

Mr. Gabe Stivala, P.G
Cardno ATC
701 University Drive Suite 701
Sacramento, CA 95825

RECEIVED
By Alameda County Environmental Health 12:13 pm, Aug 19, 2015

Subject: External Soil and Soil Vapor Assessment Report

580 Market Place Shopping Center
Alameda County LOP No. RO 3097

Dear Mr. Stivala:

I have reviewed and approved the subject report. Please submit it to the regulatory agencies listed in the distribution section of the report. Should any of the agencies require it, I am prepared to declare, under penalty of perjury, that to the best of my knowledge, the information contained in the report is true and correct.

Sincerely,

Charles Gurney

Charles Gurney

Weingarten Realty Investors

2600 Citadel Plaza Drive, Suite 300

Houston, Texas 77008

Date: 8/14/15

August 14, 2015
Cardno ATC 286303.R03

Ms. Karel Detterman
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Cardno ATC
701 University Ave, Suite 200
Sacramento, CA 95825
Phone: +1 916 339 0477
Fax: +1 916 339 0484
www.cardno.com
www.cardnoatc.com

SUBJECT External Soil and Soil Vapor Assessment Report
Dry Clean 580
3735 East Castro Valley Boulevard
Alameda County LOP No. RO 3097

Ms. Detterman:

On behalf of Weingarten Realty Investors (Weingarten), Cardno ATC installed and sampled soil vapor sampling wells SV-16 through SV-24 in the exterior parking lot southeast of the retail units adjacent to the site. The work was conducted in accordance with Cardno ATC's *Exterior Soil and Soil Vapor Assessment Work Plan (Scope of Work)*, dated December 19, 2014 (Cardno ATC, 2014), and *Response to Comments and Work Plan Addendum (Addendum)*, dated April 22, 2015 (Cardno ATC, 2015a). The Alameda County Environmental Health (ACEH) approved the Scope of Work and Addendum, upon contingent submittals, in electronic correspondence dated May 14, 2015 (Appendix A). The ACEH granted an extension for this work in electronic correspondence dated July 8, 2015 (Appendix A).

SITE DESCRIPTION

The site is located in the 580 Market Place Shopping Center in Castro Valley, California (Plate 1). A Generalized Site Plan illustrating the layout of pertinent areas of the shopping center is included as Plate 2. The assessment targets include the Dry Clean 580 facility, the adjacent Verizon and AT&T retail outlets, and the parking lot southeast of the buildings.

August 14, 2015
Cardno ATC 286303.R03 Dry Clean 580, Castro Valley, California

SOIL VAPOR SAMPLING WELL INSTALLATIONS

The outdoor soil vapor assessment was conducted in accordance with the Scope of Work and Addendum, the protocols included in Appendix B, a site-specific safety plan, and applicable regulatory guidelines under the advisement of a professional geologist. Well locations are shown on Plate 2.

Pre-Field Activities

Prior to site mobilization for vapor assessment activities, Cardno ATC visited the site to check for subsurface obstructions and to mark the proposed locations. Underground Service Alert (USA), ACEH, and the respective tenants were notified at least 48 hours prior to the onset of field activities. Well installation permits from the ACEH are included in Appendix C.

Well Installation and Sampling

From June 1 through 6, 2015, Cardno ATC observed Gregg Drilling Company (Gregg) advance soil borings for wells SV-16 through SV-24 to a maximum depth of 22 feet bgs using hand tools. The wells were constructed as dual-completion 0.25-inch Teflon tubing wells with a soil vapor probe diffuser at 5 feet bgs ("A wells") and between 15 and 22 feet bgs ("B wells"). Select soil samples were preserved for laboratory analysis. In addition, Cardno ATC collected two soil samples from 6 to 8 feet bgs using a Shelby tube for physical soil properties analysis from wells SV-23 and SV-24. Well construction details are presented in Table 1 and on the boring logs included in Appendix D. Well locations are shown on Plate 2.

On June 22, 2015, a purge volume test was conducted on soil vapor sampling well SV-24 at both the shallow ("A") and deep ("B") intervals. Based on the results of the purge volume test, a three volume purge was selected for both the shallow and deep sample collection event. From June 25 to 26, 2015, Cardno ATC purged and sampled soil vapor wells SV-16 through SV-24. A duplicate sample was collected from well SV-23A.

