

Environmental Group, Inc.

ADR

**ADDITIONAL SUBSURFACE INVESTIGATION AND
INDOOR AIR QUALITY SURVEY
FOR**

**FORMER ONE HOUR MARTINIZING (TWO LOCATIONS)
AND FORMER WILLIS DRY CLEANERS**

Colonia Verde Shopping Center
7113, 7115, 7181, and 7189 East Tanque Verde Road
Tucson, Arizona 85715

ADEQ Site Code: 512819-00

Project Number: WWFC 01-16-327-AZ (A-3)

October 31, 2017

Prepared For

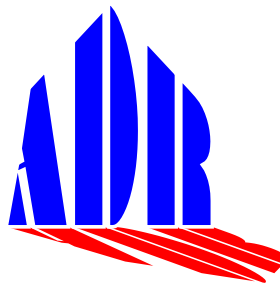
Westwood Financial LLC
11440 San Vicente Blvd., Suite 200
Los Angeles, California 90049

Prepared By

ADR Environmental Group, Inc.

in cooperation with

Bender Environmental Consulting, Inc.



**ADR Environmental Group, Inc.
National Customer Service Center**

225 30th Street, Suite 202
Sacramento, California 95816
1-888-62 ADREG [622-3734]
www.adreg.com

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1 EXECUTIVE SUMMARY

ADR Environmental Group, Inc. (ADR) is pleased to present this report describing the results of a subsurface investigation of soil vapor and an indoor air quality survey at the historical location of three former dry cleaning facilities (One Hour Martinizing, at two locations; and Wallis Cleaners), located within the Colonia Verde shopping complex at 7111 - 7181 East Tanque Verde Road in Tucson, Arizona (the "subject Property"). The two former One Hour Martinizing tenant spaces are currently occupied by a Walgreens, Cold Stone Creamery, and The Vape Zone Smokeless. The former Wallis Cleaners was located in the vicinity of Any Lab Test Now and Beltone Hearing Aids.

As discussed in detail below, the results of the laboratory analysis of the soil vapor samples collected from vapor wells VW-1 through VW-6 indicated the presence of the dry cleaning solvent tetrachloroethene (PCE) at concentrations ranging from 281 to 10,440 $\mu\text{g}/\text{m}^3$. Generally, the highest concentrations were detected in vapor well VW-4, located near the former Wallis Cleaners (near Beltone Hearing Aids). The remaining dry cleaning related VOCs, including TCE, were below laboratory reporting limits.

However –no dry cleaning related VOCs, including PCE, were reported in indoor air (*i.e.*, the results were "non-detect"). The results were also non-detect for the presence of VOCs in the background air samples. Based on the absence of VOC compounds in indoor air in all samples, no apparent health hazard exists for the employees and customers of these businesses.

This report should be provided to the Arizona Department of Environmental Quality (ADEQ) in order to determine the next phase of work required for achieving written regulatory closure in the form of a "No Further Action" letter.

2 INTRODUCTION

ADR Environmental Group, Inc. (ADR) is pleased to present this report describing the results of a subsurface soil vapor investigation and indoor air quality survey at the historical location of three former dry cleaning facilities (One Hour Martinizing, at two locations; and Wallis Cleaners), located within the Colonia Verde shopping complex at 7111 - 7181 East Tanque Verde Road in Tucson, Arizona (subject Property, Figure 1).

This work was conducted in response to a May 23, 2017, letter issued by the Arizona Department of Environmental Quality (ADEQ) requiring the performance of additional work at the subject Property. The two former One Hour Martinizing tenant spaces are currently occupied by a Walgreens, Cold Stone Creamery, and The Vape Zone Smokeless. The former Wallis Cleaners was located in the vicinity of Any Lab Test Now and Beltone Hearing Aids.

In light of potential environmental concerns related to dry cleaning facilities and the result of ADR's July 2016 subsurface investigation, ADR conducted an additional subsurface investigation to evaluate whether dry cleaning-related volatile organic compounds (VOCs) were present in soil vapor beneath the building slab of the former dry cleaners at levels exceeding applicable regulatory guidance. Additionally, ADR performed an indoor air quality survey to evaluate potential health risks to human receptors from the inhalation of dry cleaning related VOCs emanating from soil vapor beneath the subsurface to indoor air within the three former dry cleaner sites. Fieldwork for the soil vapor investigation and indoor air quality survey was conducted between September 28 and October 9, 2017, in accordance with ADR's proposal, dated August 31, 2017.

This report includes a summary of site background information, a description of the boring advancement, a description of the indoor air survey sampling strategy, soil vapor and indoor air sample collection methods, the results of laboratory analyses, and ADR's conclusions and recommendations. Under contract to ADR, Mr. Gary Bender, an Arizona Registered Geologist employed by Bender Environmental Consulting (Arizona State Board of Technical Registration, Firm Registration #10154-0), directed the installation of the soil boring vapor probes, conducted the indoor air survey, and collected the soil vapor and indoor air samples. The project was coordinated by ADR Project Geologist Larry A. Flora and ADR Project Manager Kevin F. Gallagher.

3 BACKGROUND

3.1 Site Description

Colonia Verde, located in a commercial and residential area of Tucson, consists of an irregular-shaped parcel of land totaling approximately 8.6 acres and is occupied by several retail buildings totaling approximately 98,950 square feet. Colonia Verde is a neighborhood shopping center anchored by a Safeway store.

The remaining portion of the site consists of asphalt-paved parking areas, concrete-paved truck loading pads and walkways, and landscaped areas. Two driveways off East Tanque Verde Road to the south, one driveway off North Sabino Canyon Road to the west, one driveway off East Camino Bacelar to the north, and two driveways off North Camino Valle Verde to the east provide vehicle access to the shopping center. The elevation of the shopping center is approximately 2,520 feet above mean sea level with a topographic gradient toward the north.

3.2 Previous Environmental Investigations

In September 1992, Environmental Engineering Consultants, Inc. (EEC) collected four soil samples from the Fersha Corp. tenant space (then doing business as one Hour Martinizing) located within the Colonia Verde shopping center at 7113 East Tanque Verde Road. The soil samples, collected at a depth of 18 inches below ground surface (bgs), were analyzed for tetrachloroethene (PCE). EEC reported that one sample contained a detectable concentration of 2.0 parts per million (ppm) of PCE. EEC recommended additional sampling to determine the extent of soil contamination.

Accordingly, six additional soil samples were collected – three at depths of 5 feet bgs and three at 18 inches bgs. PCE was detected at concentrations up to 50 ppm in three shallow samples; however, EEC believed the reported 50 ppm concentration was erroneous since another sample taken within 3 inches of this sample had a reported concentration of 1.61 ppm. The then-current Arizona Department of Environmental Quality (ADEQ) Health-Based Guidance Level for PCE in soils was 27 ppm. EEC estimated the vertical extent of PCE-contamination to be 2 feet and the lateral extent to be an area no greater than 10 feet by 20 feet.

Subsequently, EEC excavated approximately 400 cubic feet of soils from the contaminated area. Four samples were collected from the floor of the excavation and analyzed for PCE; no PCE was detected in three samples and PCE was reported at 0.35 ppm in one sample. An additional one foot of soil was therefore removed from the area where the PCE was detected and the floor of this excavation was re-sampled; no PCE was detected.

In February 2002, EEC collected two soil samples at the relocated One Hour Martinizing tenant space (relocated from its original space to another building but maintaining the 7113 East Tanque Verde Road address). The samples were collected from approximately 12 inches bgs. One of these samples was collected near the front of the out-of-service dry cleaning machine and the second sample was collected from the former PCE storage area in the rear of the machine. The samples were analyzed for PCE. PCE was reported at a concentration of 0.13 ppm in the sample collected from the front of the machine and at a concentration of 0.58 ppm in the sample collected from the former PCE storage area.

In light of the previous investigations conducted by EEC, which documented soil contamination beneath the former One Hour Martinizing tenant spaces and Wallis Cleaners

(what sampling was ever done at the former Wallis Cleaners?), ADR performed a sub-slab vapor investigation at the historical location of the former cleaners in order to determine whether releases of PCE could represent a potential vapor intrusion concern.

On July 20, 2016, to evaluate the presence or absence of dry cleaning-related VOCs in sub-slab vapors beneath both former One Hour Martinizing tenant spaces (Walgreens and Cold Stone Creamery/vacant unit) and within the general vicinity of former Wallis Cleaners (Mayfield Florist and Beltone - Hearing Aid), 10 vapor implants (designated SG-01 through SG-10) were installed, as shown in Figure 2. More specifically, vapor implants SG-01, SG-02, and SG-03 were installed within the southwest portion of Walgreens, vapor implants SG-04 and SG-05 were installed within the Beltone – Hearing Aid tenant space, implants SG-06 and SG-07 were installed within the Mayfield Florist tenant space, vapor implant SG-08 was installed near the adjoining wall of vacant tenant space A102 and Cold Stone Creamery, and vapor implants SG-09 and SG-10 were installed within the Cold Stone Creamery space. The sub-slab borings were subsequently converted to sub-slab vapor wells.

Laboratory analysis of sub-slab vapor samples SG-01 through SG-10 detected the presence of the dry cleaning solvent PCE at concentrations ranging from 80 to 12,750 micrograms/cubic meter ($\mu\text{g}/\text{m}^3$). The highest concentration was detected in sample SG-03, located within Walgreens; the original location of One Hour Martinizing. Trichloroethene (TCE), a breakdown product of PCE, was detected in sample SG-03 at a concentration of $17.8 \mu\text{g}/\text{m}^3$. The remaining dry cleaning related VOCs in the samples were below laboratory reporting limits. As shown in Table 1 of attachment A, the concentration of PCE detected in samples SG-01 and SG-03 exceed the established EPA VISL for commercial buildings with a risk factor of 1×10^{-6} of $1,600 \mu\text{g}/\text{m}^3$.

Based on these exceedances of applicable regulatory thresholds, ADR reported the elevated PCE concentrations to ADEQ. After evaluation of ADR's results, in a letter dated May 23, 2017, ADEQ required an additional investigation of the subject Property. The additional investigation was to consist of collecting air samples and soil vapor samples from the three former dry cleaning tenant spaces. According to ADEQ, the contaminants of concern (COC) at this time are PCE and TCE.

Accordingly, ADR submitted a July 26, 2017 *Work Plan to Perform Additional Subsurface Investigation and Conduct an Indoor Air Quality Survey* (the Work Plan) to the ADEQ. The ADEQ approved the Work Plan on August 25, 2017 with a note indicating that soil vapor samples should be collected until three consecutive samples of decreasing concentration are encountered.

3.3 Geologic and Hydrogeologic Setting

According to the 1973 "Geohydrology and Water Resources of the Tucson Basin, Arizona" report prepared by E. S. Davidson, the subject Property is located in the Tucson Basin, an alluvium-filled valley bounded by mountainous areas. This structural basin was formed by faulting along the western margin. Episodic faulting over an extended time period created a deepening basin with internal drainage.

Site specific groundwater information was not available for the subject Property. According to information provided by Arizona Department of Water Resources (ADWR) for a well (D-13-15 31DDA) located approximately 1000 feet west of the shopping center, the depth to

groundwater at that well was measured at approximately 231 feet bgs in January 2017. Based on topography, the localized groundwater flow direction is likely toward the north.

It should be noted that estimated groundwater levels may vary due to fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations.

4 SCOPE OF WORK

In accordance with ADR's July 26, 2017, *Work Plan to Perform Additional Subsurface Investigation and Conduct an Indoor Air Quality Survey* (Work Plan), ADR conducted an indoor air quality survey to evaluate potential health risks to human receptors from the inhalation of dry-cleaning related VOCs emanating from soil vapor beneath the subsurface to indoor air within the three former dry cleaner sites and advanced two soil vapor borings adjacent each of the former dry cleaner tenant spaces. Soil boring fieldwork was conducted in accordance with the drilling and sampling methods described in Attachment A.

The completed scope of work for the subsurface investigation and air quality survey included the following:

- Preparation of an updated Site Assessment Work Plan/Health and Safety Plan.
- Notification of public underground utility services and utilization of a private utility locating service to insure drilling did not encounter utility lines.
- Advancement of six hollow-stem soil vapor borings to depths of 40 feet bgs at two locations adjacent to the each of the three former dry cleaning tenant spaces.
- For descriptive purposes, collection of soil samples at vertical intervals of 5 feet bgs as the boring were advanced. Recovered soil samples were screened in the field for the presence of organic vapors with a portable photoionization detector (PID).
- Conversion of the soil borings into 40-foot deep nested soil vapor wells with sampling probes set at 5, 10, 15, 20, 25, 30, 35, and 40 feet bgs.
- Collection of discrete soil vapor samples from the vapor borings at 5, 10, 15, 20, 25, 30, 35, and 40 feet bgs
- Preparation of a building survey and chemical inventory survey of the Walgreens, The Vape Zone Smokeless, and Beltone Hearing Aids tenant spaces.
- Collecting five indoor air samples (three samples from Walgreens (including 1 duplicate sample), one sample from The Vape Zone Smokeless, one sample from Beltone Hearing Aids) and collecting one outdoor air sample upgradient of the prevailing wind direction from each former dry cleaner site (total of three background samples)
- Analysis of selected soil vapor and indoor samples for dry cleaning related VOCs (PCE, TCE, trans-1,2-dichloroethene, cis-1,2-dichloroethene, 1,1-dichloroethene and vinyl chloride) in accordance with EPA Method TO-15.
- Analysis of selected soil samples collected from the drummed auger soil cuttings by a state-certified laboratory in accordance with EPA Method 8260.
- Preparation of this report summarizing the findings of the investigation.

5 FIELD WORK

On September 28 and 29, 2017, using truck-mounted hollow stem auger drilling methods, ADR directed the advancement of six 6-inch diameter soil vapor borings (two per former dry cleaning site) to a depth of 40 feet bgs. More specifically, four of the soil borings (designated VW-1, VW-2, VW-5 and VW-6) were located adjacent to the two former One Hour Martinizing tenant spaces, currently occupied by a Walgreens, Cold Stone Creamery, and The Vape Zone Smokeless. Two additional soil vapor borings (VW-3 and VW-3) were located adjacent the former Wallis Cleaners, located in the vicinity of Any Lab Test Now and Beltone Hearing Aids. Soil vapor boring locations are shown in Figure 2.

Soil samples were collected from each vapor boring at vertical depths of 5 feet or less as the borings were advanced. The soil recovered was used for soil classification (in accordance with the guidelines of ASTM D-2487-85) and PID screening. Subjective field observations of soil samples did not indicated the presence of staining or odors in any of the recovered soil samples. Screening of the recovered soil samples in the field using a PID did not indicate the presence of organic vapors.

Soils encountered in borings B-1 through B-6 to a depth of 40 feet bgs were generally similar in character, consisting of an interbedded sequence of light brown to reddish brown, slightly damp to damp, gravelly sand, sand, and silt to approximately 30-35 feet bgs, at approximately 35 feet bgs the soils changed to a clayey sand. Groundwater was not encountered in any of the soil vapor borings advanced at the site. Soil boring logs describing soil types encountered in each borehole are contained in Appendix B.

To characterize the vertical extent of the dry cleaning VOCs in soil vapor beneath the subject Property soil borings B-1 through B-6 were completed as 40-foot deep nested soil vapor wells (designated VW-1 through VW-6). To construct the nested vapor wells, 1-inch long probe tips, attached to 1/4-inch outside diameter polyethylene tubing, were placed into the boreholes at the planned depths of 5, 10, 15, 20, 25, 30, 35, and 40 feet bgs. A sand pack was placed around the probes (extending 6-inches above and below the probe tips). Each sampling interval was sealed with bentonite grout above and below the sand pack in the annulus of the boring. Soil probe tubing was properly marked at the surface to identify the probe location and depth. The nested vapor wells were subsequently covered by a traffic rated well boxes. In accordance with ADEQ's April 21, 2017 *Soil Vapor Sampling Guidance* document, soil vapor sampling was not conducted for at least 48 hours following vapor probe installation. Soil cuttings generated from the drilling were placed in 55-gallon DOT drums and stored on site pending chemical analysis of the drummed soil.

Soil Vapor Sampling

On October 6, 2017, soil vapor samples were collected from vapor wells VW-1 through VW-6. Vapor samples were initially collected from probes installed at 5, 10, 15, and 20 feet bgs. Prior to sampling, to obtain a sample that represents equilibrated vapor concentrations of the soil surrounding the sampling probe, the well probes were purged at a 200 mL/min default rate 3 to 5 calculated internal well volumes. The purging was conducted using an electric pump supplied by Airtech Environmental Laboratories (AEL). Following the purging, soil vapor samples were then collected from each 5, 10, 15, and 20 foot probe in 1-liter summa canisters equipped with 200 mL/min flow controllers. Duplicate vapor samples were collected from the probe installed in well VW-5 at 20 feet. The summa canisters and flow controllers were supplied by AEL. To evaluate whether ambient air was inadvertently introduced into the soil vapor sample during the collection process, rags moistened with the

leak detection chemical difluoroethane (DFA) were exposed adjacent to the bentonite seal and at all connections of the sampling train. After approximately five minutes the Summa canister valves were closed. The summa canisters were subsequently labeled and transported to an off-site analytical laboratory under chain of custody protocols.

