for return shipment to BEACON along with a copy of the Chain-of-Custody Record.

How to Properly tighten the brass caps on Sorbent Tubes:

Slide the brass cap onto the end of the tube and stop at the base of the brass plug. Finger-tighten the brass cap so it is secure, then use the disc wrench to tighten the brass cap by 1/8th of a turn.

Do not to over-tighten the brass cap — crimping the end of the tube will prevent a proper seal, damage the tube, and potentially ruin the sample. You should not be able to easily slide the caps off when properly tightened.

Send all sampling materials to:

Beacon Environmental Services, Inc.

Attn: Sample Receiving
2203A Commerce Rd Suite 1
Forest Hill, MD 21050 USA
1-410-838-8780

Replacement cost for Damaged or Lost Items: \$95 per Sorbent Tube, \$25 per Diffusion Cap, and \$50 for Disc Wrench Set.

NOTE: DO NOT PACK IN SHIPMENT BOX STYRENE PEANUTS, NEWSPAPER, OR OTHER MATERIALS THAT COULD CONTAMINATE THE SAMPLES. NO SMOKING BEFORE OR WHILE HANDLING SAMPLERS.

II. Contents

- A. Verify the inventory before sampling. **CLIENT** will be responsible for the replacement cost of any lost or damaged Sorbent Tubes, Diffusion Caps, or Disc Wrenches.

| <u>Code/Item</u> | <u>Quantity</u> |
|-------------------------|-----------------|
| (1) SORBENT TUBES | 10 |
| (2) RETURN SHIPMENT BAG | 2 |
| (3) DISC WRENCH SET | 1 |
| (4) DIFFUSION CAPS | 10 |

Sorbent Tube



Return Shipment Bag



Disc Wrench Set



Diffusion Cap



- B. In addition to the materials found in the kit, field teams will need:

- NITRILE GLOVES
- HEAVY STRING (to suspend tubes)
- BALL-POINT PEN and CLIPBOARD
- BUBBBLE WRAP (for return shipment)

III. Instructions

SAMPLE DEPLOYMENT

1. At each sampling location you will need one individual Sample Bag containing a sorbent tube, one diffusion cap, one disc wrench set, and a length of heavy string or wire. Write the sample location and installation date on the Sample Bag.



TO-17 Beacon Sorbent Tube



TUBE ID: 1066427

Install Date: 01/30/19 12:30

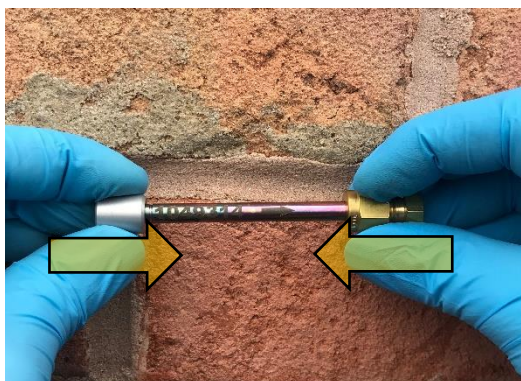
Retrieve Date:

Sample Location: Sample Location 1

- Remove the sorbent tube from the protective case and, using the disc wrenches, remove the brass cap with the **green sticker** from the end of the tube. This is the sampling end of the tube, which has one or more grooved rings near the end of the tube (***A sample may only be collected from this end of the tube***). Place the removed brass cap in the protective case, seal the case with the red cap, and store in the Sample Bag. Store the Sample Bag with the other samplers.



- Push the Diffusion Cap on the open end of the tube until it will not slide any farther. Then, tie heavy string (or wire) around the brass cap and suspend the tube so the diffusion cap faces down.



- On the Chain-of-Custody Record, record the following information: sample location ID, tube ID number (etched on side of each tube), starting date and time, and other relevant information such as temperature and sampling height.

| Location ID | Start Time | | Stop Time | | Interior Temp. (°F) | NIST traceable Thermometer ID: |
|-------------------|-----------------|--------------|-----------------|--------------|---------------------|--------------------------------|
| Tube ID | Date (mm/dd/yy) | Time (24 hr) | Date (mm/dd/yy) | Time (24 hr) | | |
| Sample Location 1 | 01/30/19 | 12:30 | | | 75 | |
| Tube ID ### | | | | | | |
| | | | | | | |

- Repeat steps 1 through 4 until all Sorbent Tubes have been deployed.

Note: If the teflon ferrule in the nut of the brass cap is stuck on the end of the tube pull it off using the slotted disc wrench. The entire cap MUST be removed to sample.

SAMPLE COLLECTION

1. At each location, you will need a Disc Wrench set, the Sample Bag that matches the Sorbent Tube being collected, and a Return Shipment bag.
2. Verify the Sample Bag matches the Sorbent Tube ID being collected and take the brass cap out of the Sample Bag and protective case and place it in reach for easy access. Write the retrieve date and time on the Sample Bag.



TO-17 Beacon Sorbent Tube



TUBE ID: 1066427

Install Date: 01/30/19 12:30

Retrieve Date: 02/13/19 09:45

Sample Location: Sample Location 1

3. Retrieve the Sorbent Tube, remove the Diffusion Cap, and slide the brass cap onto the end of the tube stopping at the base of the brass plug. Finger-tighten the brass cap so it is secure. Place the Diffusion Cap in the Sample Bag for return shipment to Beacon.
4. Use the disc wrenches to tighten the brass cap on the sorbent tube an additional 1/8th to 1/4 turn to ensure tightness. **Do not to over-tighten the brass cap** — crimping the end of the tube will prevent a proper seal, damage the tube, and potentially ruin the sample. You should not be able to easily slide the caps off when properly tightened.



5. Place the Sorbent Tube in the protective case and seal with the red cap. Verify the Sorbent Tube ID and place it into the Sample Bag with the Diffusion Cap. Place the Sample Bag into the Return Shipment bag
6. On the Chain-of-Custody, Write the date and time the sampling ended for each tube and other relevant information.

| Location ID | Start Time | | Stop Time | | Interior Temp. (°F) | NIST traceable Thermometer ID: |
|-------------------|-----------------|--------------|-----------------|--------------|---------------------|--------------------------------|
| Tube ID | Date (mm/dd/yy) | Time (24 hr) | Date (mm/dd/yy) | Time (24 hr) | | |
| Sample Location 1 | 01/30/19 | 12:30 | | | 75 | 4 ft from ground |
| Tube ID ### | | | 2/13/19 | 09:45 | 73 | |

7. Repeat steps 1 through 6 until all tubes have been collected, sealed, and bagged.
8. Complete the sampler name section on the Chain-of-Custody and sign in the appropriate location. Enclose the Chain-of-Custody with the samples and if possible retain a photocopy.
9. Package the tubes and other items in the Shipment box, seal the box, and then send the samples via Express courier to Beacon Environmental at the address noted on the first page.

TECHNICAL MEMORANDUM

Updated: February 19, 2020

ChloroSorber™ – The Passive Sampler to Target Chlorinated Compounds in Air – Vinyl Chloride to Tetrachloroethene

Background

Beacon provides passive sorbent samplers internationally to accurately and reliably target volatile organic compounds (VOCs) in the indoor and ambient air. Beacon can analyze sorbent samplers with various adsorbents depending on which compounds are of concern; however, the performance of a sorbent tube with a select adsorbent preferred by Beacon was evaluated in a robust study completed by the Health and Safety Laboratory (HSL) in the United Kingdom and the validated uptake rates from that study are used to target a range of chlorinated compounds from vinyl chloride to tetrachloroethene (PCE).

Other passive samplers are known to use inexpensive and inferior adsorbents that are not appropriate for vinyl chloride and possibly the other more volatile compounds, resulting in false positives and at a minimum biased low results.¹ The ChloroSorber™ provided by Beacon overcomes these challenges and concerns.

Sampling Method

The passive sorbent tube sampler consists of a 6mm o.d. stainless steel tube packed with adsorbent with a demonstrated affinity for the target compounds. The tubes are shipped to the

project site with Swagelok storage caps on both ends of the tubes. To sample air, the storage cap is removed from the sampling end of the tube and replaced with a diffusion cap that allows air to enter the tube and the VOCs present to be adsorbed onto the sorbent bed following the principles of diffusion. The sampler is suspended in the air by wire or string typically within the breathing zone. Following the sampling period, the diffusion cap is removed and replaced with the storage cap, which is tightened to be gas-tight for storage and transport. The sampler is returned to Beacon for analysis following analytical procedures described in U.S. EPA Method TO-17 and TO-15. The holding time from sample collection until analysis is 30 days.

Sampler Uptake Rates

In 2016, Beacon commissioned two consecutive studies at the Health and Safety Laboratory (HSL) in the United Kingdom. The studies set out to experimentally determine and validate the quantitative uptake rates of multiple passive samplers based on 7-, 14-, and 26-day exposure periods. Beacon Passive Samplers and sorbent tube samplers with various adsorbents were included in the studies.

The experiments were carried out in the HSL standard atmosphere generator based upon

procedures described in ISO 6145-4:2004². HSL is a renowned center of excellence for VOC sampling, and their methods for the determination of hazardous substances (MDHS) are the source of most of the published uptake rates in the relevant international standard methods (e.g., ISO 16017-2)³.

Quantitative uptake rates for 13 key chlorinated and aromatic VOCs were determined and verified for the passive samplers. In this six-replicate study, the devices showed excellent performance with great linearity and reproducibility. The uptake rates determined for the ChloroSorber to target chlorinated compounds from vinyl chloride to tetrachloroethene (PCE) are provided in **Table 1**.

Table 1: Validated Uptake Rates

| COMPOUND | Uptake Rate (ml/min) |
|--------------------------|----------------------|
| Vinyl Chloride | 0.56 |
| 1,1-Dichloroethene | 0.45 |
| trans-1,2-Dichloroethene | 0.70 |
| 1,1-Dichloroethane | 0.74 |
| cis-1,2-Dichloroethene | 0.70 |
| 1,2-Dichloroethane | 0.44 |
| Trichloroethene | 0.65 |
| Tetrachloroethene | 0.55 |

Analytical Method

The sorbent tube is analyzed using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation in accordance with the requirements of EPA Method TO-17 and TO-15. The masses measured of individual target compounds (in nanograms) are converted to a concentration (ug/m³) following the procedures and equations detailed in ISO 16017-2.

The equation below describes how the mass measured (nanograms) of individual compounds is multiplied by the dilution factor (if required), which is divided by the uptake rate (ml/min) and time of sample exposure (minutes) to calculate the time-weighted average concentration (ug/m³). Further, to provide the most accurate results, the uptake rates are corrected for the average temperature during the sampling period as compared to the average temperature when the uptake rates were verified during the HSL study.

The equations used to calculate the time-weighted average concentrations are provided below.

$$C = \frac{1000 \times M \times DF}{U_c \times t}$$

$$U_c = U \times \left(\frac{T_s + 273.15}{T_u + 273.15} \right)^{1/2}$$

Where: C = concentration (ug/m³)
M = mass (ng)
DF = dilution factor
U_c = uptake rate (ml/min), corrected
t = sampling time (minutes)
U = compound specific uptake rate
T_s = temperature – sampling period
T_u = temperature – uptake rate study

Table 2 provides the limits of quantitation (LOQs) for each of the chlorinated compounds with validated uptake rates based sampling periods from 8 hours to more than 3 weeks. The LOQ is at or above the low point of the initial calibration curve. In addition, results less than the LOQ but greater than the demonstrated limit of detection (LOD) may be reported as estimates and qualified with a “J” to achieve lower reporting limits.

Table 3 provides the limits of detection (LODs) for each of the chlorinated compounds. ■

Table 2: Limits of Quantitation (LOQs) based on Exposure Periods

| COMPOUND | CAS | Uptake Rate (ml/min) | 8 Hours | 1 Day | 3 Days | 7 Days | 14 Days | 26 Days |
|--------------------------|----------|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | | LOQ (ug/m ³) | LOQ (ug/m ³) | LOQ (ug/m ³) | LOQ (ug/m ³) | LOQ (ug/m ³) | LOQ (ug/m ³) |
| Vinyl Chloride | 75-01-4 | 0.56 | 1.86 | 0.62 | 0.21 | 0.09 | 0.044 | 0.024 |
| 1,1-Dichloroethene | 75-35-4 | 0.45 | 2.31 | 0.77 | 0.26 | 0.11 | 0.055 | 0.030 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.70 | 1.49 | 0.50 | 0.17 | 0.07 | 0.035 | 0.019 |
| 1,1-Dichloroethane | 75-34-3 | 0.74 | 1.41 | 0.47 | 0.16 | 0.07 | 0.034 | 0.018 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.70 | 1.49 | 0.50 | 0.17 | 0.07 | 0.035 | 0.019 |
| 1,2-Dichloroethane | 107-06-2 | 0.44 | 2.37 | 0.79 | 0.26 | 0.11 | 0.056 | 0.030 |
| Trichloroethene | 79-01-6 | 0.65 | 1.60 | 0.53 | 0.18 | 0.08 | 0.038 | 0.021 |
| Tetrachloroethene | 127-18-4 | 0.55 | 1.89 | 0.63 | 0.21 | 0.09 | 0.045 | 0.024 |

Table 3: Limits of Detection (LODs) based on Exposure Periods

| COMPOUND | CAS | Uptake Rate (ml/min) | 8 Hours | 1 Day | 3 Days | 7 Days | 14 Days | 26 Days |
|--------------------------|----------|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | | LOD (ug/m ³) | LOD (ug/m ³) | LOD (ug/m ³) | LOD (ug/m ³) | LOD (ug/m ³) | LOD (ug/m ³) |
| Vinyl Chloride | 75-01-4 | 0.56 | 0.74 | 0.25 | 0.08 | 0.04 | 0.018 | 0.010 |
| 1,1-Dichloroethene | 75-35-4 | 0.45 | 0.93 | 0.31 | 0.10 | 0.04 | 0.022 | 0.012 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.70 | 0.60 | 0.20 | 0.07 | 0.03 | 0.014 | 0.008 |
| 1,1-Dichloroethane | 75-34-3 | 0.74 | 0.56 | 0.19 | 0.06 | 0.03 | 0.013 | 0.007 |
| cis-1,2-Dichloroethene | 156-59-2 | 0.70 | 0.60 | 0.20 | 0.07 | 0.03 | 0.014 | 0.008 |
| 1,2-Dichloroethane | 107-06-2 | 0.44 | 0.95 | 0.32 | 0.11 | 0.05 | 0.023 | 0.012 |
| Trichloroethene | 79-01-6 | 0.65 | 0.64 | 0.21 | 0.07 | 0.03 | 0.015 | 0.008 |
| Tetrachloroethene | 127-18-4 | 0.55 | 0.76 | 0.25 | 0.08 | 0.04 | 0.018 | 0.010 |

¹ Karstoft, J., Mortensen, P. Measurement for Vinyl Chloride in Indoor Climate. NIRAS/Region Midtjylland, Denmark. November 13, 2018.