To assess potential leaks in the sampling equipment, a purging and sampling manifold was connected to each well prior to purging and sampling. Cardno ATC then applied a vacuum of approximately 20 inches of mercury (in Hg) to the sample collection system and turned off the vacuum pump. The sampling manifold and tubing held the applied vacuum for five minutes at each well.

To further assess the potential for leaks in the vapor well system, a shroud was placed over the well and Summa™ canister. Helium was introduced into the shroud and maintained at a constant concentration (approximately 10%), as measured on a helium meter. Real-time helium screening was performed in the field by drawing soil vapor from the well into a Tedlar bag via a vacuum chamber and screening the contents of the

August 14, 2015
Cardno ATC 286303.R03 Dry Clean 580, Castro Valley, California

Tedlar bag with a helium meter. The concentration of helium in the sample divided by the concentration of helium in the shroud provides a measure of the proportion of the sample attributable to leakage. Leaked air that comprises less than 5% of the sample is considered insignificant (DTSC, 2012). Helium was detected in select Tedlar bag samples, indicating there was a slight leak in the annular seal or sampling tubing and did not exceed DTSC guidance. Field data sheets are included in Appendix E.

Laboratory Analyses – Soil Samples

Cardno ATC collected and submitted soil samples for analysis to Calscience Environmental Laboratories, Inc. (Calscience), of Garden Grove, California, a California state-certified laboratory, under COC protocol. The samples were analyzed for:

- TPHg by EPA Method 8015B.
- BTEX, MTBE, fuel oxygenates (DIPE, ETBE, TAME, and TBA), lead scavengers (EDB and 1,2-DCA), and additional VOCs by EPA Method 8260B.
- Soil grain size analysis by American Society for Testing and Materials (ASTM) Method D422.
- Physical properties by American Petroleum Institute (API) RP40, ASTM D425M, Walkley-Black, ASTM D5084, ASTM D4318, ASTM D2487, and EPA Method 9100.

Laboratory analytical reports and COC records are provided in Appendix F. Soil sample analytical results are presented in Table 2. Physical properties analyses of soil are presented in Table 3.

Laboratory Analyses – Soil Vapor Samples

Cardno ATC collected and submitted soil vapor samples for analysis to Calscience under COC protocol. The samples were analyzed for:

- TPHg by GC/MS C6-C12 as Gasoline.
- BTEX, MTBE, fuel oxygenates (DIPE, ETBE, TAME, and TBA), lead scavengers (EDB and 1,2-DCA), and additional VOCs by EPA Method TO-15.
- Naphthalene by EPA TO-17(M)
- Helium by ASTM-D1946(M).
- Oxygen, carbon dioxide, methane by SCAQMD 25.1M

Laboratory analytical reports and COC records are provided in Appendix F. Select soil vapor analytical results are presented in Tables 4A and 4B.

August 14, 2015
Cardno ATC 286303.R03 Dry Clean 580, Castro Valley, California

Waste Management

Soil generated during drilling activities was stored at the site in DOT-approved 55-gallon drums pending waste disposal. Eight 55-gallon drums of soil are awaiting removal from the site. Waste documentation will be reported separately.

RESULTS AND DATA EVALUATION

Cumulative soil and soil vapor analytical results are summarized in Table 2 and Tables 4A and 4B, respectively. Select soil vapor analytical results are illustrated on Plate 3. Select soil vapor analytical results are illustrated on Plate 4. Shallow and deep contour maps for soil vapor and soil are illustrated on Plates 5 through 8.

Petroleum Hydrocarbons in Soil

Petroleum hydrocarbon concentrations were reported in select soil samples collected from borings SV-20 and SV-23. Residual TPHg (1.0 mg/kg) was only reported in soil samples collected from boring SV-20 at 25 feet bgs. Residual cis-1,2-dichloroethene (0.083 mg/kg) was only reported in soil samples collected from SV-23 at 4.5 feet bgs. Petroleum hydrocarbon concentrations in the soil samples did not exceed applicable ESLs (CRWQCB-SFB, 2013).