Based on the results of the October 6, 2017 vapor sampling (indicating the continued presence of VOC vapors at depth and no decreasing trend), on October 19, 2017 additional soil vapor samples were collected by ADR from each vapor well probe installed at 25, 30, 35, and 40 feet bgs. The sampling protocol was identical to the October 6 sample collection methods, with a duplicate sample collected again from VW-5, at 40 feet.

6 RESULTS OF LABORATORY ANALYSES

During each of the two sampling events (October 9 and October 19, 2017), ADR submitted a total of 25 soil vapor samples to State of Arizona certified AEL, an analytical lab located in Phoenix, Arizona. Each soil vapor sample collected was analyzed for dry cleaning related VOCs by EPA TO-15. Results of the vapor analyses are compiled in Table 1. Copies of the certified analytical reports for the analyses are contained in Appendix B.

TABLE 1
Soil Vapor Sample Analytical Results
7113, 7115, 7181 & 7189 E. Tanque Verde Road
Tucson, AZ 85715
Vapor concentrations in micrograms per cubic Meter ($\mu\text{g}/\text{m}^3$)

Soil Vapor Sample ID and Location	Sample Depth (Feet bgs)	PCE ¹	TCE ²	trans-1,2-DCE ³	cis-1,2-DCE ⁴	1,1-DCE ⁵	Vinyl Chloride	DFA ⁶
Second Location of Former One Hour Martinizing (near Cold Stone Creamery and The Vape Zone Smokeless)								
VW-1-5'	5	1290	<26.9 ⁷	<19.8	<19.8	<19.9	<12.8	<270
VW-1-10'	10	2380	<26.9 ⁶	<19.8	<19.8	<19.9	<12.8	<270
VW-1-15'	15	2150	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-1-20'	20	2480	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-1-25'	25	4997	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-1-30'	30	3560	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-1-35'	35	4285	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-1-40'	40	6475	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-2-5'	5	2340	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-2-10'	10	2610	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-2-15'	15	2710	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-2-20'	20	2990	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-2-25'	25	3587	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-2-30'	30	4174	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-2-35'	35	5166	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-2-40'	40	6461	<26.9	<19.8	<19.8	<19.9	<12.8	<270
General Vicinity of Former Wallis Cleaners (near Beltone Hearing Aids, Any Lab Test Now and Mayfield Florist)								
VW-3-5'	5	290	<53.7	<39.6	<39.6	<39.7	<25.6	<540
VW-3-10'	10	1210	<53.7	<39.6	<39.6	<39.7	<25.6	<540
VW-3-15'	15	820	<53.7	<39.6	<39.6	<39.7	<25.6	<540
VW-3-20'	20	1170	<53.7	<39.6	<39.6	<39.7	<25.6	<540
VW-3-25'	25	955	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-3-30'	30	1092	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-3-35'	35	1413	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-3-40'	40	1313	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-4-5'	5	2460	<53.7	<39.6	<39.6	<39.7	<25.6	<540
VW-4-10'	10	4110	<53.7	<39.6	<39.6	<39.7	<25.6	<540
VW-4-15'	15	5860	<53.7	<39.6	<39.6	<39.7	<25.6	<540
VW-4-20'	20	4460	<53.7	<39.6	<39.6	<39.7	<25.6	<540

Soil Vapor Sample ID and Location	Sample Depth (Feet bgs)	PCE ¹	TCE ²	trans-1,2-DCE ³	cis-1,2-DCE ⁴	1,1-DCE ⁵	Vinyl Chloride	DFA ⁶
VW-4-25'	25	8678	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-4-30'	30	7933	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-4-35'	35	10440	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-4-40'	40	6848	<26.9	<19.8	<19.8	<19.9	<12.8	<270
Original Location of Former One Hour Martinizing (near Walgreens)								
VW-5-5'	5	1070	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-5-10'	10	1130	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-5-15'	15	1180	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-5-20'	20	1010	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-5-20' (duplicate) Aka VW-7-20'	20	831	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-5-25'	25	3122	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-5-30'	30	3391	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-5-35'	35	2397	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-5-40'	40	2614	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-5-40' (duplicate) Aka VW-7-20'	40	2750	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-6-5'	5	281	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-6-10'	10	496	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-6-15'	15	584	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-6-20'	20	504	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-6-25'	25	972	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-6-30'	30	1173	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-6-35'	35	1091	<26.9	<19.8	<19.8	<19.9	<12.8	<270
VW-6-40'	40	1460	<26.9	<19.8	<19.8	<19.9	<12.8	<270

- PCE¹ = Tetrachloroethene
 TCE² = Trichloroethene
 trans-1,2-DCE³ = trans-1,2-dichloroethene
 cis-1,2-DCE⁴ = cis-1,2-dichloroethene
 1,1-DCE⁵ = 1,1-dichloroethene
 DFA⁶ = Difluoroethane
 <26.9⁷ = Compound not detected at indicated method detection limit (MDL)
 VISLs⁸ = Vapor Intrusion Screening Level (VISL) concentrations for exterior soil gas collected from soil borings and/or sub-slab vapors corresponding to a commercial building target indoor risk of 1x10⁻⁶, established by EPA Office of Solid Waste and Emergency Response (OSWER), May 2016 VISL calculator
 NSL⁹ = No screening level established

As shown in Table 1, laboratory analysis of vapor samples collected from VW-1 through VW-6 detected the presence of the dry cleaning solvent PCE at concentrations ranging from 281 to 10,440 micrograms per cubic meter (µg/m³). Generally, the highest concentrations were detected in vapor well VW-4, located near the former Wallis Cleaner (near current Beltone Hearing Aids Any Lab Test Now and Mayfield Florist). The remaining dry cleaning related VOCs, including TCE, were below laboratory reporting limits.

According to Arizona Administrative Code, Title 18, Chapter 7, soil vapor concentration may be used to estimate the total contaminant concentration in soil if the ADEQ determines that the soil vapor concentration methodology will not be invalidated by the soil, hydrogeology, or other characteristics of the site. As a result, ADR calculated the theoretical PCE concentrations in soil using equation from the "ADEQ Soil Vapor Sampling Guidance", dated July 10, 2008, (Revised May 19, 2011), (Revised April 21, 2017). The results are presented in the table below.

TABLE 2
Theoretical PCE Concentrations in Soil

7113, 7115, 7181 & 7189 E. Tanque Verde Road
Tucson, AZ 85715

Vapor concentrations in micrograms per cubic Meter ($\mu\text{g}/\text{m}^3$)
Theoretical Soil concentrations in micrograms per kilogram ($\mu\text{g}/\text{kg}$)

Soil Vapor Sample ID and Location	Sample Depth (Feet bgs)	PCE ¹ In Soil Vapor	Theoretical PCE in Soil ²
Second Location of Former One Hour Martinizing (near Cold Stone Creamery and The Vape Zone Smokeless)			
VW-1-5'	5	1290	2.0
VW-1-10'	10	2380	3.7
VW-1-15'	15	2150	3.3
VW-1-20'	20	2480	3.9
VW-1-25'	25	4997	7.8
VW-1-30'	30	3560	5.5
VW-1-35'	35	4285	6.7
VW-1-40'	40	6475	10.1
VW-2-5'	5	2340	3.6
VW-2-10'	10	2610	4.1
VW-2-15'	15	2710	4.2
VW-2-20'	20	2990	4.6
VW-2-25'	25	3587	5.6
VW-2-30'	30	4174	6.5
VW-2-35'	35	5166	8.0
VW-2-40'	40	6461	10.0
General Vicinity of Former Wallis Cleaners (near Beltone Hearing Aids, Any Lab Test Now and Mayfield Florist)			
VW-3-5'	5	290	0.5
VW-3-10'	10	1210	1.9
VW-3-15'	15	820	12.7
VW-3-20'	20	1170	1.8
VW-3-25'	25	955	1.5
VW-3-30'	30	1092	1.7
VW-3-35'	35	1413	2.2
VW-3-40'	40	1313	2.0
VW-4-5'	5	2460	3.8
VW-4-10'	10	4110	6.4

Soil Vapor Sample ID and Location	Sample Depth (Feet bgs)	PCE ¹ In Soil Vapor	Theoretical PCE in Soil ²
VW-4-15'	15	5860	9.1
VW-4-20'	20	4460	6.9
VW-4-25'	25	8678	13.5
VW-4-30'	30	7933	12.3
VW-4-35'	35	10440	16.2
VW-4-40'	40	6848	10.6
Original Location of Former One Hour Martinizing (near Walgreens)			
VW-5-5'	5	1070	1.7
VW-5-10'	10	1130	1.8
VW-5-15'	15	1180	1.8
VW-5-20'	20	1010	1.6
VW-5-20' (duplicate) Aka VW-7-20'	20	831	1.3
VW-5-25'	25	3122	4.9
VW-5-30'	30	3391	5.3
VW-5-35'	35	2397	3.7
VW-5-40'	40	2614	4.1
VW-5-40' (duplicate) Aka VW-7-20'	40	2750	4.3
VW-6-5'	5	281	0.4
VW6-10'	10	496	0.8
VW-6-15'	15	584	0.9
VW-6-20'	20	504	0.8
VW-6-25'	25	972	1.5
VW-6-30'	30	1173	1.82
VW-6-35'	35	1091	1.69
VW-6-40'	40	1460	2.3
Regulatory Guidance			
ADEQ – Remedial Action - Soil Remediation Levels (SRLs)			13,000

PCE¹ = Tetrachloroethene
² = Calculated using equation from the "ADEQ Soil Vapor Sampling Guidance," dated July 10, 2008, (Revised May 19, 2011), (Revised April 21, 2017)

7 INDOOR AIR QUALITY SURVEY

On October 6, 2017, ADR conducted an indoor air quality survey within the interior of Walgreens, the Vape Zone Smokeless, and Beltone Hearing Aids. Additionally, to evaluate the potential for outside ambient air to impact the indoor air sampling, one outdoor (background) sample was collected from Summa canisters placed upgradient of the prevailing wind direction (north/northwest) from each former dry cleaner site (total of three background samples). ADR's employed sampling strategy was intended to evaluate the potential for migration of subsurface PCE and related VOC vapors into the aforementioned tenant spaces. Prior to conducting the indoor air sampling, ADR coordinated with property management to ensure that the tenant spaces where sampling was to be performed were brought to representative operational conditions by activating the ventilation system at least 24 hours before sample collection.

Air samples were collected from the tenant spaces and outdoor areas over an 8-hour period in accordance with ADEQ's April 21, 2017 Soil Vapor Sampling Guidance document.

Walk-Through Inspection

On October 6, 2017, Mr. Gary Bender of Bender Environmental Consulting (under contract to ADR) conducted a walk-through inspection of Walgreens, The Vape Zone Smokeless, and Beltone Hearing Aid tenant spaces. The purpose of the walk-through inspection was to identify appropriate air sampling locations within the areas of concern as well as suitable background and control locations. Each of the site locations was visually inspected for activities, circumstances, and/or chemical operations that could influence the integrity of the indoor air samples. In addition, the visual inspection assessed the overall integrity of the installed flooring to identify potential vapor migration pathways (e.g., conduit/piping transitions, cracks, etc.). Initial screening of background indoor air for each space, using a PID, were non-detect. Building surveys and chemical inventory of each tenant space were recorded on Vapor Intrusion Guidance forms (see Appendix D). Specific issues relative to chemical operations and migration pathways are discussed below.

Walgreen – Walgreens sells a wide variety of products which might include small quantities of VOCs including medical supplies, cosmetics, and auto supplies.

The Vape Zone Smokeless - The walk through inspection of this tenant space did not identify the presence of any products containing VOCs in the tenant space.

Beltone Hearing Aids – Beltone sells and services hearing aids and has no chemicals other than non-VOC cleaning supplies.

Climate Data

The climatic conditions for the Tucson area were obtained from Colonia Verde Weather Station KAZTUCS0434, a commercial weather service located in Tucson, Arizona. A summary of climatic data on October 6, 2017, is presented below:

Temperature – The average outdoor temperature for the day of the sampling was 76 degrees Fahrenheit (F) with a high of approximately 95 degrees F.

Wind – The average wind speed ranged from 5 miles per hour gusting to 9 miles per hour, generally from the east and north-northeast. It is not anticipated that the low wind speed would have impacted the indoor air results.

Barometric Pressure – The barometric pressure ranged from 29.73 to 29.85 inches of mercury. Since the changes of barometric pressure during the sampling event were less than 0.2 inches of mercury, the indoor air samples were likely not affected by barometric changes.

Precipitation – There was no measurable precipitation during the sampling event.

Heating, Ventilation and Air Conditioning – The HVAC system was turned on for Walgreens, The Vape Zone Smokeless, and Beltone Hearing Aids during the period of the indoor air survey. The indoor temperatures for all three sites ranged from 70 to 80 degrees F.

Air Sampling

A total of eight air samples (designated Background-1, -2, -3, Walgreens-1, -2, -3, Vape-1, and Beltone-1) were collected at various locations within the designated tenant spaces and outside the building.

- Three outdoor background samples, intended as ambient or background in the prevailing upwind direction, were collected. Sample Background-1 was collected approximately 15 feet north of the rear of Walgreens, Background-2 was collected approximately 20 feet north of Beltone Hearing Aids, and Background-3 was collected approximately 25 feet northwest of The Vape Zone Smokeless.
- Three indoor air samples were collected within Walgreens. Sample Walgreen-1 was collected near the central portion of the southwest wall of the store and Walgreen-2 and Walgreen-3 (a duplicate sample) were collected within the manager's office near the northwest corner of the tenant space.
- One indoor air sample (designated Vape-1) was collected within The Vape Zone Smokeless tenant space. The sample was located within a storage room, near the central portion of the tenant space.
- One indoor air sample was collected from the Beltone Hearing Aid tenant space. Sample Beltone-1 was collected within the northwestern portion of the tenant space.

Air samples were collected at each of the sampling locations using evacuated, six liter Summa polished stainless steel canisters. Each of the Summa canisters and flow controllers were batch certified as clean at the analytical laboratory prior to use in the field. Pre-set flow controllers were connected to the canisters to meter airflow into the canisters over the course of the approximate 8-hour sampling period. Dedicated vacuum gauges were used to monitor the canister fill rates. The sample inlets of the Summa canisters were positioned within the breathing zone, approximately five feet above grade. At the completion of the sampling period, the final vacuum readings were recorded, the sample valves were closed, the flow controllers were removed and the sample inlets were capped.

At the completion of the sampling, the sampling canisters were sealed and transported to AEL for analyses.

8 RESULTS OF AIR LABORATORY ANALYSES

ADR submitted a total of eight air samples to the State of Arizona certified laboratory (AEL), located in Phoenix, Arizona for dry cleaning related VOC analysis by EPA Method TO-15. The results of the air sample analyses are compiled in Table 3. Copies of the certified analytical reports for the analyses are contained in Appendix C.

TABLE 3
Indoor and Outdoor Air Sample Analytical Results

7113, 7115, 7181 & 7189 E. Tanque Verde Road
Tucson, AZ 85715
Vapor concentrations in micrograms per cubic Meter ($\mu\text{g}/\text{m}^3$)

Sample Number	Location of Sample	Date Sampled	Sample Duration	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Vinyl Chloride	Remaining VOCs ¹
Walgreens-1	Interior Walgreens, Retail area	10/6/17	8-hr	<3.39 ²	<2.69	<1.28	ND ³
Walgreens-2	Interior Walgreens, Manager Office	10/6/17	8-hr	<3.39	<2.69	<1.28	ND
Walgreens-3	Duplicate of AIR-2	10/6/17	8-hr	<3.39	<2.69	<1.28	ND
Vape-1	Interior The Vape Zone Smokeless – north end	10/6/17	8-hr	<3.39	<2.69	<1.28	ND
Beltone-1	Interior Beltone, Near rear	10/6/17	8-hr	<3.39	<2.69	<1.28	ND
Background-1	Outside - Northwest of Coldstone (in dumpster area)	10/6/17	8-hr	<3.39	<2.69	<1.28	ND
Background-2	Outside – North of Beltone	10/6/17	8-hr	<3.39	<2.69	<1.28	ND
Background-3	Outside – North of Walgreens	10/6/17	8-hr	<3.39	<2.69	<1.28	ND

VOCs¹ = Volatile Organic Compounds
<3.39² = Compound not detected at indicated method detection limit
ND³ = Not detected; see Attachment B for constituent reporting limits

As indicated in Table 3, none of the dry cleaning related VOCs, including PCE, were detected in the indoor and background air samples collected.