² ISO 6145-4:2004 Gas analysis — Preparation of calibration gas mixtures using dynamic volumetric methods — Part 4: Continuous syringe injection method

³ ISO 16017-2, Indoor, ambient and workplace air – Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography – Part 2: Diffusive Sampling, 2003.

ATTACHMENT 2

VICINITY AND SITE MAP WITH LEGAL DESCRIPTION

**LEGAL DESCRIPTION - RESERVED
DEVELOPMENT RIGHTS AREA (RDR AREA)**

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising all of Tract 5, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and being more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid Bearings (Central Zone - NAD 83) and ground distances as follows:

Beginning at the Southeast corner of the parcel herein described, said point being the Southwest corner of Tract 4, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and also being on the Northerly boundary line of The Presidio, Unit 2, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on June 7, 2007, in Volume 2007C, Folio 158, from whence the Albuquerque Control Survey Station "14-J22" bears N 46°31'34" E, 4247.26 feet distant; Thence along said Northerly boundary line of The Presidio, Unit 2, for the following seven (7) courses,

N 89°46'13" W, 131.86 feet to a point; Thence,
S 00°13'47" W, 130.00 feet to a point; Thence,
N 89°46'13" W, 696.06 feet to a point; Thence,
N 00°13'47" E, 20.00 feet to a point; Thence,
N 89°46'13" W, 85.15 feet to a point of curvature; Thence,

Southwesterly, 157.07 feet on the arc of a curve to the left (said curve having a radius of 100.00 feet, a central angle of 89°59'38" and a chord which bears S45°13'58" W, 141.41 feet) to a point of tangency; Thence,

S 00°14°09" W, 275.32 feet to a point, said point being on the Northerly boundary line of Lot 4A, Towne Park Plaza, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on January 29, 2001, in Volume 2001C, Folio 36; Thence,

N 89°45'30" W, 96.00 feet along said Northerly boundary line of said Lot 4A, Towne Park Plaza, to the Southwest corner of the parcel herein described, said point being the Northwest corner of said Lot 4A, Towne Park Plaza, and also being on the Easterly boundary line of Tract B-3A-1, Towne Park Plaza, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on January 29, 2001, in Volume 2001C, Folio 36; Thence,

N 00°14°09" E, 395.29 feet to a point, said point being on the Westerly boundary line of Tract B-2A-1, Towne Park Plaza, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on July 9, 2003, in Volume 2003C, Folio 204, and also being a point on the Southerly boundary line of Tract B-1A-1, Towne Park Plaza, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on July 9, 2003, in Volume 2003C, Folio 204; Thence,

S 89°46'13" E, 162.51 feet along said Southerly boundary line of Tract B-1A-1, Towne Park Plaza, to a point, said point being the Southeast corner of said Tract B-1A-1, Towne Park Plaza; Thence along the Easterly boundary line of said Tract B-1A-1, Towne Park Plaza, for the following eight (8) courses,

N 00°13'34" E, 78.04 feet to a point of curvature; Thence,
Northeasterly, 19.64 feet on the arc of a curve to the right (said curve having a radius of 38.00 feet, a central angle of 29°36'52" and a chord which bears N15°02'00" E, 19.42 feet) to a point of reverse curvature; Thence,

Northeasterly, 25.83 feet on the arc of a curve to the left (said curve having a radius of 50.00 feet, a central angle of 29°35'47" and a chord which bears N15°02'33" E, 25.54 feet) to a point of tangency; Thence,

N 00°14'39" E, 71.73 feet to a point; Thence,
S 89°45'30" E, 63.93 feet to a point; Thence,

N 00°14'39" E, 294.21 feet to a point; Thence,
N 89°45'21" W, 109.92 feet to a point on curve; Thence,

Northeasterly, 48.05 feet on the arc of a curve to the left (said curve having a radius of 538.59 feet, a central angle of 05°06'42" and a chord which bears N16°47'39" E, 48.04 feet) to a point of non-tangent compound curvature and Northwest corner of the parcel herein described, said point being on the Westerly boundary line of Tract 1, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224; Thence along the Southerly boundary line of said Tract 1, Copper Pointe Subdivision, for the following six (6) courses,

Southeasterly, 45.38 feet on the arc of a curve to the left (said curve having a radius of 25.00 feet, a central angle of 103°59'39" and a chord which bears S37°45'31" E, 39.40 feet) to a point of tangency; Thence,

S 89°45'21" E, 47.35 feet to a point of curvature; Thence,

Northeasterly, 17.47 feet on the arc of a curve to the left (said curve having a radius of 15.00 feet, a central angle of 66°44'04" and a chord which bears N56°52'37" E, 16.50 feet) to a point of tangency; Thence,

N 04°22'54" E, 105.27 feet to a point of curvature; Thence,

Northeasterly, 44.93 feet on the arc of a curve to the right (said curve having a radius of 30.00 feet, a central angle of 85°48'09" and a chord which bears N47°16'59" E, 40.84 feet) to a point of tangency; Thence,

S 89°48'57" E, 269.13 feet to a point, said point being the Southeast corner of said Tract 1, Copper Pointe Subdivision; Thence along the Easterly boundary line of said Tract 1, Copper Pointe Subdivision, for the following two (2) courses,

N 00°11'03" E, 38.00 feet to a point; Thence,

N 24°57'56" E, 12.83 feet to a point, said point being on the Southerly boundary line of said Tract 4, Copper Pointe Subdivision; Thence along said Southerly boundary line of said Tract 4, Copper Pointe Subdivision, for the following three (3) courses,

S 84°51'04" E, 545.44 feet to a point of curvature; Thence,
Southeasterly, 147.66 feet on the arc of a curve to the right (said curve having a radius of 130.00 feet, a central angle of 65°04'51" and a chord which bears S32°18'38" E, 139.85 feet) to a point of tangency; Thence,

S 00°13'47" W, 256.48 feet to the point of beginning of the parcel herein described.

Said parcel contains 13.5261 acres gross (589,197 square feet gross), more or less.

LESS AND EXCEPT

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the land encompassed by the ground level exterior face of the building known as Copper Pointe Condominium, being a portion of Tract 5, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and being more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid Bearings (Central Zone - NAD 83) and ground distances rounded to one tenth of a foot as follows:

Beginning at the Southeast corner of the parcel herein described, from whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears N 87°09'44" E, 323.88 feet distant; Thence,

N 89°46'29" W, 503.8 feet to a point; Thence,
S 00°12'23" W, 39.7 feet to a point; Thence,
N 89°44'31" W, 78.8 feet to the Southwest corner of the parcel herein described; Thence,

N 00°16'27" E, 62.9 feet to a point; Thence,
S 89°45'37" E, 77.0 feet to a point; Thence,
N 00°12'23" E, 139.7 feet to a point; Thence,
S 89°47'37" E, 20.7 feet to a point; Thence,
N 00°03'44" E, 9.5 feet to a point; Thence,

S 89°47'37" E, 0.8 feet to a point; Thence,
N 00°03'44" E, 23.3 feet to a point; Thence,
S 89°56'16" E, 0.8 feet to a point; Thence,
N 00°03'44" E, 5.2 feet to a point; Thence,

N 89°56'16" W, 21.2 feet to a point; Thence,
N 00°17'59" E, 79.3 feet to a point; Thence,
S 89°42°01" E, 0.5 feet to a point; Thence,
N 00°08'39" E, 86.3 feet to the Northwest corner of the parcel herein described; Thence,

S 89°45'40" E, 86.4 feet to a point; Thence,
S 00°22°00" W, 1.3 feet to a point; Thence,
S 89°38°00" E, 18.8 feet to a point; Thence,
S 00°08'22" W, 21.4 feet to a point; Thence,

S 89°39°11" E, 12.8 feet to a point; Thence,
S 00°08'22" W, 0.8 feet to a point; Thence,
S 89°39°11" E, 32.6 feet to a point; Thence,
N 00°20'49" E, 22.3 feet to a point; Thence,

S 89°39°11" E, 18.8 feet to a point; Thence,
N 00°20'49" E, 1.5 feet to a point; Thence,
S 89°39°11" E, 85.4 feet to a point; Thence,
S 89°26°53" E, 48.4 feet to a point; Thence,

N 00°14'42" E, 0.7 feet to a point; Thence,
S 89°45'18" E, 2.0 feet to a point; Thence,
S 00°14'42" W, 0.7 feet to a point; Thence,
S 89°45'18" E, 49.5 feet to a point; Thence,

N 00°14'42" E, 0.7 feet to a point; Thence,
S 89°45'18" E, 2.0 feet to a point; Thence,
S 00°14'42" W, 0.7 feet to a point; Thence,
S 89°45'18" E, 48.0 feet to a point; Thence,

N 00°14'42" E, 0.7 feet to a point; Thence,
S 89°45'18" E, 2.0 feet to a point; Thence,
S 00°14'42" W, 0.7 feet to a point; Thence,
S 89°45'18" E, 48.0 feet to a point; Thence,

N 00°14'42" E, 0.7 feet to a point; Thence,
S 89°45'18" E, 2.0 feet to a point; Thence,
S 00°14'42" W, 0.7 feet to a point; Thence,
S 89°45'18" E, 1.2 feet to a point; Thence,

S 00°14'42" W, 7.1 feet to a point; Thence,
S 89°45'18" E, 0.9 feet to a point; Thence,
S 52°24'50" E, 12.4 feet to a point; Thence,
S 37°35'10" W, 0.6 feet to a point; Thence,

S 52°24'50" E, 28.1 feet to a point; Thence,
N 37°35'10" E, 0.6 feet to a point; Thence,
S 52°24'50" E, 12.3 feet to a point; Thence,
S 22°38'08" E, 0.6 feet to a point; Thence,

S 89°47'29" E, 6.6 feet to a point; Thence,
S 00°21'43" W, 1.2 feet to a point; Thence,
S 89°38'17" E, 0.7 feet to a point; Thence,
S 00°21'43" W, 2.0 feet to a point; Thence,

N 89°38'17" W, 0.7 feet to a point; Thence,
S 00°21'43" W, 39.5 feet to a point; Thence,
S 89°38'17" E, 0.7 feet to a point; Thence,
S 00°21'43" W, 2.0 feet to a point; Thence,

N 89°38'17" W, 0.7 feet to a point; Thence,
S 00°21'43" W, 38.1 feet to a point; Thence,
S 89°38'17" E, 0.7 feet to a point; Thence,

S 00°21'43" W, 2.0 feet to a point; Thence,

N 89°38'17" W, 0.7 feet to a point; Thence,

S 00°21'43" W, 1.2 feet to a point; Thence,

N 89°41'03" W, 21.8 feet to a point; Thence,

S 00°12'42" W, 3.0 feet to a point; Thence,

N 89°41'03" W, 0.7 feet to a point; Thence,

S 00°12'42" W, 28.0 feet to a point; Thence,

S 89°43'35" E, 0.7 feet to a point; Thence,

S 00°12'42" W, 3.1 feet to a point; Thence,

S 89°43'35" E, 21.8 feet to a point; Thence,

S 00°17'14" W, 1.3 feet to a point; Thence,

S 89°42'46" E, 0.7 feet to a point; Thence,

S 00°17'14" W, 2.0 feet to a point; Thence,

N 89°42'46" W, 0.7 feet to a point; Thence,

S 00°17'14" W, 40.1 feet to a point; Thence,

S 89°42'46" E, 0.5 feet to a point; Thence,

S 00°11'56" W, 25.6 feet to a point; Thence,

N 89°48'04" W, 1.5 feet to a point; Thence,

S 00°11'56" W, 115.2 feet to a point; Thence,

S 89°46'43" E, 0.4 feet to a point; Thence,

S 00°13'17" W, 22.3 feet to the point of beginning of the parcel herein described.

Said parcel contains 4.2804 acres (186,454 square feet), more or less.

LESS THAN EXCEPTING THE FOLLOWING DESCRIBED PARCEL:

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the land containing the volley ball courts for Units D and G being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof, filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and being more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid Bearings (Central Zone - NAD 83) and ground distances as follows:

Beginning at the Southeast corner of the parcel herein described, whence the Southeast corner of said Tract 5, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and also being an angle point in the Northerly boundary line of The Presidio, Unit 2, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on June 7, 2007, in Volume 2007C, Folio 158 bears S 86° 18' 51" E, 596.31 feet distant; Thence,

N 89° 48' 48" W , 84.00 feet to the Southwest corner of the parcel herein described; Thence,

N 00° 11' 12" E , 72.00 feet to the Northwest corner of the parcel herein described; Thence,

S 89° 48' 48" E , 98.00 feet to the Northeast corner of the parcel herein described; Thence,

S 00° 11' 12" W , 14.00 feet to a point; Thence,

N 89° 48' 48" W , 14.00 feet to a point; Thence,

S 00° 11' 12" W , 58.00 feet to the point of beginning of the parcel herein described.

Said parcel contains 0.1433 acres (6,242 square feet), more or less.