Petroleum Hydrocarbons in Soil Vapor

Maximum vapor-phase concentrations of TPHg (89,000 $\mu\text{g}/\text{m}^3$) and benzene (270 $\mu\text{g}/\text{m}^3$) in soil vapor were reported in the samples collected from wells SV-23A and SV-19A, respectively.

Select vapor-phase concentrations exceeded ESLs (CRWQCB-SFB, 2013):

- **PCE:** 20,000 $\mu\text{g}/\text{m}^3$ (SV-23A), 14,000 $\mu\text{g}/\text{m}^3$ (SV-23A Dup), 17,000 $\mu\text{g}/\text{m}^3$ (SV-23B); 3,000 $\mu\text{g}/\text{m}^3$ (SV-24A).
- **TCE:** 40,000 $\mu\text{g}/\text{m}^3$ (SV-23A) and 33,000 (SV-23A Dup).
- **Cis-1,2-dichloroethene:** 53,000 $\mu\text{g}/\text{m}^3$ (SV-23A) and 47,000 (SV-23A Dup).
- **Vinyl chloride:** 1,700 $\mu\text{g}/\text{m}^3$ (SV-23A) and 1,300 (SV-23A Dup).
- **Naphthalene (EPA TO-17):** 410 $\mu\text{g}/\text{m}^3$ (SV-22A).

Naphthalene by EPA Method TO-17 was reported above ESLs in well SV-22A; however, naphthalene by EPA Method TO-15 in the same well collected on the same day was below reporting limits (<37 $\mu\text{g}/\text{m}^3$).

CONCLUSIONS AND RECOMMENDATIONS

Based on site conditions described in this report, Cardno ATC concludes that:

- With the exception of TPHg (1.0 mg/kg) in one sample (S-25-SV20), residual petroleum hydrocarbon concentrations were not present in soil samples collected from the parking lot southeast of the site.
- Residual VOC concentrations were not present in soil samples collected from the parking lot southeast of the site.
- Vapor-phase VOC concentrations are adequately delineated in both shallow and deep soil vapor in the parking lot southeast of the site.
- Maximum VOC concentrations appear to be spatially associated with the sewer lateral southeast of the building and decrease with distance from the building.
- With the exception of naphthalene, vapor-phase petroleum hydrocarbons do not exceed ESLs.
- No point source of a petroleum hydrocarbon release was identified in this assessment.

In addition to the soil and soil vapor assessment, Cardno ATC intended that data collected would be used to further evaluate the effect of petroleum hydrocarbons on the natural attenuation of the chlorinated solvents in soil and soil vapor, and the ability of vinyl chloride to continue on the path of reductive chlorination. In Cardno ATC's opinion, the limited number of data points and detections of PCE breakdown products at the site, including vinyl chloride, does not allow meaningful evaluation of this process. Comparison of empirical data over time is the best and only accurate means of evaluating this process. Additionally, Cardno ATC is not aware of an industry-accepted model for evaluating the effects of non-chlorinated hydrocarbons on the degradation of chlorinated hydrocarbons in soil and soil vapor.

Cardno ATC has the following observations relative to the effects of non-chlorinated hydrocarbons on chlorinated hydrocarbons at the site:

- Aerobic conditions exist in soil vapor underlying the site.
- Reductive dechlorination occurs under anaerobic conditions.
- Non-chlorinated aliphatic and aromatic compounds, including fuel hydrocarbons, provide carbon to the degradation mechanism.
- Degradation is likely occurring in soil moisture rather than soil vapor; degradation rates are slower than those occurring in dissolved-phase plumes.
- Degradation of chlorinated hydrocarbons requires carbon; the presence of fuel hydrocarbons is advantageous for degradation.
- It is unlikely that the vapor-phase chlorinated hydrocarbons, including vinyl chloride, will degrade by reductive dechlorination; however, degradation by other (aerobic) mechanisms is likely.

August 14, 2015
Cardno ATC 286303.R03 Dry Clean 580, Castro Valley, California

Based on the results of this investigation, Cardno ATC concludes that the current soil vapor and soil concentrations are adequately assessed in the parking lot southeast of the dry cleaner and adjacent units and that reported subsurface hydrocarbons do not likely pose a risk to human health or the environment. Weingarten and Cardno request a meeting with the ACEH to discuss the path forward for the site following ACEH’s review of this report and the *Sub-Slab Vapor and Indoor Air Assessment Report*, dated May 4, 2015 (Cardno ATC, 2015b).