9 SUMMARY AND CONCLUSIONS

On September 28 and 29, 2017, as required by ADEQ, ADR directed the advancement of six 6-inch diameter soil vapor borings (two per former dry cleaning site) to a depth of 40 feet bgs. Groundwater, reportedly present at a depth exceeding 230 feet bgs, was not encountered by any of the borings advanced at the site. Soils encountered in borings B-1 through B-6 to a depth of 40 feet bgs were generally similar in character, consisting of an interbedded sequence of light brown to reddish brown, slightly damp to damp, gravelly sand, sand, and silt to approximately 30-35 feet bgs, at approximately 35 feet bgs the soils changed to a clayey sand.

Soil Vapor Results

To characterize the vertical extent of the dry cleaning VOCs in soil vapor beneath the subject Property, soil borings B-1 through B-6 were completed as 40-foot deep nested soil vapor wells (designated VW-1 through VW-6). Soil vapor probes were installed in each well at depths of 5, 10, 15, 20, 25, 30, 35, and 40 feet bgs

Laboratory analysis of vapor samples collected from VW-1 through VW-6 detected the presence of the dry cleaning solvent PCE at concentrations ranging from 281 to 10,440 $\mu\text{g}/\text{m}^3$, with an increasing trend as the samples went deeper. Generally, the highest concentrations were detected in vapor well VW-4, located near the former Wallis Cleaner (near current Beltone Hearing Aids Any Lab Test Now and Mayfield Florist). The remaining dry cleaning related VOCs, including TCE, were below laboratory reporting limits.

Based on the results of the subsurface investigation which do not indicate a decreasing trend of PCE concentrations, ADR anticipates requirements from ADEQ to complete an additional assessment that will include additional soil vapor investigations. The additional investigation would consist of advancing and sampling deeper vapor wells in the areas of concern identified in this report. In accordance with ADEQ's Work Plan approval (for this sampling round), soil vapor samples should be collected until three consecutive samples of decreasing concentration are encountered. Following the results of the additional assessment, the course of further action, if any, could be determined.

Air Sample Quality Survey

An 8-hour indoor air monitoring survey was completed by ADR at Walgreen, The Vape Zone Smokeless, and Beltone Hearing Aids on October 6, 2017. The purpose of the air sampling was intended to evaluate potential health risks to human receptors posed by the inhalation of dry cleaning VOCs in air within the tenant spaces. The air samples collected were analyzed for dry cleaning related VOCs, including the solvent PCE.

As indicated in Table 3, none of the dry cleaning related VOCs, including PCE were detected in any of the indoor or background air samples collected. Based on the absence of VOC compounds identified in indoor air in all samples no apparent health hazard exists for the employees and customers of these businesses. Based on the results, no additional indoor air sampling appears necessary.

10 RELIANCE AND LIMITATIONS

The conclusions presented in this report are professional opinions based solely upon the Scope of Services described in this report. They are intended exclusively for the use of Westwood Financial LLC or agents specified by it. The Scope of Services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any re-use of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user. It should be recognized that this study was not intended to be a definitive investigation of potential contamination at the subject Property. Given that the Scope of Services for this investigation was limited, it is possible that currently unrecognized contamination might exist at the site.

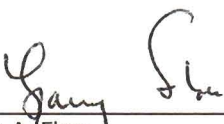
Services performed by ADR were conducted in a manner consistent with that of the same care and skill ordinarily exercised by members of the same profession currently practicing in the same locality under the same conditions. It is important to recognize that even the most comprehensive scope of services may fail to detect environmental liabilities on a particular site and that ADR cannot "certify" that a site is free of all environmental contamination. No expressed or implied representation or warranty is included or intended in our reports except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession. In the event of any conflict between the terms and conditions of this report and the terms and conditions of the master services agreement between Westwood Financial LLC and ADR (the "MSA"), the MSA shall control.

11 SIGNATURE PAGE

This Report was prepared in accordance with generally accepted environmental practices and procedures, employing the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental professionals practicing in this area, as of the date of this Report.

Report Prepared By:

Report Reviewed By:



Larry A. Flora
Project Geologist



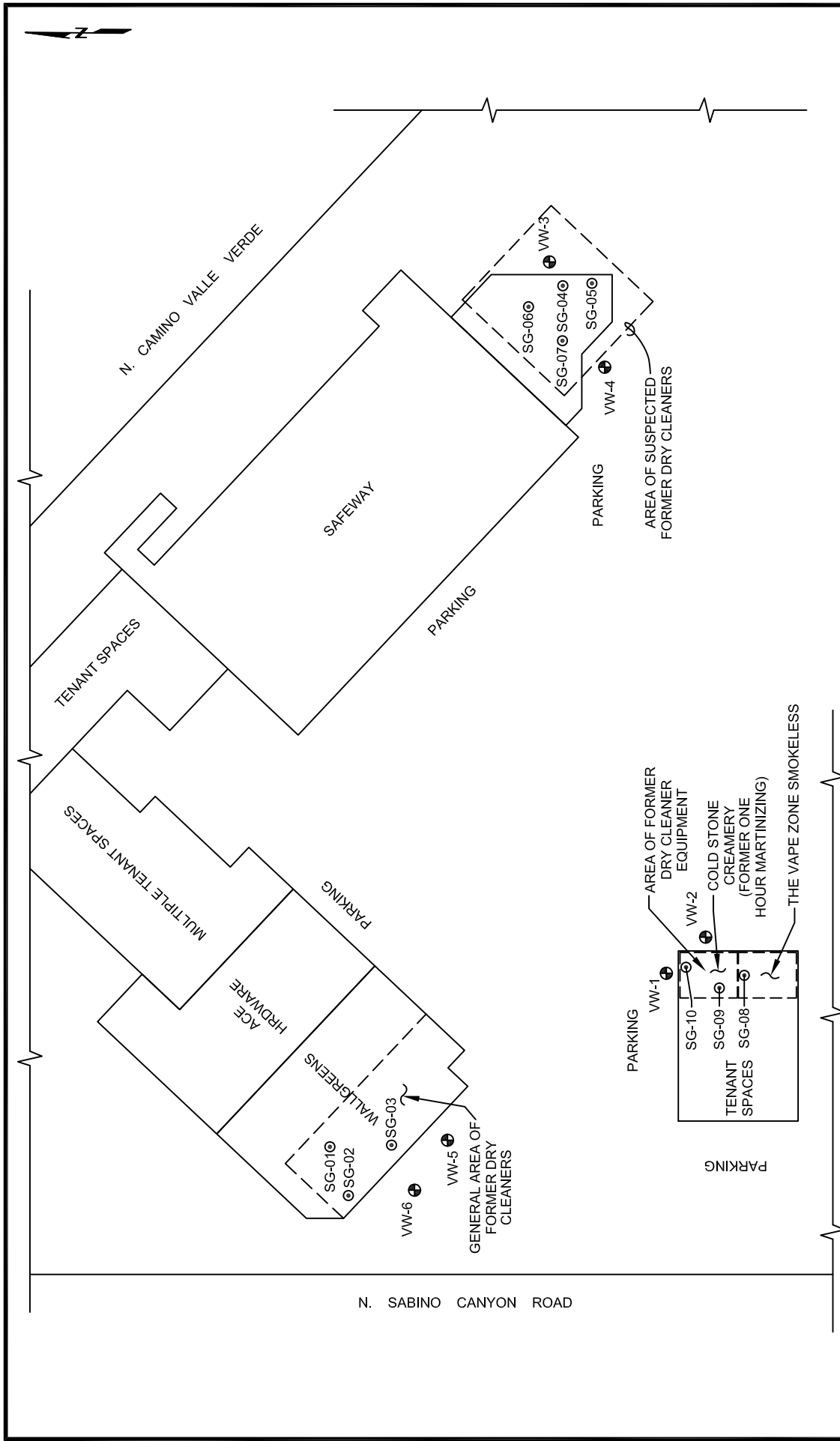
Kevin F. Gallagher
Project Manager

Report Reviewed By:

Gary Bender
Arizona Registered Geologist #26762



FIGURES

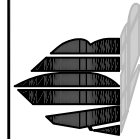


LEGEND

- SUB-SLAB BORING LOCATION BY ADR, JULY 2016
- VAPOR WELL TO 40'



SCALE, FEET (APPROX.)



ADR Environmental Group, Inc.

Due Diligence and Risk Management

Services Nationwide

(888) 622-3734

SITE PLAN / VAPOR WELL LOCATIONS

Area of Former Dry Cleaners

7113, 7115, 7187 & 7189

E. Tanque Verde Rd., Tucson, Arizona

Project Number: WWFC 01-16-327-AZ (A-3)

Date:

October 2017

FIGURE:

2

ATTACHMENT A

**SAMPLING METHODS AND FIELD
PROCEDURES**

SAMPLING METHODS AND FIELD PROCEDURES

This attachment describes procedures to be followed by ADR Environmental Group, Inc. (ADR), during collection of samples of subsurface soil. Sampling procedures were based on sampling guidance documents from the American Society of Testing and Materials (ASTM) and ADEQ guidance documents

A. EXPLORATION BORING/AND SOIL VAPOR SAMPLING PROCEDURES

Soil vapor sampling will be performed under the direction of an ADR geologist. The soil borings will be advanced using truck-mounted hollow stem auger (HSA) drilling techniques as specified in the project Work Plan. Soil samples will be collected from each soil boring at five-foot intervals as the borings are advanced with a 2" diameter split-spoon sampler. After sampler retrieval the soil recovered will be used for soil classification (in accordance with the guidelines of ASTM D-2487-85) and photoionization detector (PID) screening.

Forty foot nested vapor wells will be installed into each borehole (with probes installed at five-foot intervals). Following a 48-hour wait period, selected vapor samples will be collected from each boring in 1-Liter summa canisters.

The HSA soil sampling assembly will be cleaned to prevent contamination across sampling intervals using procedures described in Section B. Any soil generated from the soil borings will be stored in 55-gallon drums (unless otherwise directed by agencies or the client) or other appropriate containers and labeled with the corresponding boring number, date, and address of the facility.

B. DECONTAMINATION AND DISPOSAL PROCEDURES

All equipment that comes into contact with potentially contaminated soil, drilling fluid, air, or water will be decontaminated before each use.

Drilling and sampling equipment will be decontaminated as follows:

1. Drill rig rods and samplers will be washed with a TSP solution prior to use and between borings. Visible soil, grease, and other impurities will be removed.
2. Soil sampling equipment will be washed with a TSP solution prior to use and between each boring. Prior to individual sample collection, any sampling device will also be cleaned in a TSP solution and rinsed twice in clean water. Any visible soil residue will be removed.

B.1 Buried Utility Locations

Prior to commencement of work on site, ADR will notify Arizona 811 which will contact the appropriate utility companies to have underground utility lines located. ADR may also contract with a private utility locator, for the location of utilities beyond meters. ADR will also visually survey the site to estimate the locations of potentially unmarked underground utilities.

B.2 Lithologic Logging

Logs of soil conditions encountered during the drilling and sample collection will be maintained using the ASTM D-2487-85 classification system by an ADR geologist.

The collected soil samples will be examined and the following information recorded: boring location, sample interval and depth, color, soil type, moisture content (qualitative), and depth at which groundwater (if present) is first encountered. Also recorded on the soil boring logs will be the field screening results derived from the use of a portable PID.

B.3 Disposal Procedures

Residual substances generated during cleaning procedures (if any) that are known or suspected to pose a threat to human health or the environment will be placed in appropriate containers until chemical testing has been completed to determine the proper means for their disposal.

C. SAMPLE CUSTODY

Soil vapor sample custody procedures will be followed through sample collection, transfer, analysis, and ultimate disposal. The purpose of these procedures is to assure that (1) the integrity of samples is maintained during their collection, transportation, and storage prior to analysis and (2) post-analysis sample material is properly disposed of. Sample custody is divided into field procedures and laboratory procedures, as described below.

C.1 Field Custody Procedures

Soil vapor sample quantities, types, and locations will be determined before the actual fieldwork commenced. As few personnel as possible will handle the samples. The field sampler will be personally responsible for the care and custody of the collected samples until they were properly transferred.

C.1.1 Field Documentation

Each vapor sample will be labeled and sealed properly immediately after collection. Sample identification documents will be carefully prepared so that identification and chain-of-custody records can be maintained and sample disposition can be controlled. Forms will be filled out with waterproof ink. The following sample identification documents will be utilized.

- Field notebook or soil boring logs
- Chain-of-custody forms

C.1.2 Sample Labels

The intact vapor samples will be labeled with the following information:

- Name of collector
- Date and time of collection
- Place of collection and/or ADR project number
- Sample number

C.1.3 Chain-of-Custody Record

A chain-of-custody record will be filled out for and accompanied every sample and every shipment of samples to the analytical laboratories in order to establish the documentation necessary to trace sample possession from the time of collection. The record will contain the following information:

- Sample number or sample I.D.
- Signature of collector, sampler, or recorder.
- Date and time of collection.
- Place of collection.
- Sample type.
- Signatures of persons involved in the chain of possession.
- Inclusive dates of possession.

C.1.4 Sample Transfer and Shipment

A chain-of-custody record will always accompany the samples. When transferring samples, the individuals relinquishing and receiving the samples will sign, date, and note the time on the chain-of-custody record.

C.2 Corrections to Documentation

Original data recorded in field notebooks, chain-of-custody records, sampling information sheets, and other forms will not be altered, destroyed, or discarded, even if they are illegible or contain inaccuracies that require a replacement document.

If an error is made or found on a document, the individual making the corrections will do so by crossing a single line through the error, entering the correct information, and initialing and dating the change. The erroneous information will not be obliterated.

C.3 Sample Storage and Disposal

The analytical laboratory typically retains samples and extracts for 60 days after the laboratory issues a written report. Unless notified by the program manager, the laboratory should dispose of excess or unused samples in an appropriate manner consistent with applicable government regulations.

APPENDIX B

BORING LOGS

ADR Environmental Group, Inc.

Log of Soil Boring: VW-1		Vapor Monitoring Device: MiniRae 2000 PID	
Location: Colina Verde Shopping Center 7111-7189 E. Tanque Verde Road Tucson, Arizona	Drilling	Time	Date 9/28/17
	Start:		
	Finish Drilling:	Finish Well:	9/28/17
Project Number: WWFC 01-16-327-AZ (A-3)		Water Depth (Date): NA Casing Elevation: NA Completion Depth: 40' Logged By: G. Bender, R.G. Checked By: K. Gallagher	
Drilling Company: Geomechanics Southwest Drilled By: Eric Shafer (CME-75) Drilling Method: Hollow Stem Auger (7" O.D.) Sampling Method: Split Spoon			

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		ASPHALT SURFACE									
1		4" Asphalt Surface									
2		6" AB									
3											
4											
5											
6		FILL-Silt, some gravel, loose, dry.				6/8	12	12	No Odor		Ø
7											
8											
9											
10		GRAVELLY SAND-Light Reddish Brown, slightly damp, loose, gravel to 1/2"; some Silt.				8/20	12	12	No Odor		Ø
11											
12											
13											
14											
15		SAND-Light Reddish Brown, slightly damp, fine to medium sand; trace Gravel.				18/24	12	12	No Odor		Ø
16											
17											
18											
19											
20		SAME AS ABOVE- Increasing gravel to 10%, up to 1" subrounded.				14/18	12	12	No Odor		Ø
21											
22											
23											
24											
25		SAME AS ABOVE- some gravel to 1/4", slightly damp, loose.				7/15	12	12	No Odor		Ø
26											
27											
28											
29											
30		GRAVELLY SAND- Light Brown, dense, damp, some Clay and Silt; gravel up to 1".				23/27	12	12	No Odor		Ø
31											
32											
33											
34											
35		SILT w/SAND-Rusty Yellowish Brown, very fine sand, firm.				7/15	12	12	No Odor		Ø
36											
37											
38											
39		SAND w/GRAVEL-Reddish Brown, some Silt & Clay, damp to slightly moist, dense.				17/20	12	12	No Odor		Ø
40											
41											
42											
43											

WWFC-327-B1 10/17-17 PYM

SAMPLE TO 40'
OVERDRILL TO 43' (SET VAPOR PROBES)