AND LESS THAN EXCEPTING THE FOLLOWING DESCRIBED PARCEL:

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the land containing the parking area north of the existing building, being a Northerly portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof, filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and being more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Southwest corner of the parcel herein described, a point on the Westerly line of said Tract 5 whence the Southeast corner of said Tract 5, Copper Pointe Subdivision, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on October 10, 2008, in Volume 2008C, Folio 224, and also being an angle point in the Northerly boundary line of The Presidio, Unit 2, as the same is shown and designated on said plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico, on June 7, 2007, in Volume 2007C, Folio 158 bears S 56° 47' 25" E, 861.18 feet distant; Thence,

N 00° 14' 38" E , 47.82 feet to a point; Thence,

N 89° 45' 21" W , 109.92 feet to a non-tangent point on curve; Thence,

Northeasterly , 48.05 feet on the arc of a curve to the left (said curve having a radius of 538.59 feet, a central angle of 05° 06' 42" and a chord which bears N 16° 47' 39" E, 48.04 feet) to a point of non-tangent compound curvature; Thence,

Southeasterly , 45.38 feet on the arc of a curve to the left (said curve having a radius of 25.00 feet, a central angle of 103° 59' 39" and a chord which bears S 37° 45' 31" E, 39.40 feet) to a point of tangency; Thence,

S 89° 45' 21" E , 47.35 feet to a point of curvature; Thence,

Northeasterly , 17.47 feet on the arc of a curve to the left (said curve having a radius of 15.00 feet, a central angle of 66° 44' 04" and a chord which bears N 56° 52' 37" E, 16.50 feet) to a point of tangency; Thence,

N 04° 22' 54" E , 105.27 feet to a point to a point of curvature; Thence,

Northeasterly , 44.93 feet on the arc of a curve to the right (said curve having a radius of 30.00 feet, a central angle of 85° 48' 09" and a chord which bears N 47° 16' 59" E, 40.84 feet) to a point of tangency; Thence,

S 89° 48' 57" E , 269.13 feet to a point; Thence,

N 00° 11' 03" E , 38.00 feet to a point; Thence,

FIRST AMENDMENT TO
AMENDED AND RESTATED CONDOMINIUM PLAT OF
COPPER POINTE CONDOMINIUM
COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
SITUATE WITHIN
SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

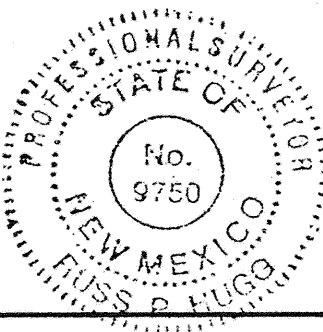
N 24° 57' 56" E , 12.83 feet to a point; Thence,
S 84° 51' 04" E , 545.44 feet to a point; Thence,
Southeasterly , 44.15 feet on the arc of a curve to the right (said curve having a radius of 130.00 feet, a central angle of 19° 27' 41" and a chord which bears S 55° 07' 13" E, 43.94 feet) to a non-tangent point on curve and the Southeast corner of the parcel herein described; Thence,
N 89° 45' 18" W , 831.97 feet to the point of beginning of the parcel herein described.

Said parcel contains 3.0812 acres (134,218 square feet), more or less.

The Reserved Development Rights Area as described above now contains 6.0212 acres net (262,283 square feet net).

RESERVED DEVELOPMENT RIGHTS

- Right to subdivide any Unit created into additional Units of a size less than the Minimum Unit Size (as defined in the Restated Condominium Declaration), with or without appurtenant Limited Common Elements.
- Right to create Units by combining Units owned by Declarant by relocation of Unit boundaries between existing Units.
- Right to convert any Unit previously created into Common Elements.
- Right to create an additional five (5) Units on the Condominium Property, within portions of the building located on the Condominium Property owned by Declarant and identified on the Plat and Plans attached as RDR Lower Level Area, with or without appurtenant Limited Common Elements and Common Elements.
- Right to create on all or a portion of the Real Estate described as RDR Area up to five (5) additional Units.
- Right to create on all or a portion of the Real Estate described as RDR Walkway Area up to five (5) additional Units to be combined with Unit F or Unit G, or both Unit F and Unit G.
- Right to create an additional five (5) Units on the Condominium Property, within portions of the building located on the Condominium Property owned by Declarant and identified on the Plat and Plans attached as RDR Upper Level Area, with or without appurtenant Limited Common Elements and Common Elements.
- Right to create Common Elements to be used for storage or other uses within any portion of the Condominium Property.
- Right to withdraw all or a portion of the Real Estate described as RDR Area from the Condominium.
- Right to add all or any portion of the real property known as "Tract 1", "Tract 2", "Tract 3" and "Tract 4" as shown on the plat of survey titled: "COPPER POINTE SUBDIVISION (Being a Replat of Tract B, The Presidio), situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico . . .", filed in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008, in Book 2008C, Page 0224, as Document No. 2008111348 to the Condominium and to create up to twenty-five (25) additional Units or create Common Elements or Limited Common Elements or any combination thereof.
- Right to make improvements in any Limited Common Element in the form of the construction of portals, patios, walls, fences, storage facilities or areas and other improvements.



SHEET 2 OF 12

SURV TEK, INC.

Consulting Surveyors

9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377

Phone: 505-897-3386

FIRST AMENDMENT TO
AMENDED AND RESTATED CONDOMINIUM PLAT OF
COPPER POINTE CONDOMINIUM
COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
SITUATE WITHIN
SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

LEGAL DESCRIPTION

RESERVED DEVELOPMENT RIGHTS AREA (RDR WALKWAY AREA)

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the area containing the Second Story Walkway adjacent to and South of Unit F, being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008 in Volume 2008C, Folio 224 more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Northeast corner of the parcel herein described, said point being a point on the Southerly line of said Unit F whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears S 55° 56' 15" E, 710.84 feet distant; Thence,

S 00° 25' 00" W , 6.3 feet to a point; Thence,
N 89° 56' 38" W , 47.9 feet to a point; Thence,
S 00° 11' 15" W , 89.9 feet to a point; Thence,
N 89° 56' 16" W , 6.2 feet to a point; Thence,
N 00° 10' 03" E , 1.0 feet to a point; Thence,
N 89° 49' 58" W , 5.3 feet to a point; Thence,
N 00° 10' 03" E , 8.6 feet to a point; Thence,
S 89° 49' 56" E , 4.7 feet to a point; Thence,
N 00° 10' 03" E , 6.0 feet to a point; Thence,
N 00° 11' 15" E , 80.6 feet to a point; Thence,

S 89° 52' 23" E , 54.67 feet to to the point of beginning of the parcel herein described.

Said parcel contains 992 square feet, more or less.

LEGAL DESCRIPTION

RESERVED DEVELOPMENT RIGHTS AREA (RDR LOWER LEVEL AREA)

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the First Floor Area lying between Units J, I and D-1, being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008 in Volume 2008C, Folio 224 more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Northwest corner of said Unit A-1 also being the Northeast corner of said Unit J whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears S 48° 44' 46" E, 529.44 feet distant; Thence,

S 89° 45' 18" E , 26.0 feet to a point; Thence,
S 00° 14' 42" W , 6.9 feet to a point; Thence,
S 89° 45' 18" E , 1.3 feet to a point; Thence,
S 52° 24' 50" E , 12.0 feet to a point; Thence,
N 37° 35' 10" E , 0.2 feet to a point; Thence,
S 52° 24' 50" E , 28.1 feet to a point; Thence,
S 37° 35' 10" W , 0.2 feet to a point; Thence,
S 52° 24' 50" E , 12.0 feet to a point; Thence,
S 22° 38' 08" E , 0.7 feet to a point; Thence,
S 89° 47' 29" E , 6.1 feet to a point; Thence,
S 00° 21' 43" W , 84.4 feet to a point; Thence,
S 00° 12' 42" W , 3.8 feet to a point; Thence,
S 89° 41' 03" E , 0.4 feet to a point; Thence,
S 00° 12' 42" W , 28.0 feet to a point; Thence,
N 89° 43' 55" W , 0.4 feet to a point; Thence,
S 00° 12' 42" W , 3.9 feet to a point; Thence,
S 89° 43' 35" E , 22.0 feet to a point; Thence,
S 00° 17' 14" W , 41.7 feet to a point; Thence,
N 89° 45' 48" W , 125.2 feet to a point; Thence,
S 00° 14' 12" W , 19.5 feet to a point; Thence,
N 89° 45' 48" W , 28.3 feet to a point; Thence,
S 00° 14' 12" W , 62.7 feet to a point; Thence,
S 89° 45' 48" E , 24.1 feet to a point; Thence,
S 00° 14' 12" W , 80.0 feet to a point; Thence,
N 89° 46' 29" W , 80.0 feet to a point; Thence,
N 00° 14' 29" E , 102.1 feet to a point; Thence,
N 40° 46' 17" W , 16.6 feet to a point; Thence,
N 00° 14' 29" E , 47.0 feet to a point; Thence,
S 89° 45' 31" E , 76.3 feet to a point; Thence,
N 00° 14' 29" E , 89.5 feet to a point; Thence,
S 89° 45' 31" E , 43.9 feet to a point; Thence,
N 00° 14' 29" E , 57.2 feet to a point; Thence,
S 89° 45' 31" E , 26.0 feet to a point; Thence,
N 00° 14' 29" E , 54.8 feet to a point; Thence,

S 89° 45' 18" E , 26.0 feet to the point of beginning of the parcel herein described.

Said parcel contains 33,011 square feet, more or less.

LEGAL DESCRIPTION

RESERVED DEVELOPMENT RIGHTS AREA (RDR UPPER LEVEL AREA)

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the Second Floor Area lying between Units J and I, being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008 in Volume 2008C, Folio 224 more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Northwest corner of said Unit A-1 also being the Northeast corner of said Unit J whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears S 48° 44' 46" E, 529.44 feet distant; Thence,

S 89° 45' 18" E , 26.0 feet to a point; Thence,
S 00° 14' 42" W , 6.9 feet to a point; Thence,
S 89° 45' 18" E , 1.3 feet to a point; Thence,
S 52° 24' 50" E , 12.0 feet to a point; Thence,
N 37° 35' 10" E , 0.2 feet to a point; Thence,
S 52° 24' 50" E , 28.1 feet to a point; Thence,
S 37° 35' 10" W , 0.2 feet to a point; Thence,
S 52° 24' 50" E , 12.0 feet to a point; Thence,
S 22° 38' 08" E , 0.7 feet to a point; Thence,
S 89° 47' 29" E , 6.1 feet to a point; Thence,
S 00° 21' 43" W , 84.4 feet to a point; Thence,
N 89° 41' 03" W , 21.9 feet to a point; Thence,
S 00° 12' 42" W , 3.8 feet to a point; Thence,
S 89° 41' 03" E , 0.4 feet to a point; Thence,
S 00° 12' 42" W , 28.0 feet to a point; Thence,
N 89° 43' 55" W , 0.4 feet to a point; Thence,
S 00° 12' 42" W , 3.9 feet to a point; Thence,
S 89° 43' 35" E , 21.9 feet to a point; Thence,
S 00° 17' 14" W , 41.7 feet to a point; Thence,
N 89° 45' 48" W , 93.6 feet to a point; Thence,
S 00° 14' 12" W , 15.5 feet to a point; Thence,
N 89° 45' 48" W , 7.5 feet to a point; Thence,
N 00° 14' 12" E , 15.5 feet to a point; Thence,
S 89° 45' 48" E , 43.6 feet to a point; Thence,
N 00° 14' 29" E , 89.5 feet to a point; Thence,
S 89° 45' 31" E , 43.9 feet to a point; Thence,
N 00° 14' 29" E , 57.2 feet to a point; Thence,
S 89° 45' 31" E , 26.0 feet to a point; Thence,
N 00° 14' 29" E , 54.8 feet to the point of beginning of the parcel herein described.

Said parcel contains 21,023 square feet, more or less.

AND

That certain parcel of land situate within Section 21, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, comprising the Second Floor Area lying between Units D-1 and I and South of Unit J, being a portion of Tract 5, Copper Pointe Subdivision as the same is shown and designated on the plat thereof filed for record in the office of the County Clerk of Bernalillo County, New Mexico on October 10, 2008 in Volume 2008C, Folio 224 more particularly described by survey performed by Russ P. Hugg, New Mexico Professional Surveyor Number 9750 using New Mexico State Plane Grid bearings and ground distances as follows:

Beginning at the Southeast corner of said Unit A-1 whence the Southeast corner of said Tract 5, Copper Pointe Subdivision bears S 87° 28' 50" E, 325.90 feet distant; Thence,

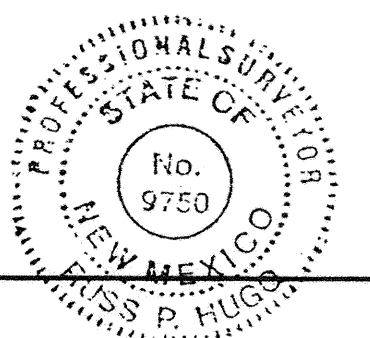
N 89° 46' 29" W , 226.4 feet to a point; Thence,
N 00° 10' 03" E , 23.5 feet to a point; Thence,
N 44° 49' 57" W , 11.6 feet to a point; Thence,
N 45° 10' 03" E , 15.7 feet to a point; Thence,
S 89° 49' 57" E , 8.0 feet to a point; Thence,
N 00° 10' 03" E , 57.7 feet to a point; Thence,
N 40° 50' 43" W , 18.2 feet to a point; Thence,
N 00° 10' 03" E , 47.3 feet to a point; Thence,
S 89° 45' 31" E , 84.0 feet to a point; Thence,
S 00° 14' 12" W , 81.4 feet to a point; Thence,
S 89° 45' 48" E , 24.1 feet to a point; Thence,
S 00° 14' 12" W , 4.8 feet to a point; Thence,
N 89° 45' 48" W , 5.7 feet to a point; Thence,
S 00° 14' 12" W , 20.5 feet to a point; Thence,
S 89° 45' 48" E , 5.7 feet to a point; Thence,
S 00° 14' 12" W , 22.5 feet to a point; Thence,
S 89° 45' 48" E , 42.2 feet to a point; Thence,
N 00° 14' 12" E , 1.8 feet to a point; Thence,
S 89° 45' 48" E , 35.1 feet to a point; Thence,
N 00° 14' 12" E , 7.8 feet to a point; Thence,
S 89° 45' 48" E , 15.5 feet to a point; Thence,
N 00° 14' 12" E , 33.3 feet to a point; Thence,
N 89° 45' 48" W , 65.5 feet to a point; Thence,
N 00° 14' 12" E , 5.0 feet to a point; Thence,
S 89° 45' 48" E , 100.8 feet to a point; Thence,
S 00° 11' 56" W , 80.2 feet to the point of beginning of the parcel herein described.