LIMITATIONS

For documents cited that were not generated by Cardno ATC, the data taken from those documents is used “as is” and is assumed to be accurate. Cardno ATC does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This document and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability, and specialized knowledge necessary to perform the work in a good and workmanlike manner and within all accepted standards pertaining to providers of environmental services in California at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

Please contact Mr. Gabe Stivala, Cardno ATC’s Senior Project Manager for this site, at (916) 923-1097 or at gabe.stivala@cardno.com or with any questions regarding this report.

Sincerely,


**SCANNED
IMAGE**

Nadya M. Vicente
Senior Staff Geologist
for Cardno
707 766 2000
Email: nadya.vicente@cardno.com


**SCANNED
IMAGE**

Gabe Stivala
Senior Project Manager
for Cardno ATC
916 923 1097
Email: gabe.stivala@cardno.com



August 14, 2015
Cardno ATC 286303.R03 Dry Clean 580, Castro Valley, California

Enclosures:

References

Acronym List

Plate 1	Site Vicinity Map
Plate 2	Generalized Site Plan
Plate 3	Select Soil Vapor Analytical Results
Plate 4	Select Soil Analytical Results
Plate 5	Soil Vapor Concentrations – Shallow
Plate 6	Soil Vapor Concentrations – Deep
Plate 7	Soil Concentrations – Shallow (0-15 Feet)
Plate 8	Soil Concentrations – Deep (Greater than 15 Feet)
Table 1	Well Construction Details
Table 2	Select Soil Analytical Results, Detected Concentrations
Table 3A	Soil Properties
Table 3B	Additional Soil Properties
Table 4A	Select Soil Vapor Analytical Results, Detected Concentrations
Table 4B	Additional Select Soil Vapor Analytical Results, Detected Concentrations
Appendix A	Correspondence
Appendix B	Field Protocols
Appendix C	Permits
Appendix D	Boring Logs
Appendix E	Field Data Sheets
Appendix F	Laboratory Analytical Reports

cc: Mr. Chuck Gurney, Weingarten Realty Investors
Mr. Thomas J. Treacy, John Hancock Life Insurance Company USA

August 14, 2015
Cardno ATC 286303.R03 Dry Clean 580, Castro Valley, California

REFERENCES

California Regional Water Quality Control Board, San Francisco Bay Region (CRWQCB-SFB). December 2013. *Screening for Environmental Concerns at Sites with Indoor Air and Soil Gas.*

Cardno ATC. December 19, 2014. *Exterior Additional Soil and Soil Vapor Assessment Work Plan, 580 Market Place Shopping Center, Castro Valley, California, Alameda County LPO Order No. 3097.*

Cardno ATC. April 22, 2015a. *Response to Comments and Work Plan Addendum, 580 Market Place Shopping Center, Castro Valley, California, Alameda County LPO Order No. 3097.*