ADR Environmental Group, Inc.												
Log of Soil Boring: VW-2					Vapor Monitoring Device: MiniRae 2000 PID							
Location: Colina Verde Shopping Center (East Side of Cold Storage) Tucson, Arizona					Drilling			Time		Date 9/28/17		
					Start:							
					Finish Drilling:		Finish Well:		9/28/17			
Project Number: WWFC 01-16-327-AZ (A-3)					Water Depth (Date): NA							
Drilling Company: Geomechanics Southwest					Casing Elevation: NA							
Drilled By: Eric Shafer (CME-75)					Completion Depth: 40'							
Drilling Method: Hollow Stem Auger (7" O.D.)					Logged By: G. Bender, R.G.							
Sampling Method: Split Spoon					Checked By: K. Gallagher							
Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)	
0		ASPHALT SURFACE										
1		4" Asphalt Surface 8" AB										
2												
3												
4				SW								
5												
6		GRAVELLY SAND-Light Reddish Brown, moist, loose, gravel to 2".				10/10	12	12	No Odor		Ø	
7												
8												
9												
10		SAND-Light Reddish Brown, trace gravel, loose, moist, gravel to 1/2"				8/8	12	12	No Odor		Ø	
11												
12												
13												
14												
15		SAME AS ABOVE- Trace gravel.				35/20	12	12	No Odor		Ø	
16												
17				SP								
18												
19												
20		SAME AS ABOVE- Increasing gravel to 5%, stiff, mostly coarse sand.				15/25	12	12	No Odor		Ø	
21												
22												
23												
24												
25		SAME AS ABOVE- Light Brown, Increasing gravel to 10 to 15%, gravel to 2", damp, loose.				20/24	12	12	No Odor		Ø	
26												
27												
28												
29												
30		SANDY GRAVEL w/CLAY-Light Brown, gravel up to 2-1/2", loose, slightly damp.		GW		50/4	12	12	No Odor		Ø	
31												
32												
33												
34												
35		SILT-Medium Reddish Brown, some sand, caliche, damp, firm.		ML		20/38	12	12	No Odor		Ø	
36												
37												
38												
39		CLAYEY SAND-Light Reddish Brown, trace gravel, coarse sand, damp to slightly moist.		SC		20/30	12	12	No Odor		Ø	
40												
41												
42												
43												
						SAMPLE TO 40'						
						OVERDRILL TO 43' (SET VAPOR PROBES)						

WWFC-327-B2 10/17-17 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: VW-3		Vapor Monitoring Device: MiniRae 2000 PID	
Location: Colina Verde Shopping Center (East of Beltone) Tucson, Arizona	Drilling	Time	Date 9/28/17
	Start:		
	Finish Drilling:	Finish Well:	9/28/17
Project Number: WWFC 01-16-327-AZ (A-3)		Water Depth (Date): NA	
Drilling Company: Geomechanics Southwest		Casing Elevation: NA	
Drilled By: Eric Shafer (CME-75)		Completion Depth: 40'	
Drilling Method: Hollow Stem Auger (7" O.D.)		Logged By: G. Bender, R.G.	
Sampling Method: Split Spoon		Checked By: K. Gallagher	

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		ASPHALT SURFACE									
1		4" Asphalt Surface 8" AB									
2		FILL-Sand /Gravel, some silt, loose.		FILL							
5		GRAVELLY SAND-Light Reddish Brown, damp, loose, ~20% gravel to 2".		SW		19/24	12	12	No Odor		Ø
10		SILTY SAND-Light Brown, some gravel 5-10%, slightly damp, loose.				8/10	12	12	No Odor		Ø
15		SAME AS ABOVE- Less gravel.				18/20	12	12	No Odor		Ø
20		SAME AS ABOVE- Increasing gravel to 5%.				10/14	12	12	No Odor		Ø
25		GRAVELLY SAND w/SILT-Light Brown, increasing gravel size to 2", up to 20-30%, very hard, damp.				24/50 6"	12	12	No Odor		Ø
30		SAME AS ABOVE-Gravel to 30%, large gravel at 33', loose, slightly damp.		SW		20/30	12	12	No Odor		Ø
35		CLAYEY SILT-Yellowish Brown, some sand, moist, firm; some sandier interlayers.		ML		10/18	12	12	No Odor		Ø
40		SAME AS ABOVE-Less silt, more clayey and more sand, moist.				10/16	12	12	No Odor		Ø
41		SAMPLE TO 40'									
43		OVERDRILL TO 43' (SET VAPOR PROBES)									

WWFC-327-B3 10/17-17 PYM

ADR Environmental Group, Inc.











Log of Soil Boring: VW-4		Vapor Monitoring Device: MiniRae 2000 PID	
Location: Colina Verde Shopping Center (South of Beltone) Tucson, Arizona	Drilling	Time	Date 9/28/17
	Start:		
	Finish Drilling:	Finish Well:	9/28/17
Project Number: WWFC 01-16-327-AZ (A-3)		Water Depth (Date): NA Casing Elevation: NA Completion Depth: 40' Logged By: G. Bender, R.G. Checked By: K. Gallagher	
Drilling Company: Geomechanics Southwest Drilled By: Eric Shafer (CME-75) Drilling Method: Hollow Stem Auger (7" O.D.) Sampling Method: Split Spoon			

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		ASPHALT SURFACE									
1		4" Asphalt Surface 8" AB									
2		FILL-Sand /Silt, loose.		FILL							
5		SAND w/GRAVEL-Light Reddish Brown, some clay, damp, loose.		SP		5/4	12	12	No Odor		Ø
10		GRAVELLY SAND-Light Brown, some clay, ~30% gravel to 1/2", damp, firm.				17/20	12	12	No Odor		Ø
15		SAND w/GRAVEL-some clay, ~10% gravel to 1", most less then 1/4", moist, firm.		SW		18/24	12	12	No Odor		Ø
20		SAME AS ABOVE-Less then 10% gravel, rest is coarse sand with clay.				10/23	12	12	No Odor		Ø
25		GRAVELLY SAND w/CLAY-Increasing gravel to 20-30%.				18/24	12	12	No Odor		Ø
30		SANDY GRAVEL-Large cobbles, some clay and silt.		GW		20/24	12	12	No Odor		Ø
35		CLAYEY SAND-Medium Reddish Brown, some gravel, damp to moist, firm.		SC		13/26	12	12	No Odor		Ø
40		SAME AS ABOVE-<5% gravel, moist.				24/29	12	12	No Odor		Ø
SAMPLE TO 40'											
OVERDRILL TO 43' (SET VAPOR PROBES)											

WWFC-327-B4 10/17-17 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: VW-5		Vapor Monitoring Device: MiniRae 2000 PID	
Location: Colina Verde Shopping Center (South West Side of Walgreens) Tucson, Arizona	Drilling	Time	Date 9/28/17
	Start:		
	Finish Drilling:	Finish Well:	9/28/17
Project Number: WWFC 01-16-327-AZ (A-3)		Water Depth (Date): NA Casing Elevation: NA Completion Depth: 40' Logged By: G. Bender, R.G. Checked By: K. Gallagher	
Drilling Company: Geomechanics Southwest Drilled By: Eric Shafer (CME-75) Drilling Method: Hollow Stem Auger (7" O.D.) Sampling Method: Split Spoon			

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		GRAVEL SURFACE									
1		3" Ornamental Gravel									
2		FILL to ~ 3-4', sand/gravel, some clay.		FILL							
3											
4											
5		SAND w/GRAVEL- Reddish Brown, damp, firm.		SW		7/8	12	12	No Odor		Ø
6											
7											
8											
9											
10		SAND-Some clay and gravel, <10% gravel to 1/4", loose, slightly damp.		SP		8/9	12	12	No Odor		Ø
11											
12											
13											
14											
15		GRAVELLY SAND-Some clay, ~30-40% gravel 1/2" to 1", damp, loose.		SW		8/9	12	12	No Odor		Ø
16											
17											
18											
19											
20		SAND-Some clay, trace gravel, some dry coarse sand, fine gravel, damp.		SP		8/14	12	12	No Odor		Ø
21											
22											
23											
24											
25		SAME AS ABOVE--5% fine gravel.				10/17	12	12	No Odor		Ø
26											
27											
28											
29											
30		GRAVELLY SAND-Light Yellowish Brown, some clay, rocks up to 3", damp.		SW		22/50 4"	12	12	No Odor		Ø
31											
32											
33											
34											
35		CLAYEY SAND-Medium Reddish Brown, some gravel, moist, ~10% gravel to 1/2".		SC		18/24	12	12	No Odor		Ø
36											
37											
38											
39											
40		SAME AS ABOVE-Loose moist gravel.				11/25	12	12	No Odor		Ø
41											
42											
43											
									SAMPLE TO 40'		
									OVERDRILL TO 43' (SET VAPOR PROBES)		

WWFC-327-B5 10/17-17 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: VW-6		Vapor Monitoring Device: MiniRae 2000 PID	
Location: Colina Verde Shopping Center (West of Walgreens) Tucson, Arizona	Drilling	Time	Date 9/28/17
	Start:		
	Finish Drilling:	Finish Well:	9/28/17
Project Number: WWFC 01-16-327-AZ (A-3)		Water Depth (Date): NA Casing Elevation: NA Completion Depth: 40' Logged By: G. Bender, R.G. Checked By: K. Gallagher	
Drilling Company: Geomechanics Southwest Drilled By: Eric Shafer (CME-75) Drilling Method: Hollow Stem Auger (7" O.D.) Sampling Method: Split Spoon			

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		GRAVEL SURFACE									
1		6" Ornamental Gravel									
2		FILL to ~ 3-4', sand/gravel, some clay.									
3											
4											
5		FILL-Some silt, sand, loose, damp.									
6						5/11	12	12	No Odor		Ø
7											
8											
9											
10		FILL-Silty, disturbed, some charcoal.									
11						10/25	12	12	No Odor		Ø
12											
13											
14											
15		SAND-Reddish Brown, some gravel & clay, damp, loose, ~10% gravel to 1".									
16						26/33	12	12	No Odor		Ø
17											
18											
19											
20		SAME AS ABOVE-<5% gravel, damp.									
21						19/26	12	12	No Odor		Ø
22											
23											
24											
25		SAME AS ABOVE-Gravel increase to 20%.									
26						7/29	12	12	No Odor		Ø
27											
28		Large cobbles @ 28'									
29											
30		SANDY GRAVEL-Some clay, ~60% gravel to 2", damp, very hard.									
31						50/6"	12	12	No Odor		Ø
32											
33											
34											
35		CLAYEY GRAVEL w/SAND-Reddish Brown, moist, gravel up to 2".									
36						15/33	12	12	No Odor		Ø
37											
38											
39		CLAYEY SAND-Some gravel, very dense, moist, ~60% coarse granitic sand, 30% clay, <5% gravel.									
40						18/32	12	12	No Odor		Ø
41											
42											
43											

WWFC-327-B6 10/17-17 PYM

SAMPLE TO 40'
OVERDRILL TO 43' (SET VAPOR PROBES)

APPENDIX C

**LABORATORY ANALYSIS REPORTS AND
CHAIN OF CUSTODY FORMS**



Airtech Environmental Laboratories (AEL)

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Date: October 14, 2017

Client:	Kevin Gallagher	Work Order #:	17J008
Company:	ADR Environmental Group	Project Name:	Colonia Verde
Address:	225 30th Street, Ste 202	Project Number:	WWFC -01-16-327-AZ
	Sacramento, CA 95816	Received Date:	10/9/2017

Dear Client:

Airtech Environmental Laboratories received twenty five (25) samples for analysis.

All analyses met laboratory QA/QC with any exceptions addressed in the Case Narrative.

If you have any questions or concerns regarding your samples analysis, please contact the laboratory at 480-968-5888

Sincerely,

Yu Min Shi
Technical Director
Airtech Environmental Labs

Arizona ADHS License No. AZ0740



Airtech Environmental Laboratories (AEL)

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Date: October 14, 2017

Client: Kevin Gallagher	Work Order #: 17J008
Company: ADR Environmental Group	Project Name: Colonia Verde
Address: 225 30th Street, Ste 202	Project Number: WWFC -01-16-327-AZ
Sacramento, CA 95816	Received Date: 10/09/17

Case Narrative

All samples and QC associated with your samples met the quality control objectives.
Data qualifiers in this report are in accordance with ADEQ Data Qualifiers.



Airtech Environmental Laboratories (AEL)

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Date: October 14, 2017

Client: Kevin Gallagher	Work Order #: 17J008
Company: ADR Environmental Group	Project Name: Colonia Verde
Address: 225 30th Street, Ste 202	Project Number: WWFC -01-16-327-AZ
Sacramento, CA 95816	Received Date: 10/9/2017

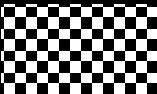
SAMPLE SUMMARY

LAB ID	CLIENT ID	METHOD	SAMPLE DATE	SAMPLE TIME
17J008-01	VW-4-5'	TO-15	10/6/2017	0930
17J008-02	VW-4-10'	TO-15	10/6/2017	0931
17J008-03	VW-4-15'	TO-15	10/6/2017	0932
17J008-04	VW-4-20'	TO-15	10/6/2017	0933
17J008-05	VW-3-5'	TO-15	10/6/2017	1020
17J008-06	VW-3-10'	TO-15	10/6/2017	1021
17J008-07	VW-3-15'	TO-15	10/6/2017	1022
17J008-08	VW-3-20'	TO-15	10/6/2017	1023
17J008-09	VW-1-5'	TO-15	10/6/2017	1105
17J008-10	VW-1-10'	TO-15	10/6/2017	1106
17J008-11	VW-1-15'	TO-15	10/6/2017	1107
17J008-12	VW-1-20'	TO-15	10/6/2017	1108
17J008-13	VW-2-5'	TO-15	10/6/2017	1225
17J008-14	VW-2-10'	TO-15	10/6/2017	1226
17J008-15	VW-2-15'	TO-15	10/6/2017	1227
17J008-16	VW-2-20'	TO-15	10/6/2017	1228
17J008-17	VW-5-5'	TO-15	10/6/2017	1310
17J008-18	VW-5-10'	TO-15	10/6/2017	1311
17J008-19	VW-5-15'	TO-15	10/6/2017	1312
17J008-20	VW-5-20'	TO-15	10/6/2017	1313
17J008-21	VW-7-20'	TO-15	10/6/2017	1305
17J008-22	VW-6-5'	TO-15	10/6/2017	1355
17J008-23	VW-6-10'	TO-15	10/6/2017	1356
17J008-24	VW-6-15'	TO-15	10/6/2017	1357
17J008-25	VW-6-20'	TO-15	10/6/2017	1358

**Airtech Environmental Laboratories (AEL) - AZ 0740**

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	Kevin Gallagher	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	N/A
Lab ID:	Kits QC	Matrix:	Air

		Canister				Grab Sampler	
		Type 1.0 liter		Vacuum before sampled	Pressure after sampled	Type 1 minute-fill 1.0L canister	
		SN#	Clean Batch#	Hg inch	psia	SN#	Clean Batch#
17J008-01	VW-4-5'	1869	1709-14	29.0	12.53	113	1709-01
17J008-02	VW-4-10'	1837	1709-14	29.0	11.81	032	1709-01
17J008-03	VW-4-15'	E2392	1709-14	29.0	10.01	055	1709-01
17J008-04	VW-4-20'	1832	1709-14	29.0	12.06	076	1709-01
17J008-05	VW-3-5'	E2095	1709-14	29.0	10.88	080	1709-01
17J008-06	VW-3-10'	1826	1709-14	29.0	11.27	025	1709-01
17J008-07	VW-3-15'	1881	1709-14	29.0	10.50	128	1709-01
17J008-08	VW-3-20'	1877	1709-14	29.0	11.84	036	1709-01
17J008-09	VW-1-5'	E2085	1709-15	29.0	12.39	173	1709-01
17J008-10	VW-1-10'	E2347	1709-15	29.0	12.31	110	1709-08
17J008-11	VW-1-15'	E2362	1709-15	29.0	10.26	178	1709-01
17J008-12	VW-1-20'	E2366	1709-14	29.0	11.83	058	1709-01
17J008-13	VW-2-5'	E2402	1709-05	29.0	10.83	108	1709-01
17J008-14	VW-2-10'	1853	1709-14	29.0	10.68	218	1709-01
17J008-15	VW-2-15'	E2099	1709-15	29.0	10.88	205	1708-04
17J008-16	VW-2-20'	E2893	1709-15	29.0	11.96	186	1708-04
17J008-17	VW-5-5'	E2351	1709-06	29.0	12.33	070	1709-01
17J008-18	VW-5-10'	1834	1709-05	29.0	9.50	212	1708-05
17J008-19	VW-5-15'	1801	1709-15	29.0	10.86	103	1709-01
17J008-20	VW-5-20'	1839	1709-15	29.0	12.35	176	1709-01
17J008-21	VW-7-20'	E2370	1709-13	29.0	10.11	155	1709-01
17J008-22	VW-6-5'	1888	1709-13	29.0	12.38	127	1709-01
17J008-23	VW-6-10'	E2391	1709-13	29.0	10.06	139	1709-01
17J008-24	VW-6-15'	E2102	1709-13	29.0	11.59	089	1709-01
17J008-25	VW-6-20'	1882	1709-13	29.0	12.55	131	1709-01