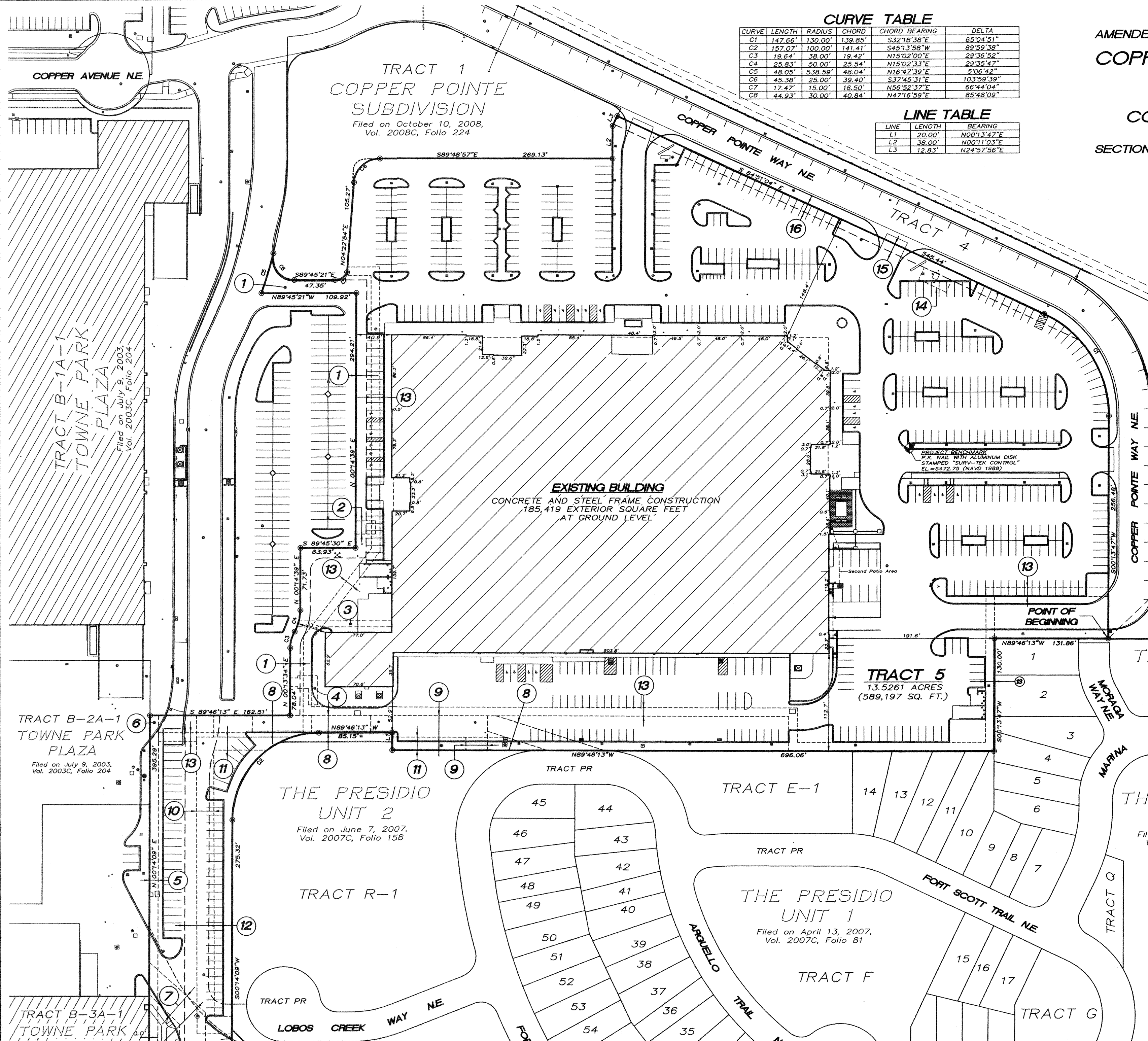
Said parcel contains 19,804 square feet, more or less.

SHEET 3 OF 12

SURV  **TEK, INC.**

Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377
Phone: 505-897-3366





| CURVE TABLE | | | | | |
|-------------|---------|---------|---------|---------------|------------|
| CURVE | LENGTH | RADIUS | CHORD | CHORD BEARING | DELTA |
| C1 | 147.66' | 130.00' | 139.85' | S32°18'38"E | 65°04'51" |
| C2 | 157.07' | 100.00' | 141.41' | S45°13'58"W | 89°59'38" |
| C3 | 19.64' | 38.00' | 19.42' | N15°02'00"E | 29°36'52" |
| C4 | 28.83' | 50.00' | 28.54' | N15°02'33"E | 29°35'47" |
| C5 | 48.05' | 538.59' | 48.04' | N16°47'39"E | 5°06'42" |
| C6 | 48.38' | 25.00' | 39.40' | S37°45'31"E | 103°59'39" |
| C7 | 17.47' | 15.00' | 16.50' | N56°52'37"E | 66°44'04" |
| C8 | 44.93' | 30.00' | 40.84' | N47°16'59"E | 85°48'09" |

| LINE TABLE | | |
|------------|--------|-------------|
| LINE | LENGTH | BEARING |
| L1 | 20.00' | N00°13'47"E |
| L2 | 38.00' | N00°11'03"E |
| L3 | 12.83' | N24°57'56"E |

FIRST AMENDMENT TO
AMENDED AND RESTATED CONDOMINIUM PLAT OF
COPPER POINTE CONDOMINIUM
COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
SITUATE WITHIN
SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

NOTE
THE LAND AND CONDOMINIUM BUILDING ARE
SUBJECT TO THE DEVELOPMENT RIGHTS AS
SET FORTH IN THE RESTATED CONDOMINIUM
DECLARATION.

ALBUQUERQUE CONTROL SURVEY
STATION "14-J22"
N.M. State Plane Coordinates
(Central Zone - NAD 83)
X=1,561,191.226
Y=1,487,017.690
Delta Alpha = -00°09'08.03"
Ground to Grid Factor = 0.999644295
Elevation = 5576.441 (NAVD 1988)

COPPER POINTE SUBDIVISION
Filed on October 10, 2008,
Vol. 2008C, Folio 224

THE PRESIDIO UNIT 2 TRACT H-1
Filed on June 7, 2007,
Vol. 2007C, Folio 158

THE PRESIDIO UNIT 1
Filed on April 13, 2007,
Vol. 2007C, Folio 81

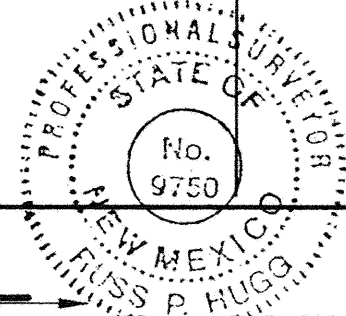
SITE INFORMATION

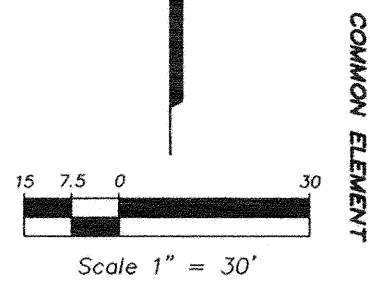
SEE SHEET 1 FOR KEYED EASEMENT INFORMATION

SHEET 4 OF 12

SURV+TEK, INC.

Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377





| LINE TABLE | | |
|------------|--------|-------------|
| LINE | LENGTH | BEARING |
| L1 | 4.0 | N00°16'11"E |
| L2 | 0.1 | S89°56'39"E |
| L3 | 5.6 | N00°01'05"E |
| L4 | 51.6 | S89°49'52"E |
| L5 | 10.2 | N89°58'19"E |
| L6 | 10.5 | S00°15'03"W |
| L7 | 9.3 | S89°44'57"E |
| L8 | 8.9 | S00°15'03"W |
| L9 | 15.6 | S89°36'43"E |
| L10 | 5.7 | N00°15'03"E |
| L11 | 15.8 | S89°44'52"E |
| L12 | 13.4 | N00°14'52"E |
| L13 | 6.3 | S00°11'45"W |
| L14 | 33.8 | S89°56'14"E |
| L15 | 9.5 | S89°51'38"E |
| L16 | 0.4 | N00°17'08"E |
| L17 | 33.7 | S89°51'38"E |
| L18 | 0.4 | S00°28'07"W |
| L19 | 6.0 | S89°51'38"E |
| L20 | 12.6 | N89°49'52"W |
| L21 | 18.8 | S45°10'03"W |
| L22 | 18.2 | S40°50'43"E |
| L23 | 57.7 | S00°10'03"W |
| L24 | 8.0 | N89°49'52"W |
| L25 | 15.7 | S45°10'03"W |
| L26 | 11.6 | S44°49'52"E |
| L27 | 23.5 | S00°10'03"W |
| L28 | 28.3 | N89°45'48"W |
| L29 | 19.5 | S00°14'12"W |
| L30 | 2.0 | S00°17'14"W |
| L31 | 48.9 | S89°49'52"E |
| L32 | 26.0 | S89°45'16"E |
| L33 | 6.9 | S00°14'42"W |
| L34 | 1.3 | S89°45'18"E |
| L35 | 12.0 | S89°45'18"E |
| L36 | 0.2 | S32°35'10"E |
| L37 | 28.1 | S89°45'18"E |
| L38 | 0.2 | S32°35'10"W |
| L39 | 12.0 | S89°45'18"E |
| L40 | 0.7 | S22°38'08"E |
| L41 | 6.1 | S89°47'29"E |
| L42 | 41.7 | S00°17'14"W |
| L43 | 16.6 | N40°46'17"W |

COMMON ELEMENT

UNIT C

Amended and Restated Condominium Plat of Copper Pointe Condominium filed in the office of the County Clerk of Bernalillo County, New Mexico on July 27, 2010 as Doc. # 2010075208.

COMMON ELEMENT

COMMON ELEMENT

UNIT J

20,828 INTERIOR SQUARE FEET
Ceiling Height=17'-6"

UNIT A-1

33,011 INTERIOR SQUARE FEET
Ceiling Height=19'-6"

UNIT D-1

61,627 INTERIOR SQUARE FEET
Ceiling Height=25'-1"

UNIT E

UNIT I

22,269 INTERIOR SQUARE FEET
Ceiling Height=10'-0"

UNIT A-1

33,011 INTERIOR SQUARE FEET
Ceiling Height=25'-1"

NOTE

All areas of the condominium not specifically identified as a unit constitute common elements subject to the development rights described in the Restated Condominium Declaration.

COMMON ELEMENT

UNIT B

COMMON ELEMENT

LIMITED COMMON ELEMENT
(LCE FOR UNITS D-1 AND G)
See Sheet 9 for detail

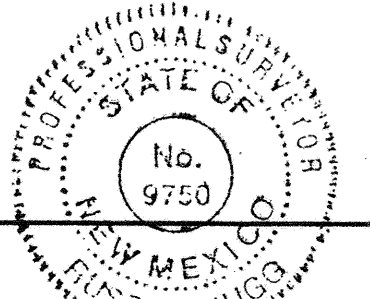
FIRST AMENDMENT TO
AMENDED AND RESTATED CONDOMINIUM PLAT OF
COPPER POINTE CONDOMINIUM
COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
SITUATE WITHIN
SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

FIRST FLOOR UNIT INFORMATION

SHEET 5 OF 12

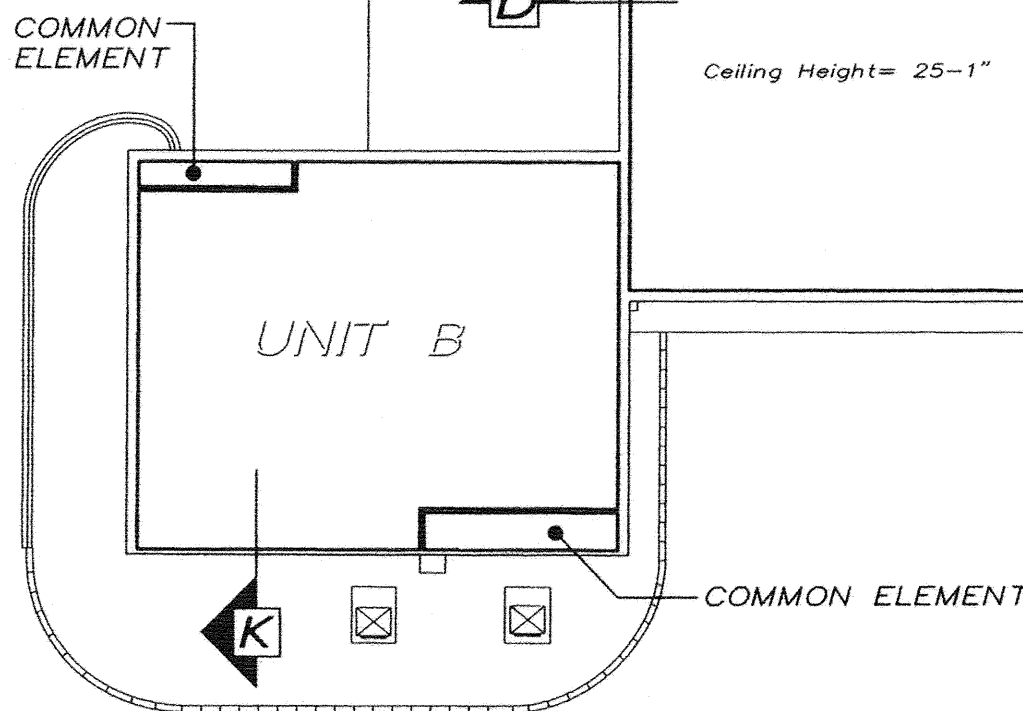
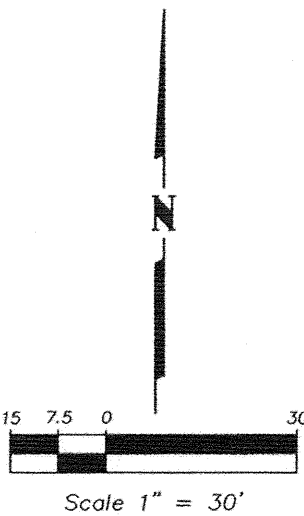
SURV+TEK, INC.
Consulting Surveyors