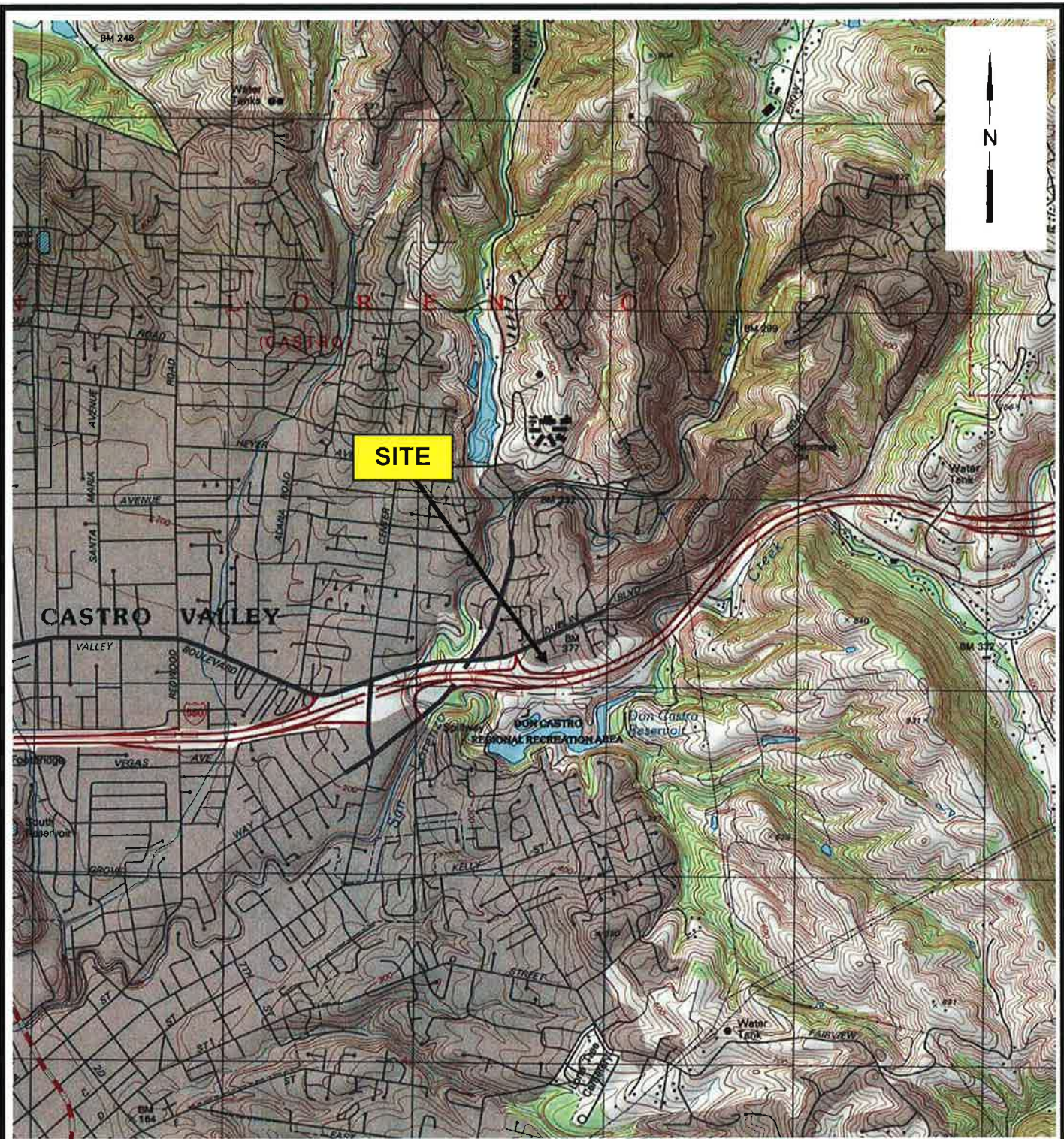
Cardno ATC. May 4, 2015b. *Sub-Slab Vapor and Indoor Air Assessment Report, 580 Market Place Shopping Center, Castro Valley, California, Alameda County LPO Order No. 3097.*

Department of Toxic Substances Control of the California Environmental Protection Agency, Department of Toxic Substances Control, California Regional Water Quality Control Board, Los Angeles Region and San Francisco Region; jointly issued (DTSC). April 2012. *Advisory – Active Soil Gas Investigations.*