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-4-5'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	01	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/13/2017	156-59-2
Tetrachloroethene	363	20	2,460	136		20	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/13/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/13/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	104	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 200	200	ppbv		T4	20	10/13/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-4-10'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	02	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/13/2017	156-59-2
Tetrachloroethene	606	20	4,110	136		20	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/13/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/13/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	105	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 200	200	ppbv		T4	20	10/13/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-4-15'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	03	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-59-2
Tetrachloroethene	864	20	5,860	136		20	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/12/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	70.4	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 200	200	ppbv		T4	20	10/12/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-4-20'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	04	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/13/2017	156-59-2
Tetrachloroethene	658	20	4,460	136		20	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/13/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/13/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	100	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 200	200	ppbv		T4	20	10/13/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-3-5'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	05	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-59-2
Tetrachloroethene	43	20	290	136		20	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/12/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	92.4	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/12/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-3-10'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	06	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15						Analyst: YM	
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-59-2
Tetrachloroethene	179	20	1,210	136		20	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/12/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	105	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/12/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-3-15'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	07	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR		TO-15					Analyst: YM	
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-59-2
Tetrachloroethene	118	20	800	136		20	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/12/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	99.4	70-130	%REC					
<u>Tentatively Identified Compounds (TIC's)</u>								
Difluoroethane	< 200	200	ppbv		T4	20	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-3-20'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	08	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-59-2
Tetrachloroethene	172	20	1,170	136		20	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/12/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/12/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	110	70-130	%REC					
<u>Tentatively Identified Compounds (TIC's)</u>								
Difluoroethane	< 200	200	ppbv		T4	20	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-1-5'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	09	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-59-2
Tetrachloroethene	190	10	1,290	67.8		10	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/12/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	106	70-130	%REC					
<u>Tentatively Identified Compounds (TIC's)</u>								
Difluoroethane	< 100	100	ppbv		T4	10	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-1-10'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	10	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15						Analyst: YM	
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-59-2
Tetrachloroethene	351	10	2,380	67.8		10	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/12/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	109	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-1-15'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	11	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR		TO-15		Analyst: YM				
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-59-2
Tetrachloroethene	317	10	2,150	67.8		10	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/12/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	114	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-1-20'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	12	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-59-2
Tetrachloroethene	365	10	2,480	67.8		10	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/12/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	113	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-2-5'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	13	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-59-2
Tetrachloroethene	345	10	2,340	67.8		10	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/12/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	119	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-2-10'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	14	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR		TO-15		Analyst: YM				
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-59-2
Tetrachloroethene	386	10	2,610	67.8		10	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/12/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	118	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-2-15'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	15	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-59-2
Tetrachloroethene	400	10	2,710	67.8		10	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/12/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	116	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 100	100	ppbv		T4	10	10/12/2017
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Client:	ADR Environmental Group	Client Sample ID:	VW-2-20'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	16	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-59-2
Tetrachloroethene	441	10	2,990	67.8		10	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/13/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	106	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/13/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-5-5'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	17	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR		TO-15		Analyst: YM				
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-59-2
Tetrachloroethene	158	10	1,070	67.8		10	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/12/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	118	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-5-10'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	18	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-59-2
Tetrachloroethene	167	10	1,130	67.8		10	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/12/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/12/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	120	70-130	%REC					
<u>Tentatively Identified Compounds (TIC's)</u>								
Difluoroethane	< 100	100	ppbv		T4	10	10/12/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-5-15'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	19	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15						Analyst: YM	
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-59-2
Tetrachloroethene	174	10	1,180	67.8		10	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/13/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	110	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/13/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-5-20'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	20	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-59-2
Tetrachloroethene	150	10	1,010	67.8		10	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/13/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	99.5	70-130	%REC					
<u>Tentatively Identified Compounds (TIC's)</u>								
Difluoroethane	< 100	100	ppbv		T4	10	10/13/2017	



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Client:	ADR Environmental Group	Client Sample ID:	VW-7-20'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	21	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-59-2
Tetrachloroethene	123	10	831	67.8		10	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/13/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	103	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 100	100	ppbv		T4	10	10/13/2017
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Client:	ADR Environmental Group	Client Sample ID:	VW-6-5'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	22	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-59-2
Tetrachloroethene	41	10	281	67.8		10	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/13/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	118	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 100	100	ppbv		T4	10	10/13/2017
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Client:	ADR Environmental Group	Client Sample ID:	VW-6-10'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	23	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR		TO-15					Analyst: YM	
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-59-2
Tetrachloroethene	73	10	496	67.8		10	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/13/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	117	70-130	%REC					
<u>Tentatively Identified Compounds (TIC's)</u>								
Difluoroethane	< 100	100	ppbv		T4	10	10/13/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-6-15'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	24	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: YM					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-59-2
Tetrachloroethene	86	10	584	67.8		10	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/13/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	106	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/13/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-6-20'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	10/6/2017
Lab ID:	25	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15						Analyst: YM	
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-59-2
Tetrachloroethene	74	10	504	67.8		10	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/13/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/13/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	113	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/13/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	N/A
Lab ID:	Blank	Matrix:	Nitrogen

Method QC Data

Batch: MS011011 Analyst: YM

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 0.5	0.5	< 1.99	1.99		1	10/11/2017	75-35-4
cis-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/11/2017	156-59-2
Tetrachloroethene	< 1.0	1.0	< 6.78	6.78		1	10/11/2017	127-18-4
trans-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/11/2017	156-60-5
Trichloroethene	< 0.5	0.5	< 2.69	2.69		1	10/11/2017	79-01-6
Vinyl chloride	< 0.5	0.5	< 1.28	1.28		1	10/11/2017	75-01-4
Surr: 4-Bromofluorobenzene	95.8	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 10	10	ppbv	T4	1	10/11/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

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Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	N/A
Lab ID:	LCS/LCSD	Matrix:	Nitrogen

Method QC Data

Date Analyzed: 10/11/2017 Batch: MS011011 Analyst: YM

Analyses	LCS	LCS	LCSD	LCSD	T.V.	%RPD	Unit	Qualifier		
	Result	%REC	Result	%REC				LCS	LCSD	RPD
VOLATILE ORGANICS IN AIR	TO-15							70-130%		<25%
Vinyl Chloride	11.6	116	12.9	129	10.0	10.5	ppbv			
1,1-Dichloroethene	11.2	112	11.6	116	10.0	4.3	ppbv			
trans-1,2-Dichloroethene	10.0	100	10.7	107	10.0	7.5	ppbv			
cis-1,2-Dichloroethene	10.1	101	11.1	111	10.0	9.4	ppbv			
Trichloroethene	8.6	85.5	10.5	105	10.0	20.4	ppbv			
Tetrachloroethene	7.1	71.3	8.9	89.3	10.0	22.4	ppbv			
Surr: 4-Bromofluorobenzene	11.2	112	12.2	122			%REC			
		70-130%		70-130%						



Airtech Environmental Laboratories (AEL) - AZ 0740

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Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	N/A
Lab ID:	Blank	Matrix:	Nitrogen

Method QC Data

Batch: MS011012 Analyst: YM

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15						Analyst: JJ	
1,1-Dichloroethene	< 0.5	0.5	< 1.99	1.99		1	10/12/2017	75-35-4
cis-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/12/2017	156-59-2
Tetrachloroethene	< 1.0	1.0	< 6.78	6.78		1	10/12/2017	127-18-4
trans-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/12/2017	156-60-5
Trichloroethene	< 0.5	0.5	< 2.69	2.69		1	10/12/2017	79-01-6
Vinyl chloride	< 0.5	0.5	< 1.28	1.28		1	10/12/2017	75-01-4
Surr: 4-Bromofluorobenzene	99.2	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 10	10	ppbv	T4	1	10/12/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

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Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	N/A
Lab ID:	LCS/LCSD	Matrix:	Nitrogen

Method QC Data

Date Analyzed: 10/12/2017 Batch: MS011012 Analyst: YM

Analyses	LCS	LCS	LCSD	LCSD	T.V.	%RPD	Unit	Qualifier		
	Result	%REC	Result	%REC				LCS	LCSD	RPD
VOLATILE ORGANICS IN AIR	TO-15							70-130%		<25%
Vinyl Chloride	11.2	112	12.7	127	10.0	12.4	ppbv			
1,1-Dichloroethene	11.3	113	13.0	130	10.0	13.9	ppbv			
trans-1,2-Dichloroethene	10.6	106	11.2	112	10.0	5.2	ppbv			
cis-1,2-Dichloroethene	10.5	105	11.4	114	10.0	7.7	ppbv			
Trichloroethene	7.6	75.6	8.4	84.1	10.0	10.6	ppbv			
Tetrachloroethene	7.6	75.5	8.4	83.6	10.0	10.2	ppbv			
Surr: 4-Bromofluorobenzene	11.3	113	11.1	111			%REC			
		70-130%		70-130%						



Airtech Environmental Laboratories (AEL) - AZ 0740

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Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	N/A
Lab ID:	Blank	Matrix:	Nitrogen

Method QC Data

Batch: MS011013 Analyst: YM

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR		TO-15				Analyst: JJ		
1,1-Dichloroethene	< 0.5	0.5	< 1.99	1.99		1	10/13/2017	75-35-4
cis-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/13/2017	156-59-2
Tetrachloroethene	< 1.0	1.0	< 6.78	6.78		1	10/13/2017	127-18-4
trans-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/13/2017	156-60-5
Trichloroethene	< 0.5	0.5	< 2.69	2.69		1	10/13/2017	79-01-6
Vinyl chloride	< 0.5	0.5	< 1.28	1.28		1	10/13/2017	75-01-4
Surr: 4-Bromofluorobenzene	103	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 10	10	ppbv	T4	1	10/13/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

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Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	N/A
Lab ID:	LCS/LCSD	Matrix:	Nitrogen

Method QC Data

Date Analyzed: 10/13/2017 Batch: MS011013 Analyst: YM

Analyses	LCS	LCS	LCSD	LCSD	T.V.	%RPD	Unit	Qualifier		
	Result	%REC	Result	%REC				LCS	LCSD	RPD
VOLATILE ORGANICS IN AIR	TO-15							70-130%		<25%
Vinyl Chloride	11.8	118	12.6	126	10.0	6.7	ppbv			
1,1-Dichloroethene	10.1	101	12.7	127	10.0	22.0	ppbv			
trans-1,2-Dichloroethene	9.2	92.0	10.9	109	10.0	17.1	ppbv			
cis-1,2-Dichloroethene	9.9	99.1	11.0	110	10.0	10.2	ppbv			
Trichloroethene	8.1	80.6	8.0	80.4	10.0	0.2	ppbv			
Tetrachloroethene	9.4	94.4	8.0	80.3	10.0	16.1	ppbv			
Surr: 4-Bromofluorobenzene	12.0	120	11.9	119			%REC			
		70-130%		70-130%						



Client:	ADR Environmental Group	Client Sample ID:	NA
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J008	Collection:	NA
Lab ID:	Standards	Matrix:	Nitrogen

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4620 E.Elwood Street, Suite 13, Phoenix, AZ 85040 480-968-5888 (phone) 480-966-1888 (fax)

Customer: <u>ADR Environmental Group</u>			Page <u>1</u> of <u>3</u>		AEL Lab # <u>17J008</u>												
Address: <u>225 30th Street</u>			Sampler: <u>Gary Bender</u> Phone: <u>480 345-2448</u>														
City, State, Zip: <u>Sacramento, CA 95816</u>			Project Name: <u>Colonia Verde</u>		Project Number: <u>WWFC-01-16-327-AZ</u>												
Contact: <u>Kevin Gallagher</u>			Project location: <u>Tucson, AZ</u>		Dry Cleaner List												
Phone: <u>888 622-3734</u> Fax: <u>916 648-6688</u>			P.O. Number:														
E-Mail Address: <u>Kgallagher@adr.com</u>			E-Mail Results: <u>Y</u> <u>N</u>														
Sample Receipt			Turn Around Request		Analyses Requested												
Temperature _____ °C Custody Seals: Yes _____ No _____ Custody Seals Intact: Yes _____ No _____ Total # of Containers: _____			24 Hours _____ 48 Hours _____ 72 Hours _____ 5 working Day _____ <input checked="" type="checkbox"/> Standard 10 Working Days		SVE: soil vapor extraction GW: ground water A: ambient air WW: waste water I: indoor air S: soil vapor W: water												
Sample Information																	
AEL Lab #	Serial #		Canister (L) or bag	Grab (Min)	Client's Sample Identification	Sampled		Sample Type	Number of Containers	TO-15 full list	TO-15 TPH(GRO)	TO-15 Selet List	8260B AZ Vapor full list	8260B Vapor select list	8015 GRO	8260B Water	DFA tracer cmpd. as TIC
	Canister	Grab				Date	Time										
01	1869	113	6 bag	1 2 5	VW-4-5'	10/6/17	0930	S	1			X					X
02	1837	032	6 bag	1 2 5	VW-4-10'	10/6/17	0931	S	1			X					X
03	E2392	055	6 bag	1 2 5	VW-4-15'	10/6/17	0932	S	1			X					X
04	1832	076	6 bag	1 2 5	VW-4-20'	10/6/17	0933	S	1			X					X
05	E2095	080	6 bag	1 2 5	VW-3-5'	10/6/17	1020	S	1			X					X
06	1826	025	6 bag	1 2 5	VW-3-10'	10/6/17	1021	S	1			X					X
07	1881	128	6 bag	1 2 5	VW-3-15'	10/6/17	1022	S	1			X					X
08	1877	036	6 bag	1 2 5	VW-3-20'	10/6/17	1023	S	1			X					X
09	E2085	173	6 bag	1 2 5	VW-1-5'	10/6/17	1105	S	1			X					X
10	E2347	110	6 bag	1 2 5	VW-1-10'	10/6/17	1106	S	1			X					X
Instructions / Special Requirements:																	
Date:	Time:	Samples Relinquished By:										Received By:					
10/9/17	0830	<u>Gary Bender</u>										<u>[Signature]</u>					

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Customer: <u>ADR Environmental Group</u>		Page <u>2</u> of <u>3</u>		AEL Lab # <u>17J008</u>	
Address: <u>225 30th Street</u>		Sampler: <u>Gary Bender</u> Phone: <u>480 345-2448</u>			
		Project Name: <u>Colonia Verde</u>		Project Number: <u>WFC-01-16-327-AZ</u>	
City, State, Zip: <u>Sacramento, CA 95816</u>		Project location: <u>Tucson, AZ</u>			
Contact: <u>Kevin Gallagher</u>		P.O. Number:			
Phone: <u>888 622-3734</u>		Fax: <u>916 648-6688</u>		Fax Results: Y <input type="radio"/> N <input checked="" type="radio"/>	
E-Mail Address: <u>Kgallagher@adr.com</u>		E-Mail Results: <input checked="" type="radio"/> Y <input type="radio"/> N			

Sample Receipt		Turn Around Request		Sample Type		Analyses Requested									
Temperature _____ °C		____ 24 Hours ____ 48 Hours		SVE: soil vapor extraction GW: ground water		TO-15 full list	TO-15 TPH(GRO)	TO-15 Select List	8260B AZ Vapor full list	8260B Vapor select list	8015 GRO	8260B Water	DFA tracer cmpd. as TIC		
Custody Seals: Yes ____ No ____		____ 72 Hours		A: ambient air WW: waste water											
Custody Seals Intact: Yes ____ No ____		____ 5 working Day		I: indoor air											
Total # of Containers: _____		<input checked="" type="checkbox"/> Standard 10 Working Days		S: soil vapor											
				W: water											

Sample Information																	
AEL Lab #	Serial #		Canister (L) or bag	Grab (Min)	Client's Sample Identification	Sampled		Sample Type	Number of Containers	TO-15 full list	TO-15 TPH(GRO)	TO-15 Select List	8260B AZ Vapor full list	8260B Vapor select list	8015 GRO	8260B Water	DFA tracer cmpd. as TIC
	Canister	Grab				Date	Time										
11	E2362	178	6 bag	1 2	VW-1-15'	10/6/17	1107	S	1			X					X
12	E2366	058	6 bag	1 2	VW-1-20'	10/6/17	1108	S	1			X					X
13	E2402	108	6 bag	1 2	VW-2-5'	10/6/17	1225	S	1			X					X
14	E2099	218	6 bag	1 2	VW-2-10'	10/6/17	1226	S	1			X					X
15	E2099	205	6 bag	1 2	VW-2-15'	10/6/17	1227	S	1			X					X
16	E2099	186	6 bag	1 2	VW-2-20'	10/6/17	1228	S	1			X					X
17	E2361	070	6 bag	1 2	VW-3-5'	10/6/17	1310	S	1			X					X
18	1834	212	6 bag	1 2	VW-3-10'	10/6/17	1311	S	1			X					X
19	1801	103	6 bag	1 2	VW-3-15'	10/6/17	1312	S	1			X					X
20	1839	176	6 bag	1 2	VW-3-20'	10/6/17	1313	S	1			X					X