9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377



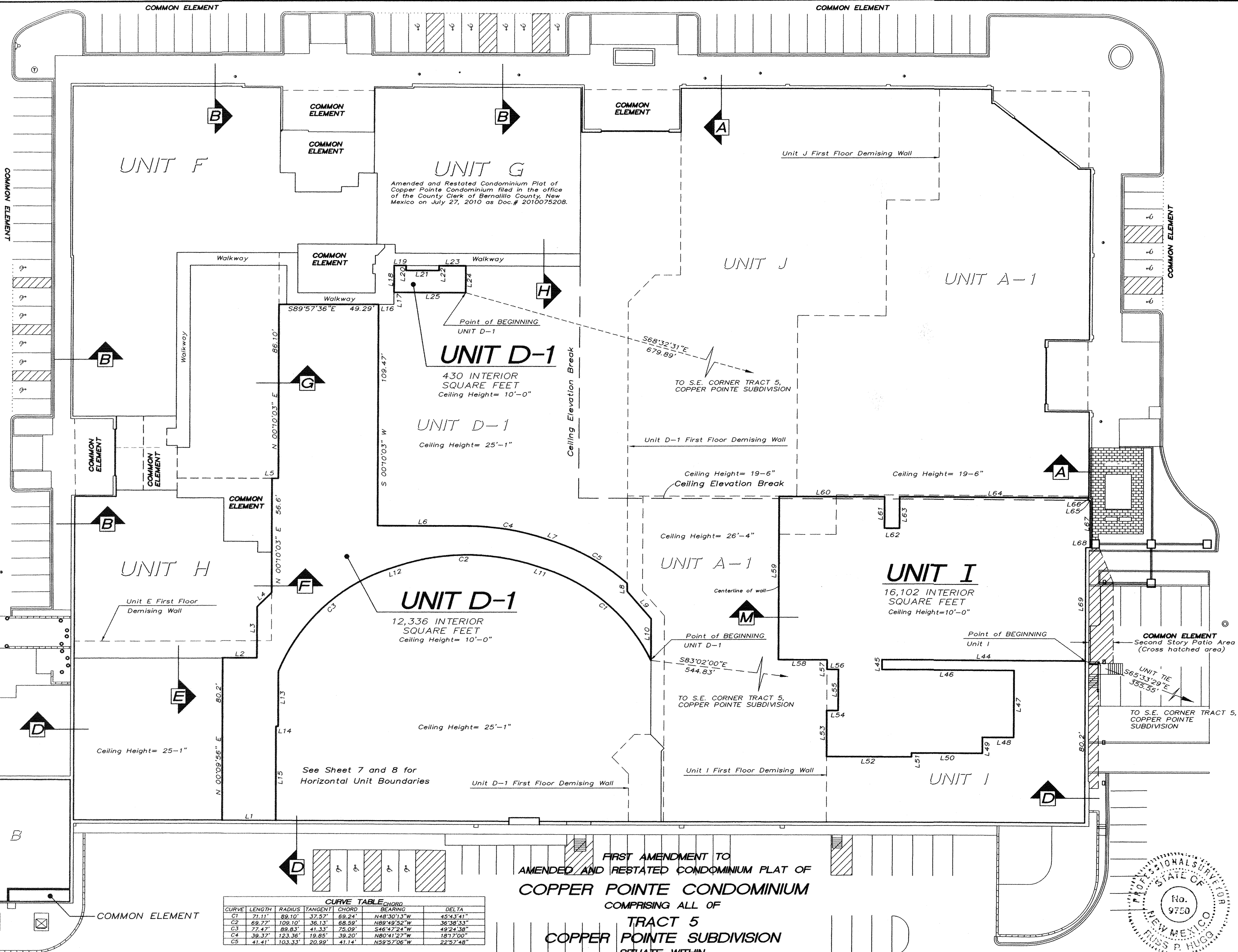
110248. DWG

| LINE | LENGTH | BEARING |
|------|--------|-------------|
| L1 | 26.6 | N89°46'29"W |
| L2 | 17.0 | S89°49'52"E |
| L3 | 25.7 | N00°10'03"E |
| L4 | 10.1 | N45°10'03"E |
| L5 | 3.1 | S89°49'52"E |
| L6 | 44.7 | S89°49'52"E |
| L7 | 5.0 | S71°47'52"E |
| L8 | 4.0 | S00°10'03"W |
| L9 | 18.2 | S40°50'43"E |
| L10 | 21.0 | S00°10'03"W |
| L11 | 5.0 | N71°48'51"W |
| L12 | 5.0 | S72°06'16"W |
| L13 | 27.4 | S00°10'03"W |
| L14 | 1.0 | S89°48'07"W |
| L15 | 46.1 | S00°10'03"W |
| L16 | 7.6 | S89°57'36"E |
| L17 | 5.9 | N00°55'56"E |
| L18 | 13.2 | N00°14'12"E |
| L19 | 5.9 | S89°45'48"E |
| L20 | 2.4 | S00°14'12"W |
| L21 | 16.4 | S89°45'48"E |
| L22 | 2.4 | N00°14'12"E |
| L23 | 13.2 | S89°45'48"E |
| L24 | 13.2 | S00°14'12"W |
| L25 | 35.6 | N89°45'48"W |
| L44 | 100.8 | N89°45'48"W |
| L45 | 5.0 | S00°14'12"W |
| L46 | 65.5 | S89°45'48"E |
| L47 | 33.3 | S00°14'12"W |
| L48 | 15.5 | N89°45'48"W |
| L49 | 7.8 | S00°14'12"W |
| L50 | 35.1 | N89°45'48"W |
| L51 | 1.8 | S00°14'12"W |
| L52 | 42.2 | N89°45'48"W |
| L53 | 22.5 | N00°14'12"E |
| L54 | 5.7 | S89°45'48"E |
| L55 | 20.5 | N00°14'12"E |
| L56 | 3.7 | N89°45'48"W |
| L57 | 4.8 | N00°14'12"E |
| L58 | 24.1 | N89°45'48"W |
| L59 | 81.4 | N00°14'12"E |
| L60 | 52.3 | S89°45'48"E |
| L61 | 15.5 | S00°14'12"W |
| L62 | 7.5 | S89°45'48"E |
| L63 | 15.5 | N00°14'12"E |
| L64 | 93.6 | S89°45'48"E |
| L65 | 1.2 | S00°17'14"W |
| L66 | 0.7 | S89°42'46"E |
| L67 | 23.2 | S00°11'56"W |
| L68 | 2.1 | N89°48'04"W |
| L69 | 56.8 | S00°11'56"W |

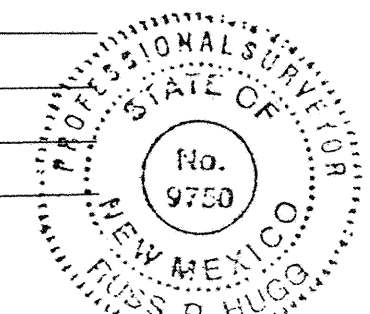


SECOND FLOOR UNIT INFORMATION

| CURVE | LENGTH | RADIUS | TANGENT | CHORD | BEARING | DELTA |
|-------|--------|---------|---------|--------|-------------|-----------|
| C1 | 71.11' | 89.10' | 37.92' | 69.24' | N48°30'13"W | 45°43'41" |
| C2 | 69.77' | 109.10' | 36.13' | 68.59' | N89°49'52"W | 36°38'33" |
| C3 | 77.47' | 89.83' | 41.33' | 75.09' | S46°42'24"W | 49°24'38" |
| C4 | 39.37' | 123.36' | 19.85' | 39.20' | N80°41'22"W | 18°17'00" |
| C5 | 41.41' | 103.33' | 20.99' | 41.14' | N59°57'06"W | 22°57'48" |

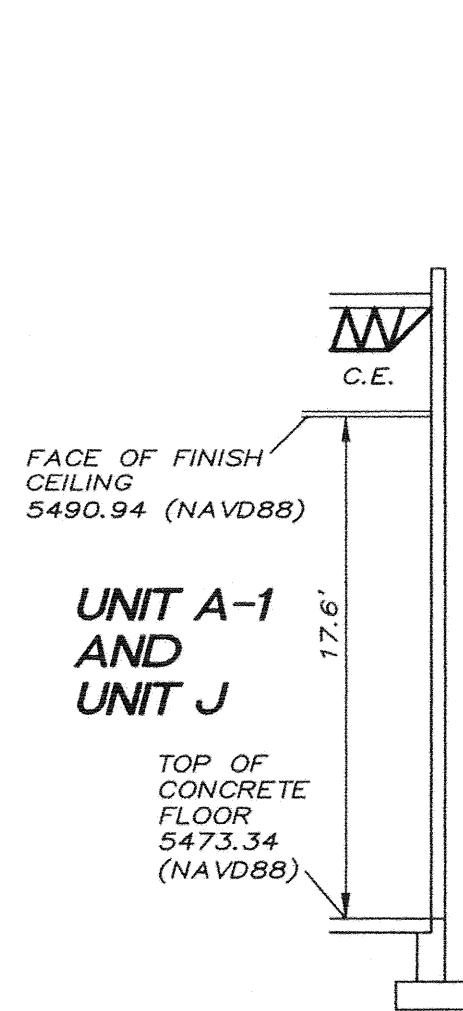


FIRST AMENDMENT TO
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COPPER POINTE CONDOMINIUM
 COMPRISING ALL OF
TRACT 5
COPPER POINTE SUBDIVISION
 SITUATE WITHIN
 SECTION 21, TOWNSHIP 10 NORTH, RANGE 4 EAST
 NEW MEXICO PRINCIPAL MERIDIAN
 CITY OF ALBUQUERQUE
 BERNALILLO COUNTY, NEW MEXICO
 SEPTEMBER 2012

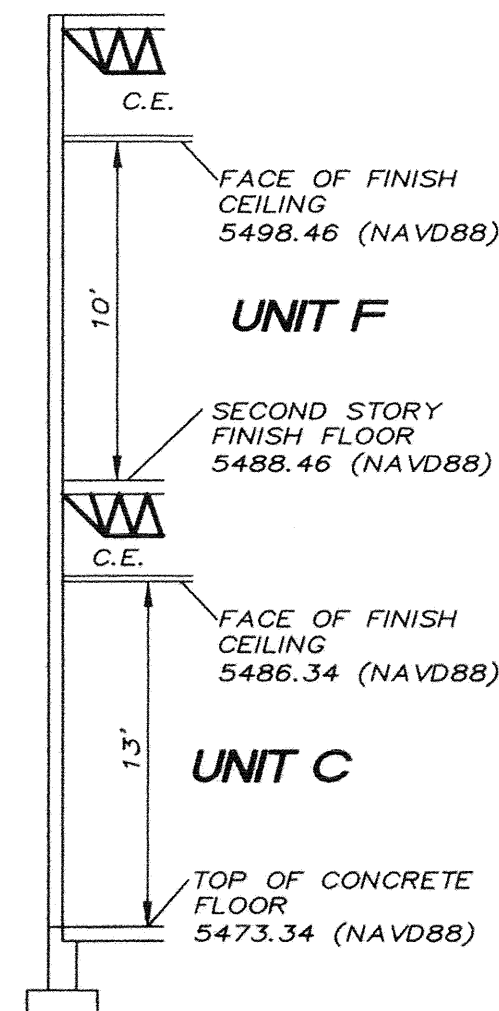


SURV+TEK, INC.
 Consulting Surveyors
 9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377
 Phone: 505-897-3366

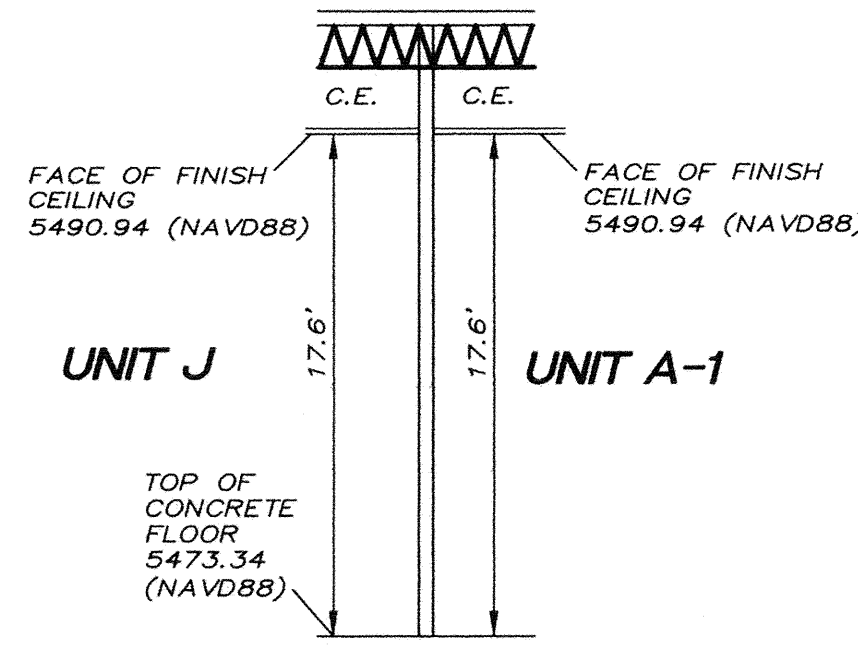
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 CITY OF ALBUQUERQUE
 BERNALILLO COUNTY, NEW MEXICO
 SEPTEMBER 2012