August 14, 2015
 Cardno ATC 286303.R03 Dry Clean 580, Castro Valley, California

ACRONYM LIST

µg/L	Micrograms per liter	NEPA	National Environmental Policy Act
µs	Microsiemens	NGVD	National Geodetic Vertical Datum
1,2-DCA	1,2-dichloroethane	NPDES	National Pollutant Discharge Elimination System
acfm	Actual cubic feet per minute	O&M	Operations and Maintenance
AS	Air sparge	ORP	Oxidation-reduction potential
bgs	Below ground surface	OSHA	Occupational Safety and Health Administration
BTEX	Benzene, toluene, ethylbenzene, and total xylenes	OVA	Organic vapor analyzer
CEQA	California Environmental Quality Act	P&ID	Process & Instrumentation Diagram
cfm	Cubic feet per minute	PAH	Polycyclic aromatic hydrocarbon
COC	Chain of Custody	PCB	Polychlorinated biphenyl
CPT	Cone Penetration (Penetrometer) Test	PCE	Tetrachloroethene or perchloroethylene
DIPE	Di-isopropyl ether	PID	Photo-ionization detector
DO	Dissolved oxygen	PLC	Programmable logic control
DOT	Department of Transportation	POTW	Publicly owned treatment works
DPE	Dual-phase extraction	ppmv	Parts per million by volume
DTW	Depth to water	PQL	Practical quantitation limit
EDB	1,2-dibromoethane	psi	Pounds per square inch
EPA	Environmental Protection Agency	PVC	Polyvinyl chloride
ESL	Environmental screening level	QA/QC	Quality assurance/quality control
ETBE	Ethyl tertiary butyl ether	RBSL	Risk-based screening levels
FID	Flame-ionization detector	RCRA	Resource Conservation and Recovery Act
fpm	Feet per minute	RL	Reporting limit
GAC	Granular activated carbon	scfm	Standard cubic feet per minute
gpd	Gallons per day	SSTL	Site-specific target level
gpm	Gallons per minute	STLC	Soluble threshold limit concentration
GWPTS	Groundwater pump and treat system	SVE	Soil vapor extraction
HVOC	Halogenated volatile organic compound	SVOC	Semivolatile organic compound
J	Estimated value between MDL and PQL (RL)	TAME	Tertiary amyl methyl ether
LEL	Lower explosive limit	TBA	Tertiary butyl alcohol
LPC	Liquid-phase carbon	TCE	Trichloroethene
LRP	Liquid-ring pump	TOC	Top of well casing elevation; datum is msl
LUFT	Leaking underground fuel tank	TOG	Total oil and grease
LUST	Leaking underground storage tank	TPHd	Total petroleum hydrocarbons as diesel
MCL	Maximum contaminant level	TPHg	Total petroleum hydrocarbons as gasoline
MDL	Method detection limit	TPHmo	Total petroleum hydrocarbons as motor oil
mg/kg	Milligrams per kilogram	TPHs	Total petroleum hydrocarbons as stoddard solvent
mg/L	Milligrams per liter	TRPH	Total recoverable petroleum hydrocarbons
mg/m ³	Milligrams per cubic meter	UCL	Upper confidence level
MPE	Multi-phase extraction	USCS	Unified Soil Classification System
MRL	Method reporting limit	USGS	United States Geologic Survey
msl	Mean sea level	UST	Underground storage tank
MTBE	Methyl tertiary butyl ether	VCP	Voluntary Cleanup Program
MTCA	Model Toxics Control Act	VOC	Volatile organic compound
NAI	Natural attenuation indicators	VPC	Vapor-phase carbon
NAPL	Non-aqueous phase liquid		



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 CASTRO VALLEY QUADRANGLE, CALIFORNIA, DATED 1968, PHOTOREVISED 1987.