Instructions / Special Requirements: #14 & 16 changed by request from Gary B. 10-9-17

Date:	Time:	Samples Relinquished By:	Received By:
10/9/17	0830	<u>Gary A. Bender</u>	<u>[Signature]</u>

4620 E.Elwood Street, Suite 13, Phoenix, AZ 85040 480-968-5888 (phone) 480-966-1888 (fax)

Customer: <u>ADR Environmental Group</u>			Page <u>3</u> of <u>3</u>		AEL Lab #												
Address: <u>225 30th Street</u>			Sampler: <u>Gary Bender</u> Phone: <u>480 345-2448</u>		<u>17J008</u>												
			Project Name: <u>Colonia Verde</u> Project Number:														
City, State, Zip: <u>Sacramento, CA 95816</u>			Project location: <u>Tucson, AZ</u>		<u>Drycleaner List</u>												
Contact: <u>Kevin Gallagher</u>			P.O. Number:														
Phone: <u>888 622-3734</u> Fax: <u>916 648-6688</u>			Fax Results: Y <input checked="" type="radio"/> N <input type="radio"/>														
E-Mail Address: <u>Kgallagher1@adreg.com</u>			E-Mail Results: Y <input checked="" type="radio"/> N <input type="radio"/>														
Sample Receipt		Turn Around Request		Sample Type		Analyses Requested											
Temperature _____ °C		____ 24 Hours ____ 48 Hours		SVE: soil vapor extraction GW: ground water		<u>Drycleaner List</u>											
Custody Seals: Yes ____ No ____		____ 72 Hours		A: ambient air WW: waste water													
Custody Seals Intact: Yes ____ No ____		____ 5 working Day		I: indoor air													
Total # of Containers: _____		<input checked="" type="checkbox"/> Standard 10 Working Days		S: soil vapor													
				W: water													
Sample Information																	
AEL Lab #	Serial #		Canister (L) or bag	Grab (Min)	Client's Sample Identification	Sampled		Sample Type	Number of Containers	TO-15 full list	TO-15 TPH(GRO)	TO-15 Select List	8260B AZ Vapor full list	8260B Vapor select list	8015 GRO	8260B Water	DFA tracer compd. as TIC
	Canister	Grab				Date	Time										
<u>21</u>	<u>E2370</u>	<u>155</u>	<u>6 0 bag</u>	<u>1 2 5</u>	<u>VW-7-20'</u>	<u>10/6/17</u>	<u>1305</u>	<u>S</u>	<u>1</u>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
<u>22</u>	<u>1888</u>	<u>127</u>	<u>6 0 bag</u>	<u>1 2 5</u>	<u>VW-6-5'</u>	<u>10/6/17</u>	<u>1355</u>	<u>S</u>	<u>1</u>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
<u>23</u>	<u>E2391</u>	<u>139</u>	<u>6 0 bag</u>	<u>1 2 5</u>	<u>VW-6-10'</u>	<u>10/6/17</u>	<u>1356</u>	<u>S</u>	<u>1</u>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
<u>24</u>	<u>E2102</u>	<u>089</u>	<u>6 0 bag</u>	<u>1 2 5</u>	<u>VW-6-15'</u>	<u>10/6/17</u>	<u>1357</u>	<u>S</u>	<u>1</u>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
<u>25</u>	<u>1082</u>	<u>131</u>	<u>6 0 bag</u>	<u>1 2 5</u>	<u>VW-6-20'</u>	<u>10/6/17</u>	<u>1358</u>	<u>S</u>	<u>1</u>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
			<u>6 1 bag</u>	<u>1 2 5</u>													
			<u>6 1 bag</u>	<u>1 2 5</u>													
			<u>6 1 bag</u>	<u>1 2 5</u>													
			<u>6 1 bag</u>	<u>1 2 5</u>													
			<u>6 1 bag</u>	<u>1 2 5</u>													
Instructions / Special Requirements:																	
Date:		Time:		Samples Relinquished By:						Received By:							
<u>10/9/17</u>		<u>0830</u>		<u>Gary A. Bender</u>						<u>[Signature]</u>							



Airtech Environmental Laboratories (AEL)

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Date: October 25, 2017

Client:	Kevin Gallagher	Work Order #:	17J020
Company:	ADR Environmental Group	Project Name:	Colonia Verde
Address:	225 30th Street, Ste 202	Project Number:	WWFC -01-16-327-AZ
	Sacramento, CA 95816	Received Date:	10/20/2017

Dear Client:

Airtech Environmental Laboratories received twenty five (25) samples for analysis.

All analyses met laboratory QA/QC with any exceptions addressed in the Case Narrative.

If you have any questions or concerns regarding your samples analysis, please contact the laboratory at 480-968-5888

Sincerely,

Yu Min Shi
Technical Director
Airtech Environmental Labs

Arizona ADHS License No. AZ0740



Airtech Environmental Laboratories (AEL)

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Date: October 25, 2017

Client: Kevin Gallagher	Work Order #: 17J020
Company: ADR Environmental Group	Project Name: Colonia Verde
Address: 225 30th Street, Ste 202	Project Number: WWFC -01-16-327-AZ
Sacramento, CA 95816	Received Date: 10/20/17

Case Narrative

All samples and QC associated with your samples met the quality control objectives.
Data qualifiers in this report are in accordance with ADEQ Data Qualifiers.

T4: Tentatively identified compound. Concentration is estimated and based on the closest internal standard.



Airtech Environmental Laboratories (AEL)

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Date: October 25, 2017

Client:	Kevin Gallagher	Work Order #:	17J020
Company:	ADR Environmental Group	Project Name:	Colonia Verde
Address:	225 30th Street, Ste 202	Project Number:	WWFC -01-16-327-AZ
	Sacramento, CA 95816	Received Date:	10/20/2017


SAMPLE SUMMARY

LAB ID	CLIENT ID	METHOD	SAMPLE DATE	SAMPLE TIME
17J020-01	VW-3-25'	TO-15	10/19/2017	1015
17J020-02	VW-3-30'	TO-15	10/19/2017	1016
17J020-03	VW-3-35'	TO-15	10/19/2017	1017
17J020-04	VW-3-40'	TO-15	10/19/2017	1018
17J020-05	VW-4-25'	TO-15	10/19/2017	1105
17J020-06	VW-4-30'	TO-15	10/19/2017	1106
17J020-07	VW-4-35'	TO-15	10/19/2017	1107
17J020-08	VW-4-40'	TO-15	10/19/2017	1108
17J020-09	VW-1-25'	TO-15	10/19/2017	1135
17J020-10	VW-1-30'	TO-15	10/19/2017	1136
17J020-11	VW-1-35'	TO-15	10/19/2017	1137
17J020-12	VW-1-40'	TO-15	10/19/2017	1138
17J020-13	VW-2-25'	TO-15	10/19/2017	1235
17J020-14	VW-2-30'	TO-15	10/19/2017	1236
17J020-15	VW-2-35'	TO-15	10/19/2017	1237
17J020-16	VW-2-40'	TO-15	10/19/2017	1238
17J020-17	VW-5-25'	TO-15	10/19/2017	1400
17J020-18	VW-5-30'	TO-15	10/19/2017	1401
17J020-19	VW-5-35'	TO-15	10/19/2017	1402
17J020-20	VW-5-40'	TO-15	10/19/2017	1403
17J020-21	VW-7-40'	TO-15	10/19/2017	1410
17J020-22	VW-6-25'	TO-15	10/19/2017	1455
17J020-23	VW-6-30'	TO-15	10/19/2017	1456
17J020-24	VW-6-35'	TO-15	10/19/2017	1457
17J020-25	VW-6-40'	TO-15	10/19/2017	1458

**Airtech Environmental Laboratories (AEL) - AZ 0740**

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	Kevin Gallagher	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	N/A
Lab ID:	Kits QC	Matrix:	Air

		Canister				Grab Sampler	
		Type		Vacuum	Pressure	Type	
		1.0 liter		before sampled	after sampled	5 minute-fill 1.0L canister	
AEL#	Client ID	SN#	Clean Batch#	Hg inch	psia	SN#	Clean Batch#
17J020-01	VW-3-25'	E2403	1710-05	29.0	11.16	052	1709-05
17J020-02	VW-3-30'	E2088	1710-05	29.0	9.23	156	1709-05
17J020-03	VW-3-35'	1849	1710-05	29.0	10.15	157	1709-05
17J020-04	VW-3-40'	1857	1710-05	29.0	6.27	206	1709-05
17J020-05	VW-4-25'	E2387	1710-06	29.0	12.40	003	1709-08
17J020-06	VW-4-30'	E2096	1710-06	29.0	11.04	213	1709-05
17J020-07	VW-4-35'	0606	1710-06	29.0	11.09	005	1709-08
17J020-08	VW-4-40'	1813	1710-03	29.0	11.03	120	1710-02
17J020-09	VW-1-25'	E2363	1710-04	29.0	11.96	006	1710-02
17J020-10	VW-1-30'	1879	1710-03	29.0	8.95	215	1710-02
17J020-11	VW-1-35'	0206	1710-04	29.0	12.46	018	1709-06
17J020-12	VW-1-40'	1861	1710-04	29.0	10.63	096	1710-02
17J020-13	VW-2-25'	E2373	1710-04	29.0	11.50	172	1710-02
17J020-14	VW-2-30'	1829	1710-04	29.0	9.99	050	1710-02
17J020-15	VW-2-35'	1789	1710-04	29.0	10.80	179	1710-02
17J020-16	VW-2-40'	1842	1710-04	29.0	12.28	216	1710-02
17J020-17	VW-5-25'	1856	1710-05	29.0	10.88	039	1709-08
17J020-18	VW-5-30'	E2405	1710-05	29.0	10.55	060	1710-02
17J020-19	VW-5-35'	E2094	1710-05	29.0	7.65	029	1709-08
17J020-20	VW-5-40'	1870	1710-05	29.0	11.67	181	1710-02
17J020-21	VW-7-40'	E2091	1710-05	29.0	11.68	145	1709-08
17J020-22	VW-6-25'	1802	1710-05	29.0	10.80	208	1709-08
17J020-23	VW-6-30'	E2288	1710-05	29.0	4.77	168	1709-08
17J020-24	VW-6-35'	E2090	1710-05	29.0	9.85	174	1709-05
17J020-25	VW-6-40'	E2100	1710-04	29.0	10.62	051	1708-07



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-3-25'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	01	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/23/2017	156-59-2
Tetrachloroethene	141	5.0	955	33.9		10	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/23/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/23/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	90.0	70-130	%REC					
<u>Tentatively Identified Compounds (TIC's)</u>								
Difluoroethane	< 100	100	ppbv		T4	10	10/23/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-3-30'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	02	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/23/2017	156-59-2
Tetrachloroethene	161	10	1,092	67.8		20	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/23/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/23/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	89.1	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/23/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-3-35'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	03	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/20/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-59-2
Tetrachloroethene	208	10	1,413	67.8		20	10/20/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/20/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/20/2017	75-01-4
Surr: 4-Bromofluorobenzene	86.6	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/20/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-3-40'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	04	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/23/2017	156-59-2
Tetrachloroethene	194	5.0	1,313	33.9		10	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/23/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/23/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	89.9	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/23/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-4-25'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	05	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/20/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-59-2
Tetrachloroethene	1,280	50	8,678	339		100	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/20/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/20/2017	75-01-4
Surr: 4-Bromofluorobenzene	87.0	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/20/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-4-30'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	06	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/20/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-59-2
Tetrachloroethene	1,170	50	7,933	339		100	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/20/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/20/2017	75-01-4
Surr: 4-Bromofluorobenzene	86.8	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/20/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-4-35'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	07	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/20/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-59-2
Tetrachloroethene	1,540	50	10,440	339		100	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/20/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/20/2017	75-01-4
Surr: 4-Bromofluorobenzene	87.8	70-130	%REC					
<u>Tentatively Identified Compounds (TIC's)</u>								
Difluoroethane	< 200	200	ppbv		T4	20	10/20/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-4-40'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	08	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 50	50	< 199	199		100	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 50	50	< 198	198		100	10/23/2017	156-59-2
Tetrachloroethene	1,010	50	6,848	339		100	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 50	50	< 198	198		100	10/23/2017	156-60-5
Trichloroethene	< 50	50	< 269	269		100	10/23/2017	79-01-6
Vinyl chloride	< 50	50	< 128	128		100	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	84.1	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 1,000	1,000	ppbv		T4	100	10/23/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-1-25'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	09	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15						Analyst: JJ	
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/20/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-59-2
Tetrachloroethene	737	50	4,997	339		100	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/20/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/20/2017	75-01-4
Surr: 4-Bromofluorobenzene	89.1	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv	T4	20	10/20/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-1-30'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	10	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/20/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-59-2
Tetrachloroethene	525	50	3,560	339		100	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/20/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/20/2017	75-01-4
Surr: 4-Bromofluorobenzene	91.0	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/20/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-1-35'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	11	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15						Analyst: JJ	
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/20/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-59-2
Tetrachloroethene	632	50	4,285	339		100	10/24/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/20/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/20/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/20/2017	75-01-4
Surr: 4-Bromofluorobenzene	89.2	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv	T4	20	10/20/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-1-40'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	12	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/21/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-59-2
Tetrachloroethene	955	50	6,475	339		100	10/24/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/21/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/21/2017	75-01-4
Surr: 4-Bromofluorobenzene	87.8	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/21/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-2-25'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	13	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15						Analyst: JJ	
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/21/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-59-2
Tetrachloroethene	529	50	3,587	339		100	10/24/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/21/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/21/2017	75-01-4
Surr: 4-Bromofluorobenzene	89.0	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/21/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-2-30'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	14	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/21/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-59-2
Tetrachloroethene	616	10	4,174	67.8		20	10/21/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/21/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/21/2017	75-01-4
Surr: 4-Bromofluorobenzene	88.0	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv	T4	20	10/21/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-2-35'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	15	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/21/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-59-2
Tetrachloroethene	762	50	5,166	339		100	10/24/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/21/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/21/2017	75-01-4
Surr: 4-Bromofluorobenzene	87.6	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv	T4	20	10/21/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-2-40'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	16	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/21/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-59-2
Tetrachloroethene	953	50	6,461	339		100	10/24/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/21/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/21/2017	75-01-4
Surr: 4-Bromofluorobenzene	89.6	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv	T4	20	10/21/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-5-25'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	17	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/21/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-59-2
Tetrachloroethene	459	10	3,112	67.8		20	10/21/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/21/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/21/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/21/2017	75-01-4
Surr: 4-Bromofluorobenzene	89.4	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/21/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-5-30'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	18	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/24/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/24/2017	156-59-2
Tetrachloroethene	500	10	3,391	67.8		20	10/24/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/24/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/24/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/24/2017	75-01-4
Surr: 4-Bromofluorobenzene	88.1	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/24/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-5-35'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	19	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/23/2017	156-59-2
Tetrachloroethene	354	10	2,397	67.8		20	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/23/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/23/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	87.5	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/23/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-5-40'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	20	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/23/2017	156-59-2
Tetrachloroethene	386	10	2,614	67.8		20	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/23/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/23/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	87.4	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/23/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-7-40'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	21	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 10	10	< 39.7	39.7		20	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/23/2017	156-59-2
Tetrachloroethene	406	10	2,750	67.8		20	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 10	10	< 39.6	39.6		20	10/23/2017	156-60-5
Trichloroethene	< 10	10	< 53.7	53.7		20	10/23/2017	79-01-6
Vinyl chloride	< 10	10	< 25.6	25.6		20	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	90.2	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 200	200	ppbv		T4	20	10/23/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-6-25'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	22	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 2.5	2.5	< 9.93	9.93		5	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 2.5	2.5	< 9.90	9.90		5	10/23/2017	156-59-2
Tetrachloroethene	143	2.5	972	17.0		5	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 2.5	2.5	< 9.90	9.90		5	10/23/2017	156-60-5
Trichloroethene	< 2.5	2.5	< 13.4	13.4		5	10/23/2017	79-01-6
Vinyl chloride	< 2.5	2.5	< 6.40	6.40		5	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	89.3	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 50	50	ppbv		T4	5	10/23/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-6-30'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	23	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR		TO-15		Analyst: JJ				
1,1-Dichloroethene	< 2.5	2.5	< 9.93	9.93		5	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 2.5	2.5	< 9.90	9.90		5	10/23/2017	156-59-2
Tetrachloroethene	173	2.5	1,173	17.0		5	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 2.5	2.5	< 9.90	9.90		5	10/23/2017	156-60-5
Trichloroethene	< 2.5	2.5	< 13.4	13.4		5	10/23/2017	79-01-6
Vinyl chloride	< 2.5	2.5	< 6.40	6.40		5	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	92.2	70-130	%REC					
<u>Tentatively Identified Compounds (TIC's)</u>								
Difluoroethane	< 50	50	ppbv		T4	5	10/23/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-6-35'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	24	Matrix:	Soil vapor