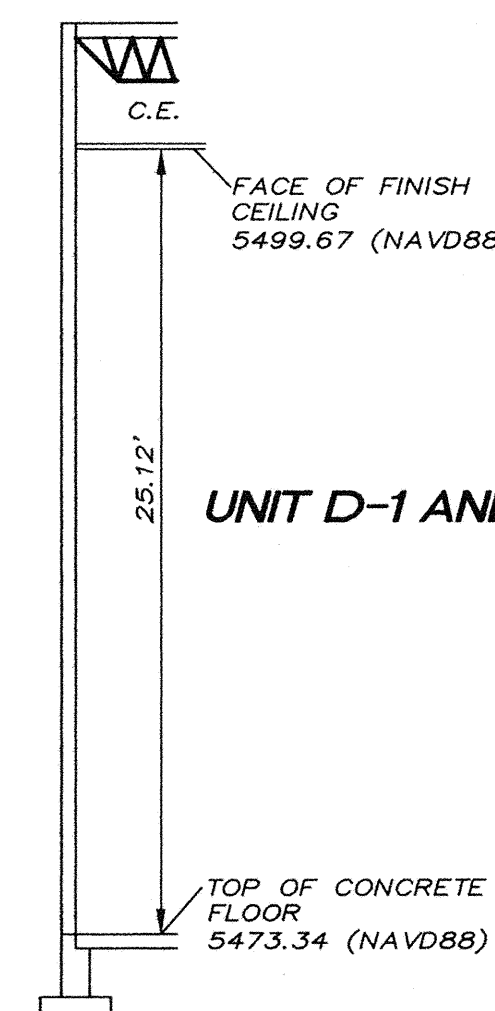
**HORIZONTAL UNIT
 BOUNDARY
 SECTION A**
 NOT TO SCALE



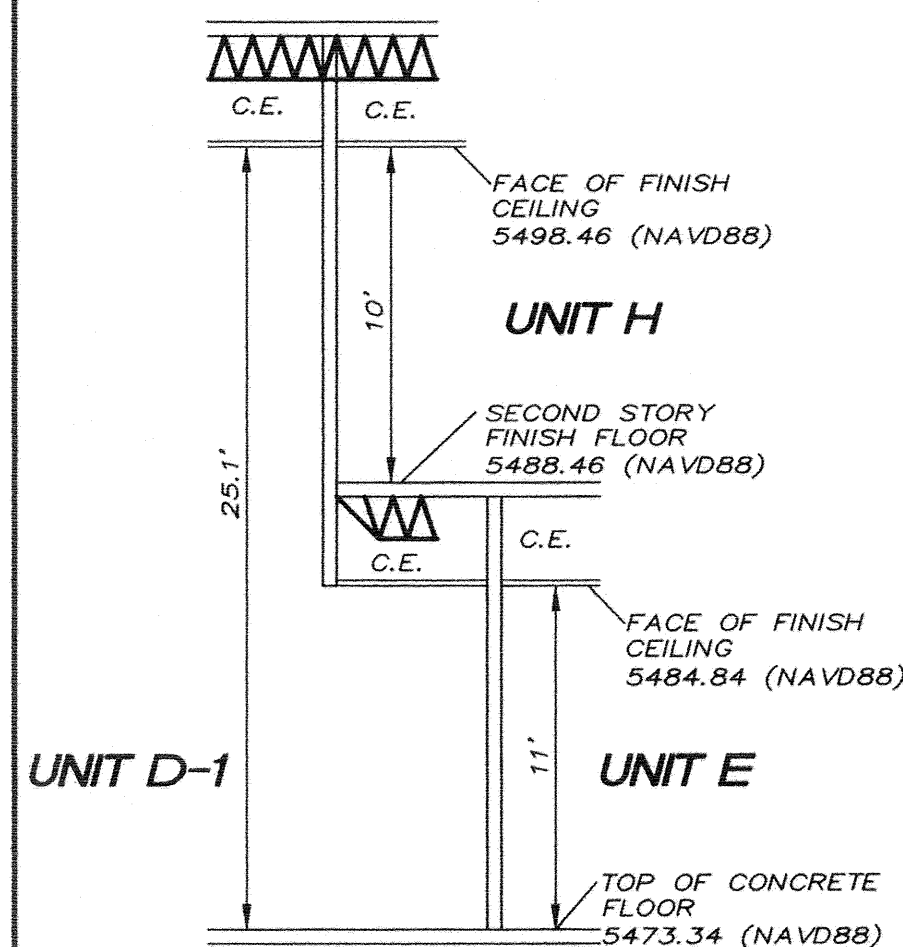
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 SECTION B**
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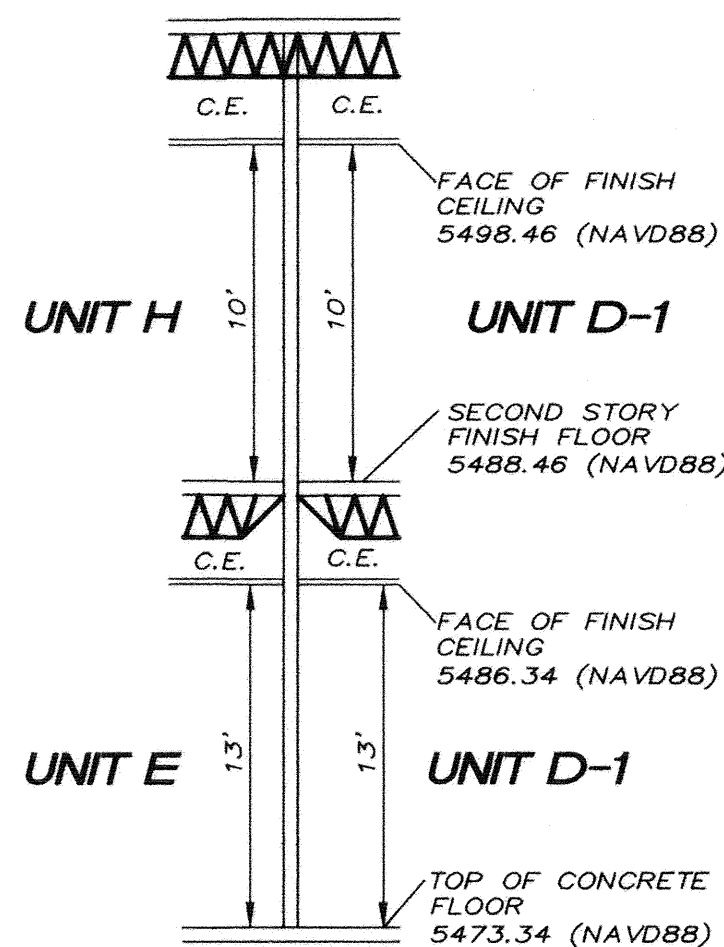
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 SECTION C**
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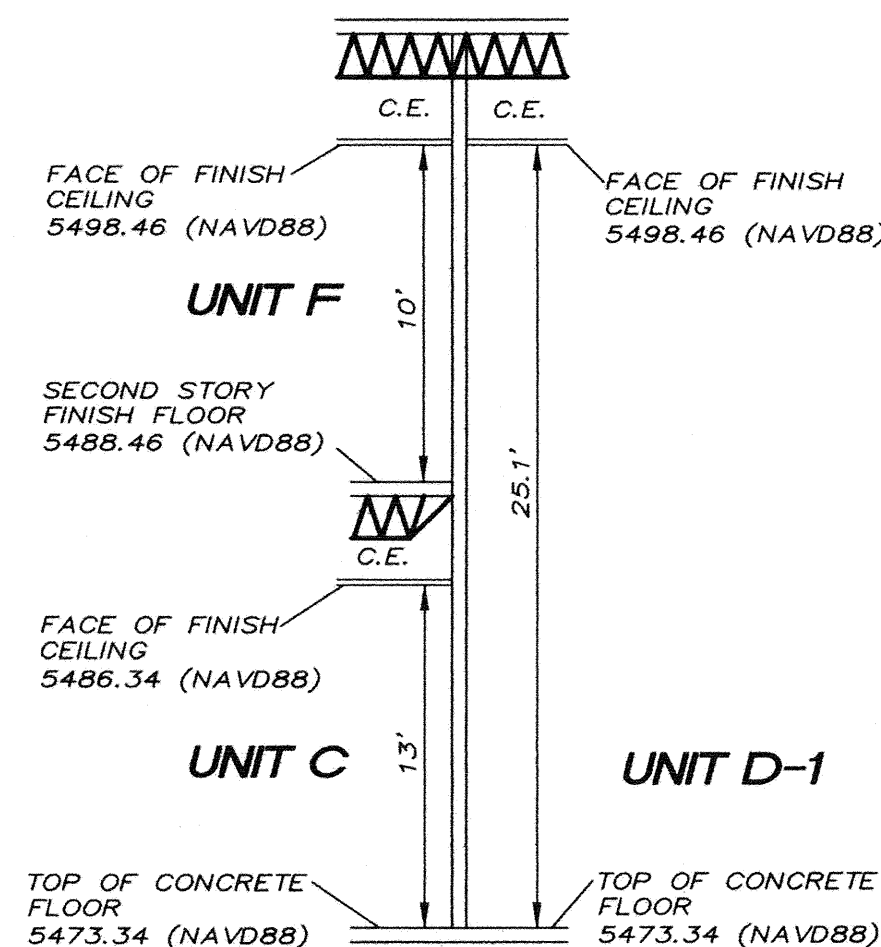
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 SECTION D**
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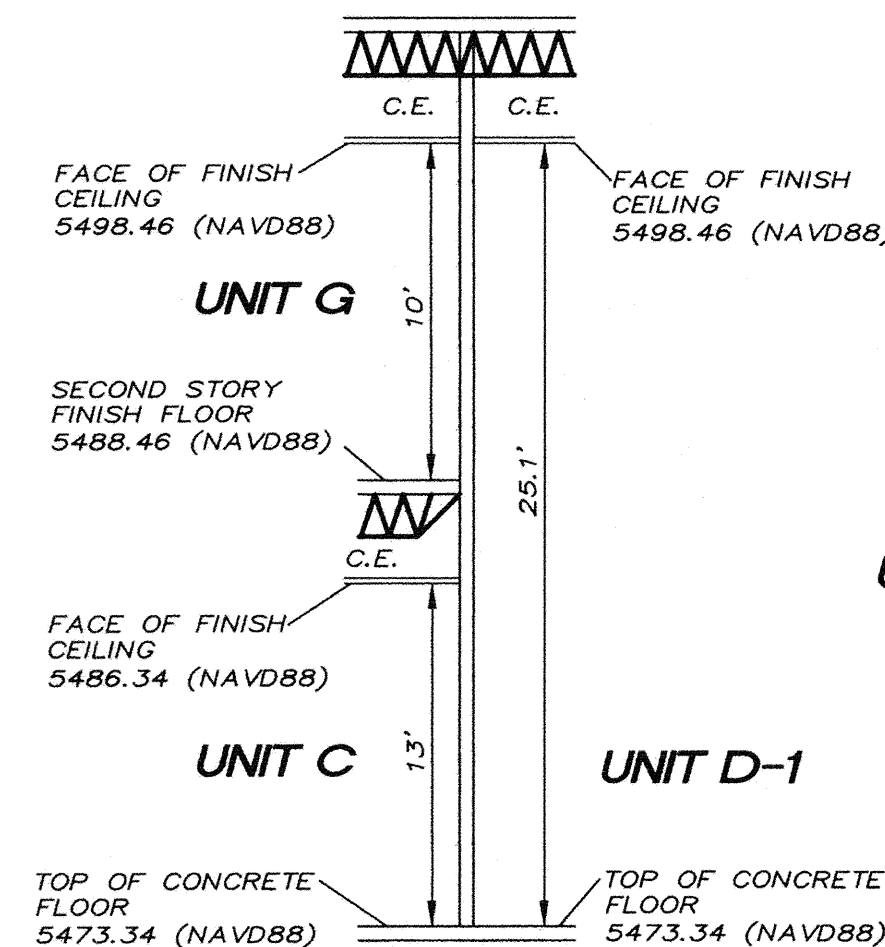
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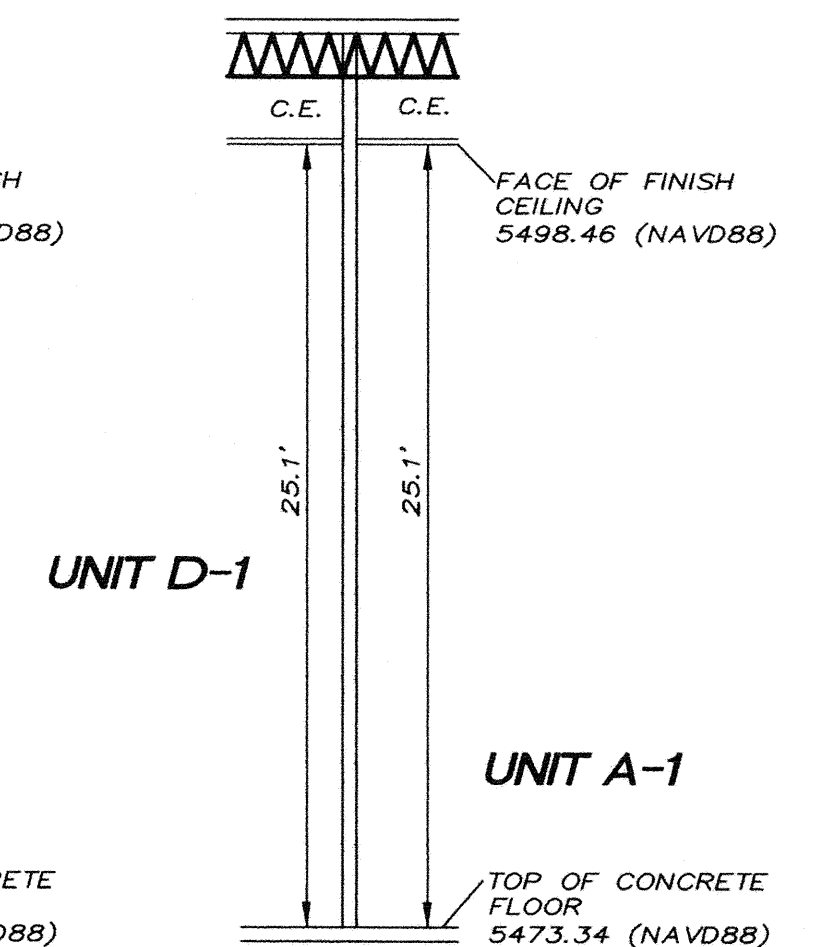
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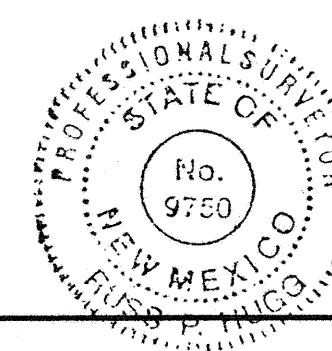
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 SECTION G**
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**HORIZONTAL UNIT
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 SECTION H**
 NOT TO SCALE