FIGURE 1
SITE VICINITY MAP

**580 MARKET PLACE SHOPPING CENTER
 3735-4065 EAST CASTRO VALLEY BOULEVARD
 CASTRO VALLEY, CALIFORNIA 94552**



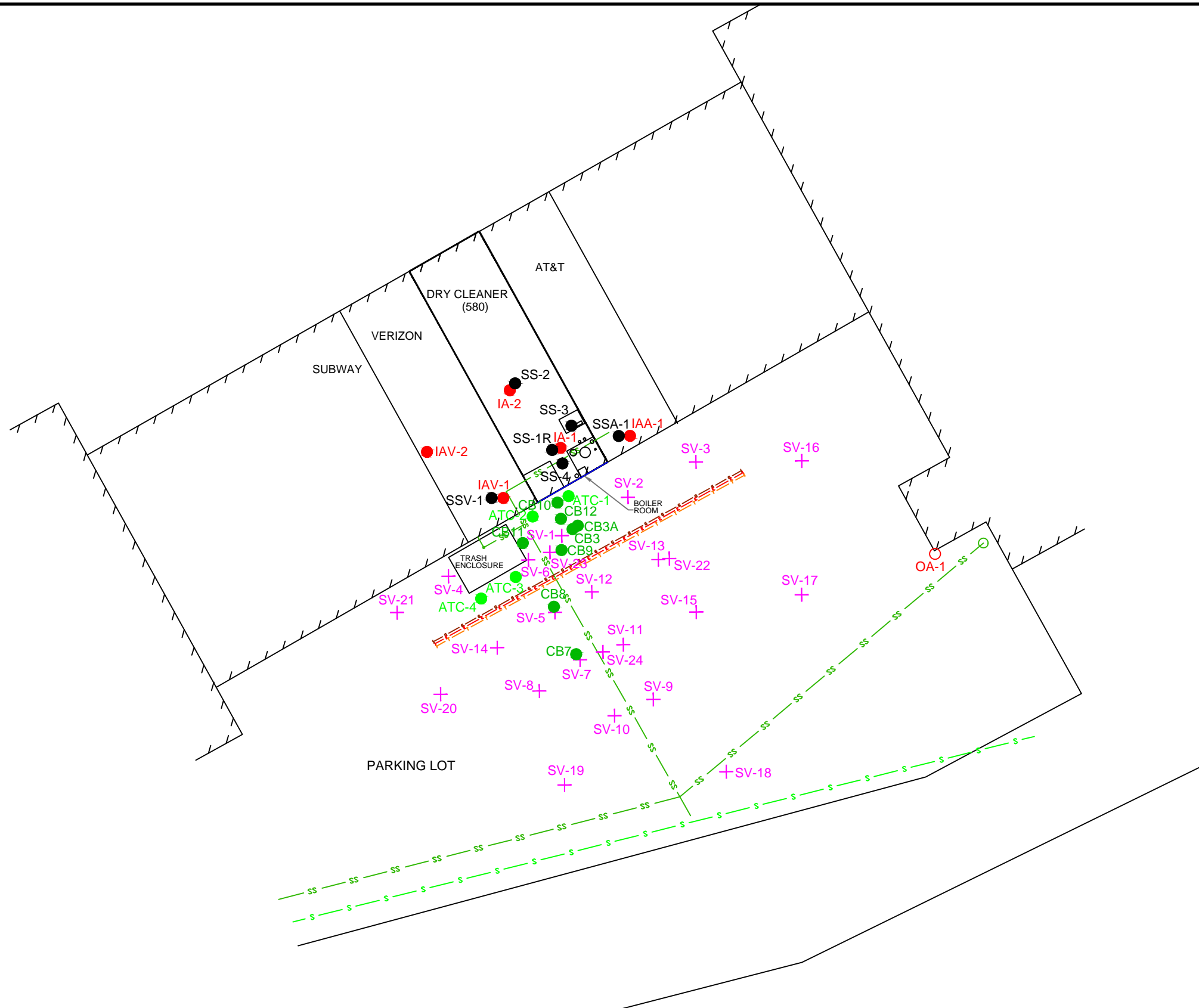
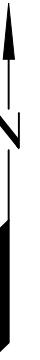
Cardno
ATC

Shaping the Future

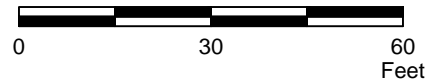
1117 Lone Palm Ave, Ste 201B
 Modesto, CA 95351
 (209) 579-2221

PROJECT NO: 075.75356.0002

DESIGNED BY: JK	SCALE: 1:24,000	REVIEWED BY: JH
DRAWN BY: JK	DATE: 10/12	FILE: LOCATION



APPROXIMATE SCALE



FN 28630002 R03



GENERALIZED SITE PLAN

DRY CLEAN 580
3735 E. Castro Valley Boulevard
Castro Valley, CA

EXPLANATION

- SS-4 Sub-Slab Vapor Wells
- SV-24 Soil Vapor Sampling Well
- IAA-1 Indoor Air Sample
- OA-1 Outdoor Air Sample

- ATC-4 Soil Boring
- CB12 Confirmation Soil Boring

- Gas Line
- Electric Line
- Telephone Line
- Sanitary Sewer
- Storm Sewer

PROJECT NO.