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/23/2017	156-59-2
Tetrachloroethene	161	5.0	1,091	33.9		10	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/23/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/23/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	88.8	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 100	100	ppbv		T4	10	10/23/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	VW-6-40'
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	10/19/2017
Lab ID:	25	Matrix:	Soil vapor

Analyses	ppbv		ug/M³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR	TO-15		Analyst: JJ					
1,1-Dichloroethene	< 5.0	5.0	< 19.9	19.9		10	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/23/2017	156-59-2
Tetrachloroethene	215	5.0	1,460	33.9		10	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 5.0	5.0	< 19.8	19.8		10	10/23/2017	156-60-5
Trichloroethene	< 5.0	5.0	< 26.9	26.9		10	10/23/2017	79-01-6
Vinyl chloride	< 5.0	5.0	< 12.8	12.8		10	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	90.2	70-130	%REC					
Tentatively Identified Compounds (TIC's)								
Difluoroethane	< 100	100	ppbv		T4	10	10/23/2017	



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	N/A
Lab ID:	Blank	Matrix:	Nitrogen

Method QC Data

Batch: MS011020 Analyst: JJ

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR		TO-15		Analyst: JJ				
1,1-Dichloroethene	< 0.5	0.5	< 1.99	1.99		1	10/20/2017	75-35-4
cis-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/20/2017	156-59-2
Tetrachloroethene	< 0.5	0.5	< 3.39	3.39		1	10/20/2017	127-18-4
trans-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/20/2017	156-60-5
Trichloroethene	< 0.5	0.5	< 2.69	2.69		1	10/20/2017	79-01-6
Vinyl chloride	< 0.5	0.5	< 1.28	1.28		1	10/20/2017	75-01-4
Surr: 4-Bromofluorobenzene	83.4	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 10	10	ppbv	T4	1	10/20/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	N/A
Lab ID:	LCS/LCSD	Matrix:	Nitrogen

Method QC Data

Date Analyzed: 10/20/2017 Batch: MS011020 Analyst: JJ

Analyses	LCS	LCS	LCSD	LCSD	T.V.	%RPD	Unit	Qualifier		
	Result	%REC	Result	%REC				LCS	LCSD	RPD
VOLATILE ORGANICS IN AIR	TO-15							70-130%		<25%
Vinyl Chloride	9.7	96.5	10.2	102	10.0	5.7	ppbv			
1,1-Dichloroethene	9.3	93.2	10.3	103	10.0	10.3	ppbv			
trans-1,2-Dichloroethene	7.5	74.5	8.6	85.5	10.0	13.8	ppbv			
cis-1,2-Dichloroethene	8.4	84.0	9.8	98.0	10.0	15.4	ppbv			
Trichloroethene	8.4	84.0	8.9	89.0	10.0	5.8	ppbv			
Tetrachloroethene	11.0	110	10.9	109	10.0	1.4	ppbv			
Surr: 4-Bromofluorobenzene	10.4	104	10.6	106			%REC			
		70-130%		70-130%						



Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	N/A
Lab ID:	Blank	Matrix:	Nitrogen

Method QC Data

Batch: MS011023 Analyst: JJ

Analyses	ppbv		ug/M ³		Qual	DF	Date	CAS#
	Result	Limit	Result	Limit			Analyzed	
VOLATILE ORGANICS IN AIR		TO-15		Analyst: JJ				
1,1-Dichloroethene	< 0.5	0.5	< 1.99	1.99		1	10/23/2017	75-35-4
cis-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/23/2017	156-59-2
Tetrachloroethene	< 0.5	0.5	< 3.39	3.39		1	10/23/2017	127-18-4
trans-1,2-Dichloroethene	< 0.5	0.5	< 1.98	1.98		1	10/23/2017	156-60-5
Trichloroethene	< 0.5	0.5	< 2.69	2.69		1	10/23/2017	79-01-6
Vinyl chloride	< 0.5	0.5	< 1.28	1.28		1	10/23/2017	75-01-4
Surr: 4-Bromofluorobenzene	84.0	70-130	%REC					

Tentatively Identified Compounds (TIC's)

Difluoroethane	< 10	10	ppbv	T4	1	10/23/2017
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Airtech Environmental Laboratories (AEL) - AZ 0740

4620 E.Elwood St., Suite 13, Phoenix, AZ 85040 480-968-5888 Fax 480-966-1888

Client:	ADR Environmental Group	Client Sample ID:	N/A
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	N/A
Lab ID:	LCS/LCSD	Matrix:	Nitrogen

Method QC Data

Date Analyzed: 10/23/2017 Batch: MS011023 Analyst: JJ

Analyses	LCS	LCS	LCSD	LCSD	T.V.	%RPD	Unit	Qualifier		
	Result	%REC	Result	%REC				LCS	LCSD	RPD
VOLATILE ORGANICS IN AIR	TO-15							70-130%		<25%
Vinyl Chloride	10.7	107	11.2	112	10.0	4.9	ppbv			
1,1-Dichloroethene	9.6	95.6	9.0	89.7	10.0	6.4	ppbv			
trans-1,2-Dichloroethene	8.9	89.2	8.0	79.7	10.0	11.2	ppbv			
cis-1,2-Dichloroethene	8.6	86.0	8.0	80.4	10.0	6.7	ppbv			
Trichloroethene	8.5	85.2	7.5	75.2	10.0	12.5	ppbv			
Tetrachloroethene	10.9	109	9.7	96.5	10.0	12.5	ppbv			
Surr: 4-Bromofluorobenzene	11.0	110	10.7	107			%REC			
		70-130%		70-130%						



Client:	ADR Environmental Group	Client Sample ID:	NA
Project:	Colonia Verde	Project Number:	WWFC -01-16-327-AZ
Lab Order:	17J020	Collection:	NA
Lab ID:	Standards	Matrix:	Nitrogen

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4620 E.Elwood Street, Suite 13, Phoenix, AZ 85040 480-968-5888 (phone) 480-966-1888 (fax)

Customer : <u>ADR Environmental Group</u>			Page <u>1</u> of <u>3</u>		AEL Lab # 17J020												
Address: <u>225 30th street</u>			Sampler: <u>Gary Bender</u> Phone: <u>480-345-2448</u>														
City, State, Zip: <u>Sacramento, CA 95816</u>			Project Name: <u>Colonia Verde</u>		Project Number: <u>WWFC-01-16-327-AZ</u>												
Contact: <u>Kevin Gallagher</u>			Project location: <u>Tucson, AZ</u>		List												
Phone: <u>888 662-3734</u> Fax: <u>916 648-6688</u>			P.O. Number:														
E-Mail Address: <u>Kgallagher@adreg.com</u>			Fax Results: Y <input checked="" type="radio"/> N <input type="radio"/>														
			E-Mail Results: <input checked="" type="radio"/> Y <input type="radio"/> N														
Sample Receipt			Turn Around Request		Analyses Requested												
Temperature _____ °C			_____ 24 Hours _____ 48 Hours		Dry Cleaner												
Custody Seals: Yes _____ No _____			_____ 72 Hours														
Custody Seals Intact: Yes _____ No _____			<input checked="" type="checkbox"/> 5 working Day														
Total # of Containers: _____			_____ Standard 10 Working Days														
			SVE: soil vapor extraction		GW: ground water												
			A: ambient air		WW: waste water												
			I: indoor air														
			<input checked="" type="radio"/> S: soil vapor														
			W: water														
Sample Information										TO-15 full list	TO-15 TPH(GRO)	TO-15 Selet List	8260B AZ Vapor full list	8260B Vapor select list	8015 GRO	8260B Water	DFA tracer cmpd. as TIC
AEL Lab #	Serial # Canister Grab	Canister (L) or bag	Grab (Min)	Client's Sample Identification	Sampled Date Time		Sample Type	Number of Containers									
01	E2403 052	60 bag	1 2 5	VW-3-25'	10/19/17	1015	S	1			X						X
02	E2088 156	60 bag	1 2 5	VW-3-30'		1016	S	1			X						X
03	1849 157	60 bag	1 2 5	VW-3-35'		1017	S	1			X						X
04	1857 206	60 bag	1 2 5	VW-3-40'		1018	S	1			X						X
05	E2387 003	60 bag	1 2 5	VW-4-25'		1105	S	1			X						X
06	E2096 213	60 bag	1 2 5	VW-4-30'		1106	S	1			X						X
07	0606 005	60 bag	1 2 5	VW-4-35'		1107	S	1			X						X
08	1813 120	60 bag	1 2 5	VW-4-40'		1108	S	1			X						X
09	E2363 006	60 bag	1 2 5	VW-1-25'		1135	S	1			X						X
10	1879 215	60 bag	1 2 5	VW-1-30'		1136	S	1			X						X
Instructions / Special Requirements:																	
Date:		Time:		Samples Relinquished By:						Received By:							
10/20/17		1000		Gary A. Bender						[Signature]							

4620 E.Elwood Street, Suite 13, Phoenix, AZ 85040 480-968-5888 (phone) 480-966-1888 (fax)

Customer: <u>ADR Environmental Group</u>		Page <u>2</u> of <u>3</u>		AEL Lab # <u>17J020</u>													
Address: <u>225 30th street</u>		Sampler: <u>Gary Bender</u> Phone: <u>480-345-2448</u>															
City, State, Zip: <u>Sacramento, CA 95816</u>		Project Name: <u>Colonia Verde</u>		Project Number: <u>WWFC-01-16-327-AZ</u>													
Contact: <u>Kevin Gallagher</u>		Project location: <u>Tucson, AZ</u>		<div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">Dry Cleaner List</div>													
Phone: <u>888 662-3734</u> Fax: <u>916 648-6688</u>		P.O. Number:															
E-Mail Address: <u>Kgallagher@adreg.com</u>		Fax Results: <u>Y</u> <u>N</u> E-Mail Results: <u>Y</u> <u>N</u>															
Sample Receipt		Turn Around Request		Analyses Requested													
Temperature _____ °C Custody Seals: Yes _____ No _____ Custody Seals Intact: Yes _____ No _____ Total # of Containers: _____		_____ 24 Hours _____ 48 Hours _____ 72 Hours <input checked="" type="checkbox"/> 5 working Day _____ Standard 10 Working Days		SVE: soil vapor extraction GW: ground water A: ambient air WW: waste water I: indoor air <input checked="" type="checkbox"/> S: soil vapor W: water													
Sample Information																	
AEL Lab #	Serial #		Canister (L) or bag	Grab (Min)	Client's Sample Identification	Sampled		Sample Type	Number of Containers	TO-15 full list	TO-15 TPH(GRO)	TO-15 Select List	8260B AZ Vapor full list	8260B Vapor select list	8015 GRO	8260B Water	DFA tracer compd. as TIC
	Canister	Grab				Date	Time										
<u>11</u>	<u>0206</u>	<u>018</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-1-35'</u>	<u>10/9/17</u>	<u>1137</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>12</u>	<u>1861</u>	<u>096</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-1-40'</u>		<u>1138</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>13</u>	<u>E2373</u>	<u>172</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-2-25'</u>		<u>1235</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>14</u>	<u>1829</u>	<u>050</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-2-30'</u>		<u>1236</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>15</u>	<u>1789</u>	<u>179</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-2-35'</u>		<u>1237</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>16</u>	<u>1842</u>	<u>216</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-2-40'</u>		<u>1238</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>17</u>	<u>1856</u>	<u>039</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-5-25'</u>		<u>1400</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>18</u>	<u>E2405</u>	<u>060</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-5-30'</u>		<u>1401</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>19</u>	<u>E2094</u>	<u>029</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-5-35'</u>		<u>1402</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>20</u>	<u>1870</u>	<u>181</u>	<u>6</u> bag	<u>1 2</u>	<u>VW-5-40'</u>		<u>1403</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
Instructions / Special Requirements:																	
Date: <u>10/20/17</u>		Time: <u>1000</u>		Samples Relinquished By: <u>Gary A. Bender</u>						Received By: <u>[Signature]</u>							

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Customer: <u>ADR Environmental Group</u>		Page <u>3</u> of <u>3</u>		AEL Lab # <u>17 J020</u>													
Address: <u>225 30th street</u>		Sampler: <u>Gary Bender</u> Phone: <u>480-345-2448</u>															
		Project Name: <u>Colonia Verde</u>		Project Number: <u>NWFC-01-16-327-AZ</u>													
City, State, Zip: <u>Sacramento, CA 95816</u>		Project location: <u>Tucson, AZ</u>															
Contact: <u>Kevin Gallagher</u>		P.O. Number:															
Phone: <u>888 662-3734</u>	Fax: <u>916 641-6688</u>	Fax Results: Y <input type="radio"/> N <input checked="" type="radio"/>															
E-Mail Address: <u>Kgallagher@adreg.com</u>		E-Mail Results: <input checked="" type="radio"/> Y <input type="radio"/> N															
Sample Receipt		Turn Around Request		Sample Type													
Temperature _____ °C		____ 24 Hours ____ 48 Hours		SVE: soil vapor extraction GW: ground water													
Custody Seals: Yes ____ No ____		____ 72 Hours		A: ambient air WW: waste water													
Custody Seals Intact: Yes ____ No ____		<input checked="" type="checkbox"/> 5 working Day		I: indoor air													
Total # of Containers: _____		____ Standard 10 Working Days		<input checked="" type="checkbox"/> S: soil vapor													
				W: water													
Sample Information																	
AEL Lab #	Serial #		Canister (L) or bag	Grab (Min)	Client's Sample Identification	Sampled		Sample Type	Number of Containers	TO-15 full list	TO-15 TPH(GRO)	TO-15 Select List Dry Cleaner List	8260B AZ Vapor full list	8260B Vapor select list	8015 GRO	8260B Water	DFA tracer cmpd. as TIC
	Canister	Grab				Date	Time										
<u>21</u>	<u>E2091</u>	<u>145</u>	<u>6 1 bag</u>	<u>1 2 5</u>	<u>VW-7-40'</u>	<u>10/19/17</u>	<u>1410</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>22</u>	<u>1802</u>	<u>208</u>	<u>6 1 bag</u>	<u>1 2 5</u>	<u>VW-6-25'</u>		<u>1455</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>23</u>	<u>E2288</u>	<u>168</u>	<u>6 1 bag</u>	<u>1 2 5</u>	<u>VW-6-30'</u>		<u>1456</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>24</u>	<u>E2090</u>	<u>174</u>	<u>6 1 bag</u>	<u>1 2 5</u>	<u>VW-6-35'</u>		<u>1457</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
<u>25</u>	<u>E2100</u>	<u>051</u>	<u>6 1 bag</u>	<u>1 2 5</u>	<u>VW-6-40'</u>		<u>1458</u>	<u>S</u>	<u>1</u>			<u>X</u>					<u>X</u>
			6 1 bag	1 2 5													
			6 1 bag	1 2 5													
			6 1 bag	1 2 5													
			6 1 bag	1 2 5													
			6 1 bag	1 2 5													
			6 1 bag	1 2 5													
Instructions / Special Requirements:																	
Date:	Time:	Samples Relinquished By:										Received By:					
<u>10/20/17</u>	<u>1000</u>	<u>Gary A. Bender</u>										<u>[Signature]</u>					

APPENDIX D

**BUILDING SURVEYS AND CHEMICAL
INVENTORY**

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Gary A. Bender, R.G. Date/Time Prepared: 10/25/17
Affiliation: Bender Environmental Consulting, Inc. Phone Number: 480 345-2448

Occupant Information

Occupant Name: Beltone Hearing Aids Interviewed: ☒ Yes ☐ No
Mailing Address: 7189 E. Tanque Verde Road, Ste. C118
City: Tucson State: AZ Zip Code: 85715
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☐)

Occupant Name: Westwood Financial LLC (Property owner) Interviewed: ☐ Yes ☒ No
Mailing Address: 11440 San Vicente, Ste. 200
City: Los Angeles State: CA Zip Code: 90049
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☒ Strip Mall ☐ Split Level ☐ Church ☐ School

Building Characteristics

Approximate Building Age (years): 30+ years Number of Stories: one
Approximate Building Area (square feet): 958 (Suite C118 only) Number of Elevators: None

Foundation Type (Check appropriate boxes)