**HORIZONTAL UNIT
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 SECTION J**
 NOT TO SCALE

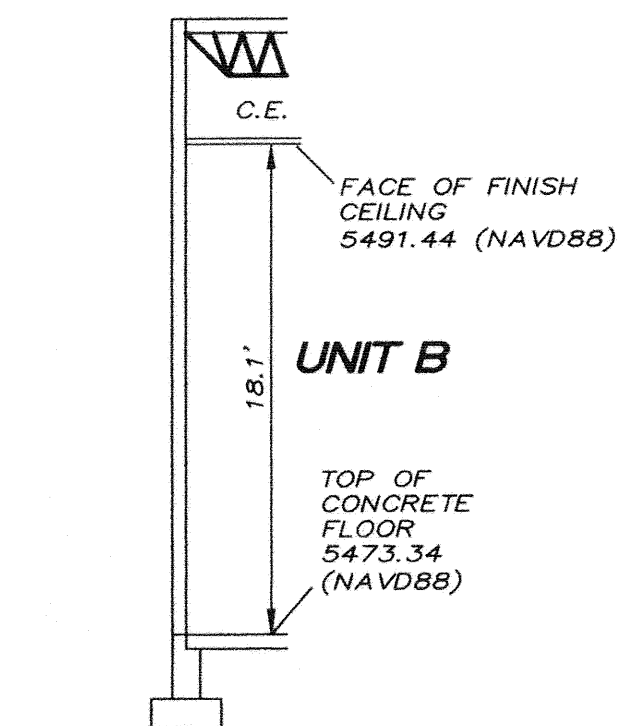


SHEET 7 OF 12

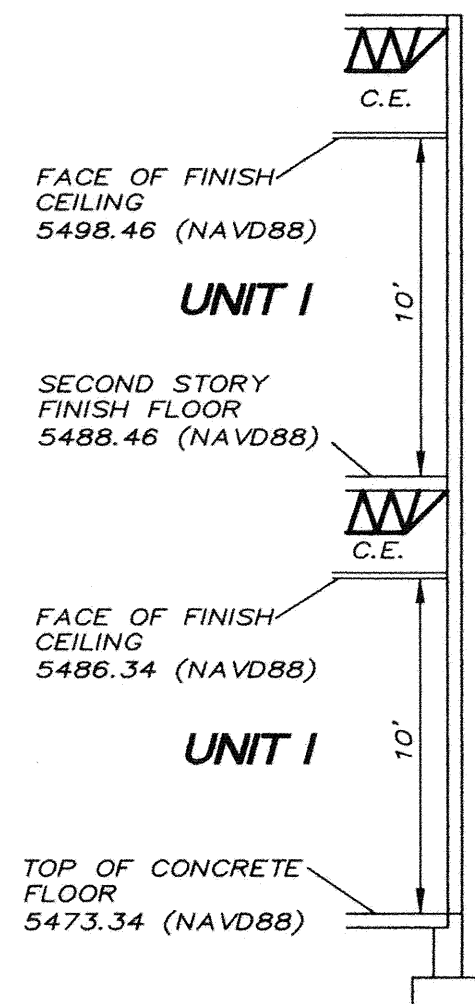
SURVOTEK, INC.

Consulting Surveyors
 9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377

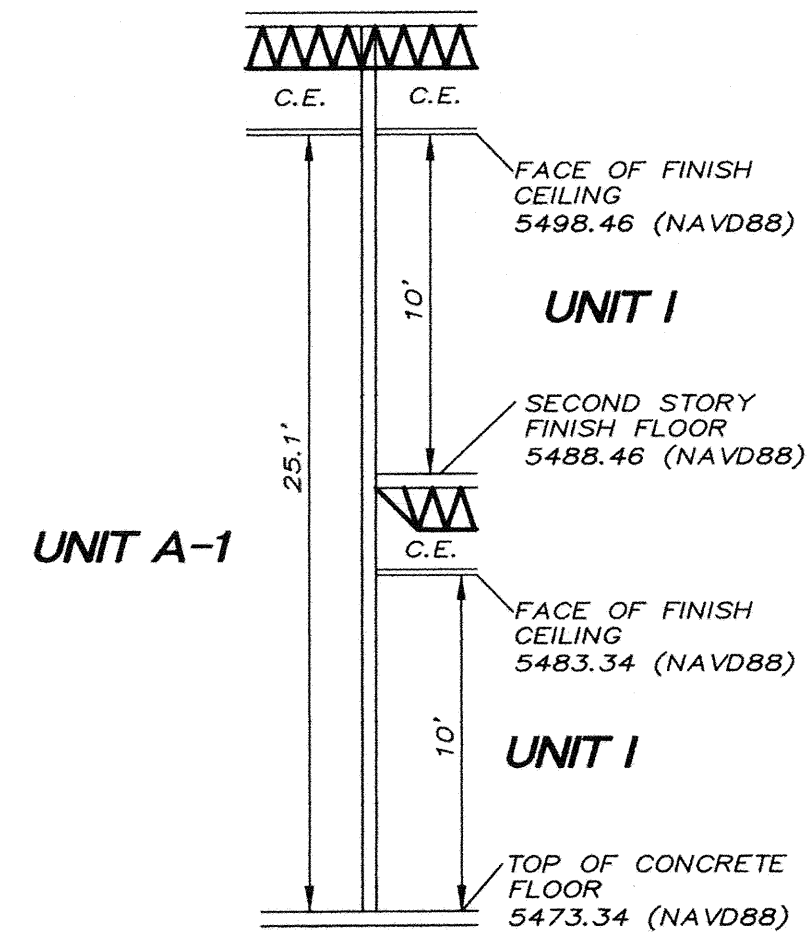
FIRST AMENDMENT TO
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 CITY OF ALBUQUERQUE
 BERNALILLO COUNTY, NEW MEXICO
 SEPTEMBER 2012



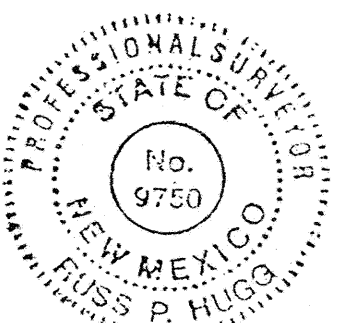
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**HORIZONTAL UNIT
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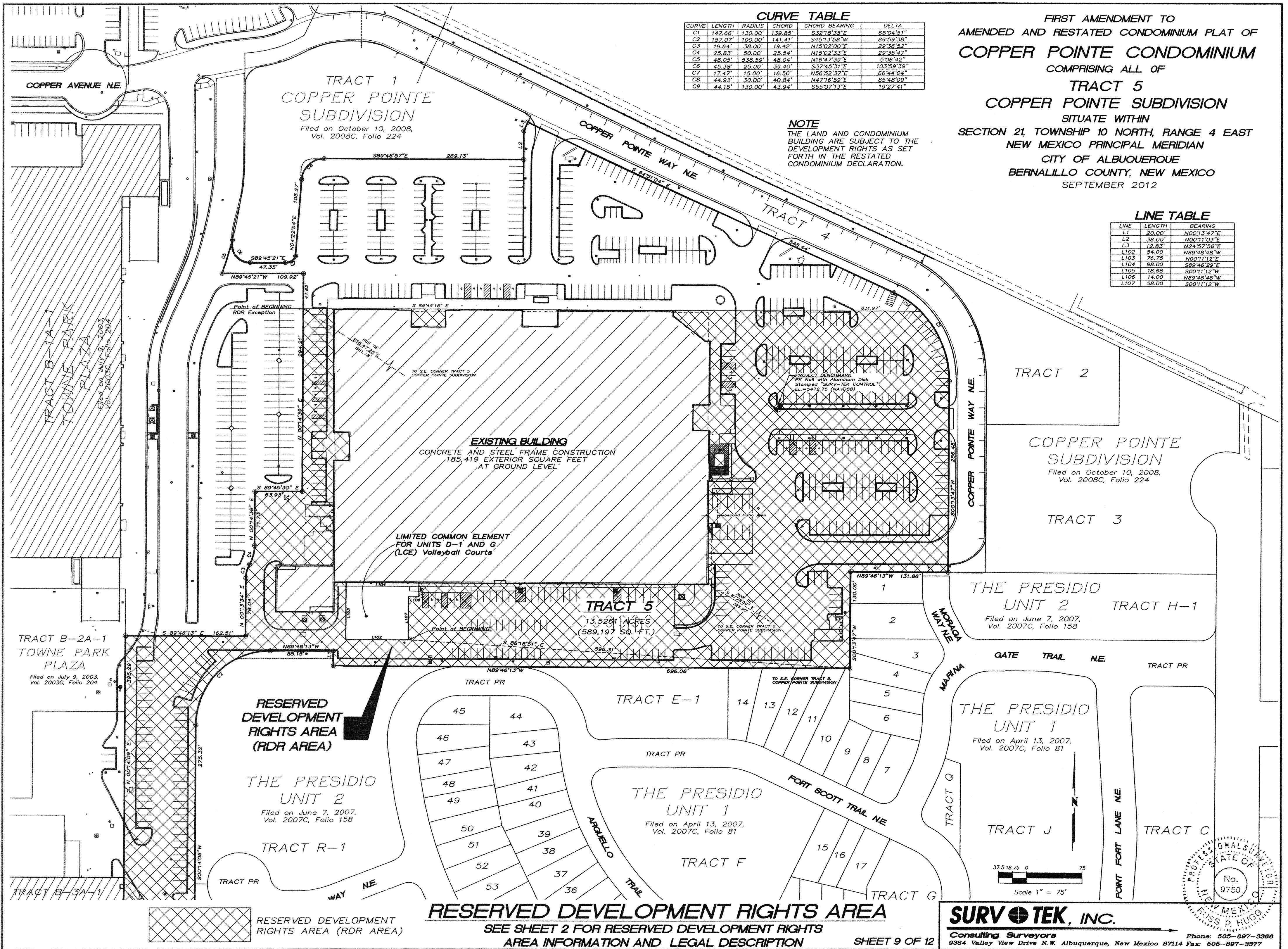
**HORIZONTAL UNIT
 BOUNDARY
 SECTION M**
 NOT TO SCALE



SHEET 8 OF 12

SURVOTEK, INC.

Consulting Surveyors
 9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377
 Phone: 505-897-3366



| CURVE TABLE | | | | | |
|-------------|---------|---------|---------|---------------|------------|
| CURVE | LENGTH | RADIUS | CHORD | CHORD BEARING | DELTA |
| C1 | 147.66' | 130.00' | 139.85' | S32°18'38"E | 65°04'51" |
| C2 | 157.07' | 100.00' | 141.41' | S45°13'58"W | 89°59'38" |
| C3 | 19.64' | 38.00' | 19.42' | N15°02'00"E | 29°36'52" |
| C4 | 25.83' | 50.00' | 25.54' | N15°02'33"E | 29°39'47" |
| C5 | 48.05' | 538.59' | 48.04' | N16°47'39"E | 5106'42" |
| C6 | 45.38' | 25.00' | 39.40' | S37°45'31"E | 103°59'39" |
| C7 | 17.47' | 15.00' | 16.50' | N56°52'37"E | 66°44'04" |
| C8 | 44.93' | 30.00' | 40.84' | N47°16'59"E | 85°48'09" |
| C9 | 44.15' | 130.00' | 43.94' | S55°07'13"E | 19°27'41" |

NOTE
THE LAND AND CONDOMINIUM BUILDING ARE SUBJECT TO THE DEVELOPMENT RIGHTS AS SET FORTH IN THE RESTATED CONDOMINIUM DECLARATION.

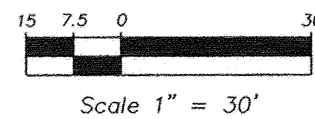
FIRST AMENDMENT TO
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NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012

| LINE TABLE | | |
|------------|--------|-------------|
| LINE | LENGTH | BEARING |
| L1 | 20.00' | N00°13'47"E |
| L2 | 38.00' | N00°11'03"E |
| L3 | 12.83' | N24°57'56"E |
| L102 | 84.00' | N89°48'48"W |
| L103 | 76.75' | N00°11'12"E |
| L104 | 98.00' | S89°46'29"E |
| L105 | 18.68' | S00°11'12"W |
| L106 | 14.00' | N89°48'48"W |
| L107 | 58.00' | S00°11'12"W |

RESERVED DEVELOPMENT RIGHTS AREA
SEE SHEET 2 FOR RESERVED DEVELOPMENT RIGHTS
AREA INFORMATION AND LEGAL DESCRIPTION

SURV TEK, INC.
Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377

Phone: 505-897-3366



**COMMON
ELEMENT**

**COMMON
ELEMENT**

UNIT J
First Floor

UNIT A-1
First Floor

RDR LOWER LEVEL AREA
Horizontal Unit Boundary 5498.46'
(Cross Hatched Area)
30,011 Sq.Ft.