☒ Slab-on-Grade ☐ Crawl Space ☐ Basement

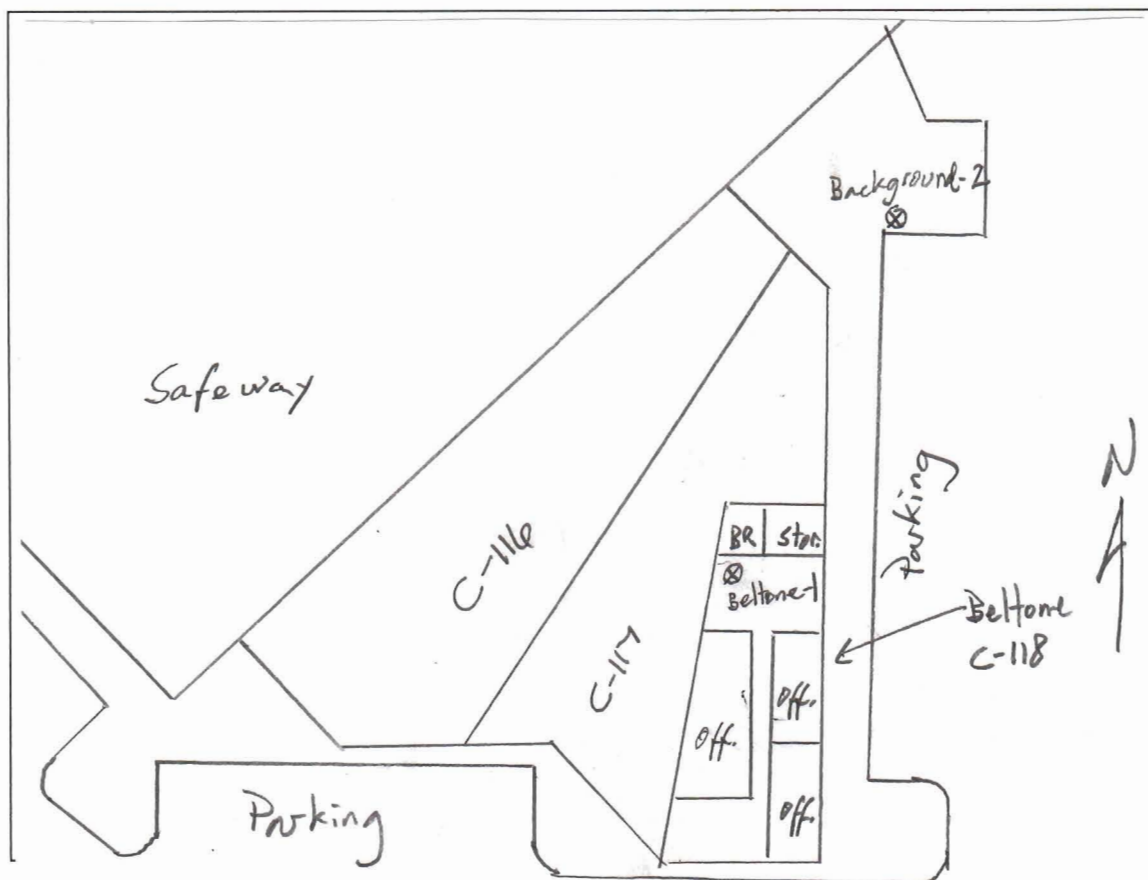
Basement Characteristics (Check appropriate boxes) Tile floor in break room, good condition

☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there smoking in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there new carpet or furniture?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Have clothes or drapes been recently dry cleaned?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Has painting or staining been done with the last six months?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Has the building been recently remodeled?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Has the building ever had a fire?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there a hobby or craft area in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Is gun cleaner stored in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there a fuel oil tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there a septic tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Has the building been fumigated or sprayed for pests recently?	<input type="checkbox"/> Yes <input type="checkbox"/> No Describe: <u>unknown</u>
Do any building occupants use solvents at work?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.



☐ Natural Gas ☐ Fuel Oil ☐ Propane ☒ Electricity ☐ Wood ☐ Kerosene

Describe the general weather conditions during the indoor air sampling event.
Sunny, 95 degrees

Provide any other information that may be of importance in understanding the indoor air quality of this building.

The Beltone Hearing Aids store sells and services hearing aids and has no chemicals other than cleaning supplies where the 8-hr. sample Beltone-1 was collected. These chemicals do not include any VOCs. The offices were not open during the sampling event (closed on Fridays), but the AC was turned on at the beginning of sampling and ran all day. By the end of the day, the temp. went from low 80's to mid-70's inside the offices.

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Beltone Hearing Aids - Ste. C118 only

Address 7189 E. Tanque Verde Road

City Tucson, AZ

Field Investigator Gary Bender, R.G. Date Oct. 6, 2017

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0.0	Ambient air in break room	No VOCs stored
0.0	Ambient air in front lobby area	No VOCs stored

Comments:

Suite C118 is a small part of the building, which also contains a drug testing lab, and a flower shop.

BUILDING SURVEY FORM

Preparer's Name: Gary A. Bender, R.G. Date/Time Prepared: 10/25/17
Affiliation: Bender Environmental Consulting, Inc. Phone Number: 480 345-2448

Occupant Information

Occupant Name: The Vape Zone Interviewed: ☒ Yes ☐ No
Mailing Address: 7113 E. Tanque Verde Road
City: Tucson State: AZ Zip Code: 85715
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☐)

Occupant Name: Westwood Financial LLC (Property owner) Interviewed: ☐ Yes ☒ No
Mailing Address: 11440 San Vicente, Ste. 200
City: Los Angeles State: CA Zip Code: 90049
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☒ Strip Mall ☐ Split Level ☐ Church ☐ School

Building Characteristics

Approximate Building Age (years): 20-25 years Number of Stories: one
Approximate Building Area (square feet): 850 (Suite 102 only) Number of Elevators: None

Foundation Type (Check appropriate boxes)

☒ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes) Concrete floor in storage room, good condition

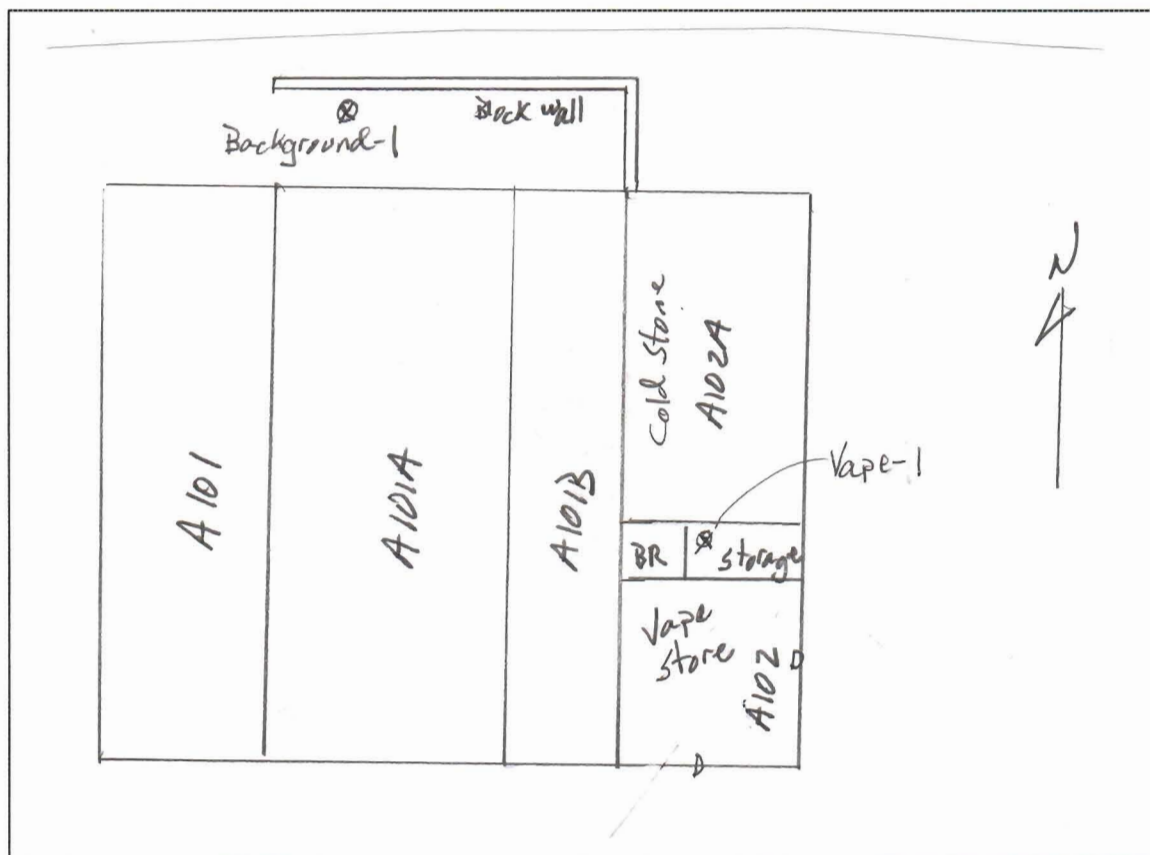
☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there smoking in the building?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Vaping only
Is there new carpet or furniture?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe: <u>possibly</u>
Have clothes or drapes been recently dry cleaned?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has painting or staining been done with the last six months?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Has the building been recently remodeled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe: <u>< 1 yr.</u>
Has the building ever had a fire?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a hobby or craft area in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____
Is gun cleaner stored in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a fuel oil tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there a septic tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Has the building been fumigated or sprayed for pests recently?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe: <u>unknown</u>
Do any building occupants use solvents at work?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Describe: _____

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.



Primary Type of Energy Used (Check appropriate boxes)

☐ Natural Gas ☐ Fuel Oil ☐ Propane ☒ Electricity ☐ Wood ☐ Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.

Sunny, 95 degrees

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

The Vape Store sells vaping supplies, and had some chemical storage in the back storage room where the 8-hr. sample Vape-1 was collected. These chemicals were not VOCs, and typically consisted of vaping-related chemicals (glycols, etc.) The store was open during the entire sampling event, and the AC was turned on at the beginning of sampling and ran all day. Temp. went from low 80's to mid-70's inside the store after the AC was turned on.

BUILDING SCREENING FORM

Occupant of Building The Vape Zone - Ste. 102 only

Address 7113 E. Tanque Verde Road

City Tucson, AZ

Field Investigator Gary Bender, R.G. Date Oct. 6, 2017

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0.0	Ambient air in storage room	No VOCs stored
0.0	Ambient air in store customer area	No VOCs stored

Comments:

Suite 102 is a small part of the building, which also contains Stone Cold Creamery, a dentist, Sprint PCS, and Panda Express.

BUILDING SURVEY FORM

Preparer's Name: Gary A. Bender, R.G. Date/Time Prepared: 10/25/17
Affiliation: Bender Environmental Consulting, Inc. Phone Number: 480 345-2448

Occupant Information

Occupant Name: Walgreens Drug Store Interviewed: ☒ Yes ☐ No
Mailing Address: 7115 E. Tanque Verde Road, Ste. B103
City: Tucson State: AZ Zip Code: 85715
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☐)

Occupant Name: Westwood Financial LLC (Property owner) Interviewed: ☐ Yes ☒ No
Mailing Address: 11440 San Vicente, Ste. 200
City: Los Angeles State: CA Zip Code: 90049
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☒ Strip Mall ☐ Split Level ☐ Church ☐ School

Building Characteristics

Approximate Building Age (years): 20-25 years Number of Stories: one
Approximate Building Area (square feet): 14,065 Number of Elevators: None
(Suite B103 only)

Foundation Type (Check appropriate boxes)

☒ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes) Tile floor in store, concrete in managers office, good condition

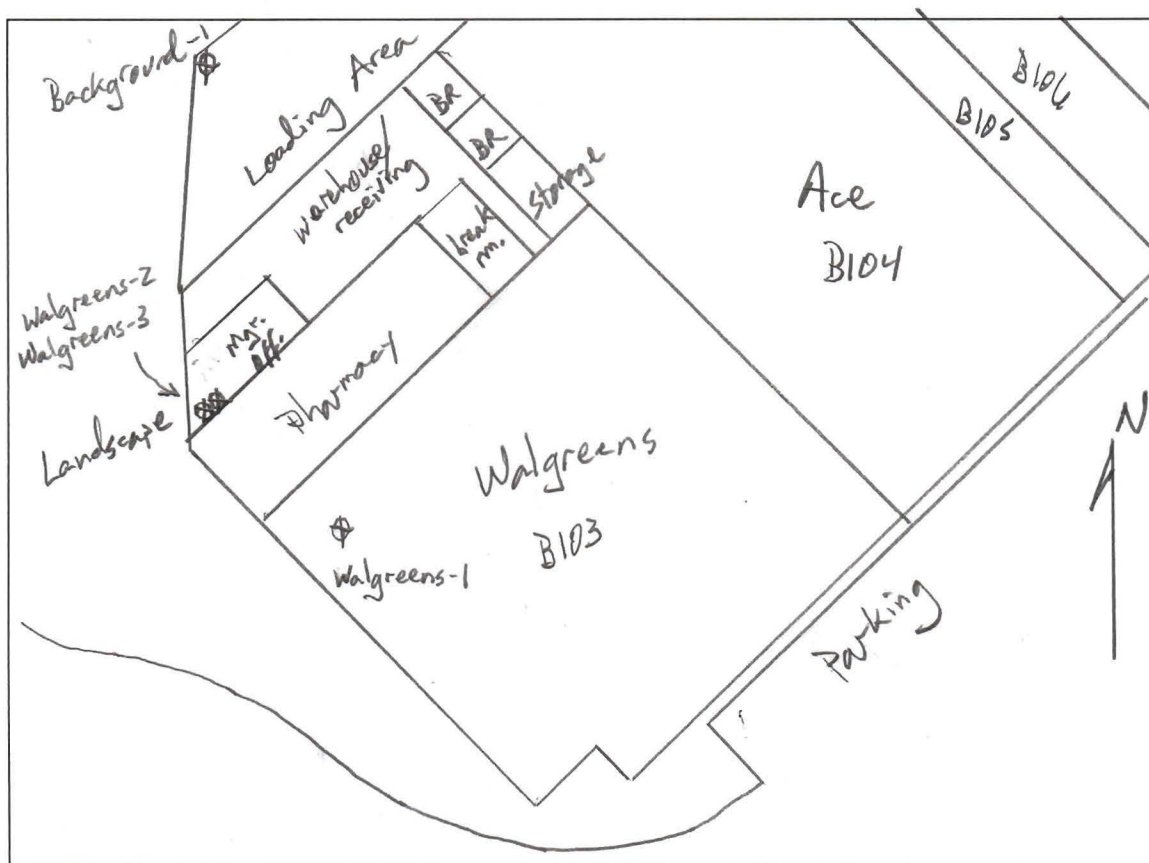
☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there smoking in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there new carpet or furniture?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Have clothes or drapes been recently dry cleaned?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Has painting or staining been done with the last six months?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Has the building been recently remodeled?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Has the building ever had a fire?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there a hobby or craft area in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____
Is gun cleaner stored in the building?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there a fuel oil tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there a septic tank on the property?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Has the building been fumigated or sprayed for pests recently?	<input type="checkbox"/> Yes <input type="checkbox"/> No Describe: <u>unknown</u>
Do any building occupants use solvents at work?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe: _____

Sampling Locations

Draw the general floor plan of the building and denote locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.



Primary Type of Energy Used (Check appropriate boxes)

☐ Natural Gas ☐ Fuel Oil ☐ Propane ☒ Electricity ☐ Wood ☐ Kerosene

Meteorological Conditions

Describe the general weather conditions during the indoor air sampling event.
Sunny, 95 degrees

General Comments

Provide any other information that may be of importance in understanding the indoor air quality of this building.

The Walgreen store sells a wide variety of products which might include small quantities of VOCs including medical supplies, cosmetics, and automotive supplies. A sample and a duplicate were collected in the manager's office, which did not have any specific chemicals. However, the sample in the product sales area was close to the automotive supply aisle where some products containing VOCs are shelved. The store was open during the sampling event and the AC was turned on the entire time. The temp. was probably in the mid-70's inside the store.

BUILDING SCREENING FORM

Occupant of Building Walgreens Drug Store - Ste. B103 only

Address 7115 E. Tanque Verde Road

City Tucson, AZ

Field Investigator Gary Bender, R.G. Date Oct. 6, 2017

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0.0	Ambient air in manager's office	No VOCs stored
0.0	Ambient air in product shelving area	Cosmetics, medical supplies, automotive products, etc.

Comments:

Suite B103 is a large suite (14,065 sf), with a customer shopping area, pharmacy, lunch room, bathrooms warehouse, and managers office. There are numerous products that may contain VOCs.
~~The suite next door (B104) is Ace Hardware which may also store and sell products containing VOCs.~~