UNIT I
First Floor

UNIT B

LIMITED COMMON ELEMENT
(LCE FOR UNITS D-1 AND G)

FIRST AMENDMENT TO
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SEPTEMBER 2012

SHEET 10 OF 12

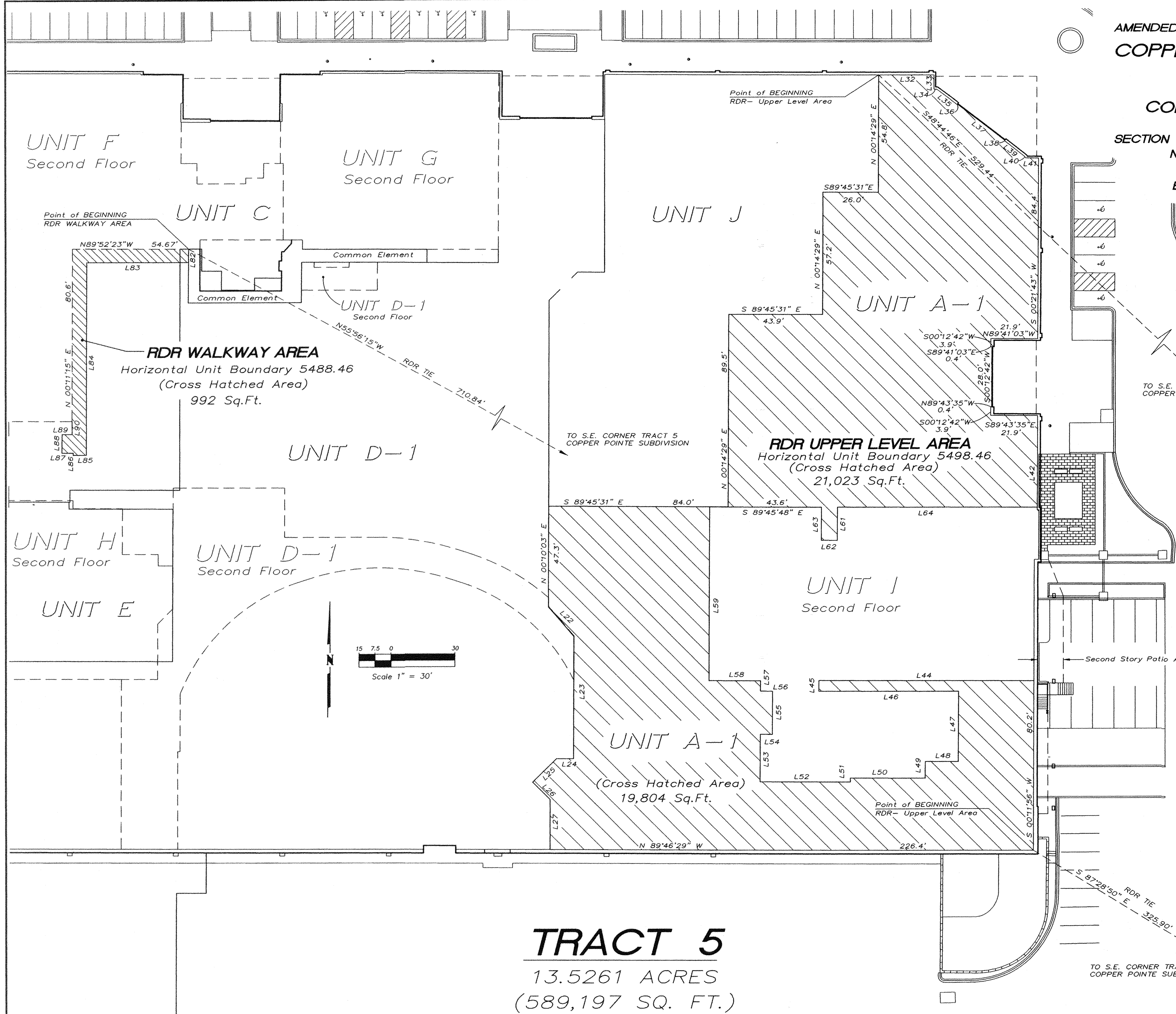
SURV  TEK, INC.

Consulting Surveyors Phone: 505-897-3366
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377

A circular professional seal for a surveyor in the State of New Mexico. The outer ring contains the text "PROFESSIONAL SURVEYOR" at the top and "NEW MEXICO" at the bottom, separated by dots. The inner circle contains the text "STATE OF" at the top and "No. 9750" in the center.

RESERVED DEVELOPMENT RIGHTS AREA
SEE SHEETS 2 AND 3 FOR RESERVED DEVELOPMENT
RIGHTS AREA INFORMATION AND LEGAL DESCRIPTION

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 CITY OF ALBUQUERQUE
 BERNALILLO COUNTY, NEW MEXICO
 SEPTEMBER 2012



| LINE | LENGTH | BEARING |
|------|--------|-------------|
| L22 | 18.2 | N40°50'43"W |
| L23 | 57.7 | N00°10'03"E |
| L24 | 8.0 | S89°49'57"E |
| L25 | 15.7 | N45°10'03"E |
| L26 | 11.6 | N44°49'57"W |
| L27 | 23.5 | N00°10'03"E |

| | | |
|-----|-------|-------------|
| L32 | 26.0 | S89°45'18"E |
| L33 | 6.9 | S00°14'42"W |
| L34 | 1.3 | S89°45'18"E |
| L35 | 12.0 | S52°24'50"E |
| L36 | 0.2 | N37°35'10"E |
| L37 | 28.1 | S52°24'50"E |
| L38 | 0.2 | S37°35'10"W |
| L39 | 12.0 | S52°24'50"E |
| L40 | 0.7 | S22°38'08"E |
| L41 | 6.1 | S89°47'29"E |
| L42 | 41.7 | S00°17'14"W |
| L43 | 16.6 | N40°46'17"W |
| L44 | 100.8 | S89°45'48"E |
| L45 | 5.0 | N00°14'12"E |
| L46 | 65.5 | N89°45'48"W |
| L47 | 33.3 | N00°14'12"E |
| L48 | 15.5 | S89°45'48"E |
| L49 | 7.8 | N00°14'12"E |
| L50 | 35.1 | S89°45'48"E |
| L51 | 1.8 | N00°14'12"E |
| L52 | 42.2 | S89°45'48"E |
| L53 | 22.5 | S00°14'12"W |
| L54 | 5.7 | N89°45'48"W |
| L55 | 20.5 | S00°14'12"W |
| L56 | 5.7 | S89°45'48"E |
| L57 | 4.8 | S00°14'12"W |
| L58 | 24.1 | S89°45'48"E |
| L59 | 81.4 | S00°14'12"W |
| L60 | 52.3 | S89°45'48"E |
| L61 | 15.5 | S00°14'12"W |
| L62 | 7.5 | S89°45'48"E |
| L63 | 15.5 | N00°14'12"E |
| L64 | 93.6 | N89°45'48"W |
| L65 | 1.2 | S00°17'14"W |
| L66 | 0.7 | S89°42'46"E |
| L67 | 23.2 | S00°11'56"W |
| L68 | 2.1 | N89°48'04"W |
| L69 | 56.8 | S00°11'56"W |

| | | |
|-----|------|-------------|
| L82 | 6.3 | S00°25'00"W |
| L83 | 47.9 | N89°56'38"W |
| L84 | 89.9 | S00°11'15"W |
| L85 | 6.2 | N89°56'16"W |
| L86 | 1.0 | N00°10'03"E |
| L87 | 5.3 | N89°49'58"W |
| L88 | 8.6 | N00°10'03"E |
| L89 | 4.7 | S89°49'56"E |
| L90 | 6.0 | N00°10'03"E |

TRACT 5
 13.5261 ACRES
 (589,197 SQ. FT.)

RESERVED DEVELOPMENT RIGHTS AREA
 SEE SHEETS 2 AND 3 FOR RESERVED DEVELOPMENT
 RIGHTS AREA INFORMATION AND LEGAL DESCRIPTION

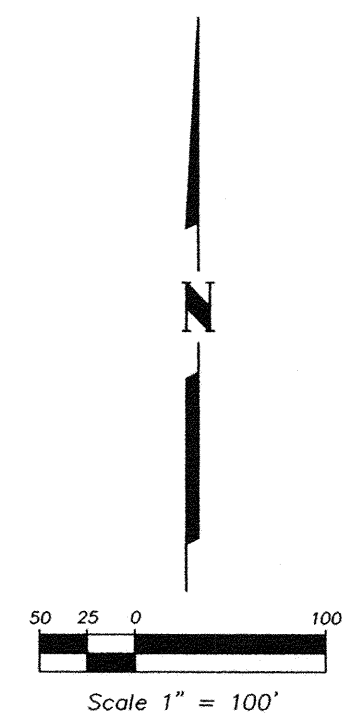
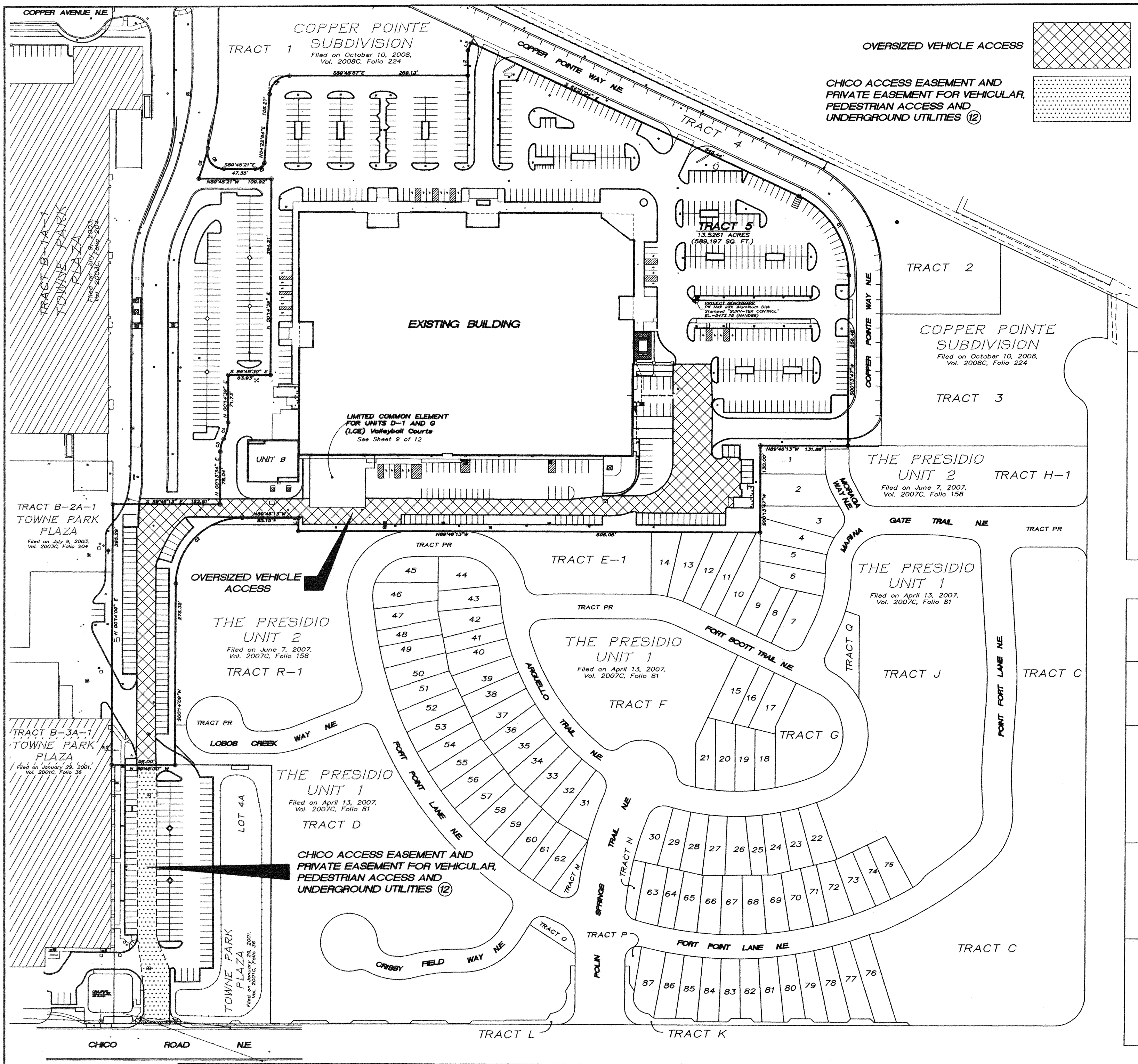
SHEET 11 OF 12

SURV TEK, INC.

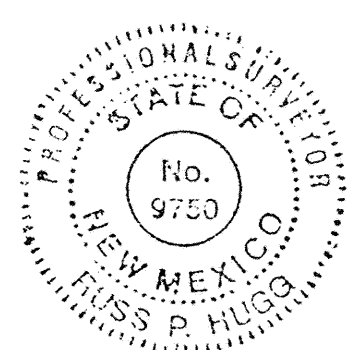
Consulting Surveyors
 9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377
 Phone: 505-897-3386



FIRST AMENDMENT TO
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BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER 2012



NOTE
THE LAND AND CONDOMINIUM BUILDING ARE
SUBJECT TO THE DEVELOPMENT RIGHTS AS
SET FORTH IN THE RESTATED CONDOMINIUM
DECLARATION.



CURVE TABLE

| CURVE | LENGTH | RADIUS | CHORD | CHORD BEARING | DELTA |
|-------|---------|---------|---------|---------------|------------|
| C1 | 147.66' | 130.00' | 139.85' | S32°18'38"E | 65°04'51" |
| C2 | 157.07' | 100.00' | 141.41' | S45°13'58"W | 89°59'38" |
| C3 | 19.64' | 38.00' | 19.42' | N15°02'00"E | 29°36'52" |
| C4 | 25.83' | 50.00' | 25.54' | N15°02'33"E | 29°35'47" |
| C5 | 48.05' | 838.59' | 48.04' | N16°47'39"E | 5°06'42" |
| C6 | 45.36' | 25.00' | 39.40' | S37°45'31"E | 103°59'39" |
| C7 | 17.47' | 15.00' | 16.50' | N56°52'37"E | 66°44'04" |
| C8 | 44.93' | 30.00' | 40.84' | N47°16'59"E | 85°48'09" |

OVERSIZED VEHICLE ACCESS AND CHICO ACCESS EASEMENT INFORMATION
SEE SHEET 1 FOR KEYED EASEMENT INFORMATION

SURV+TEK, INC.
Consulting Surveyors
9384 Valley View Drive N.W. Albuquerque, New Mexico 87114 Fax: 505-897-3377
Phone: 505-897-3366