2863

PLATE

2

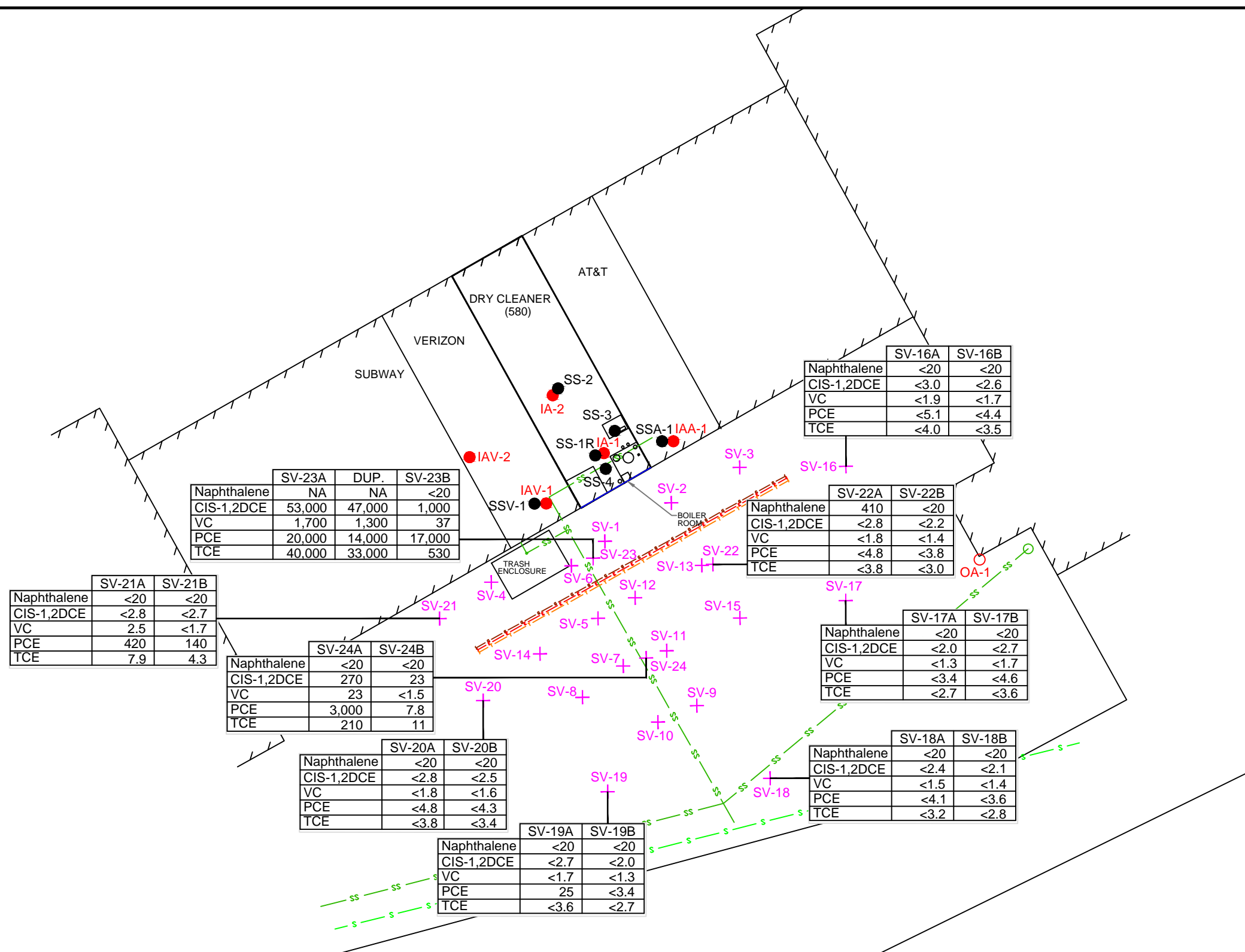
Analyte Concentrations in ug/m³

- Naphthalene
- CIS-1,2 Dichloroethene
- Vinyl Chloride
- Tetrachloroethene
- Trichloroethene

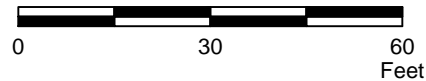
< Less than the Stated Laboratory Reporting Limit

NA Not Analyzed

ug/m³ Micrograms per cubic meter



APPROXIMATE SCALE



FN 28630002 R03



SELECT SOIL VAPOR ANALYTICAL RESULTS June 25 and 26, 2015

DRY CLEAN 580
3735 E. Castro Valley Boulevard
Castro Valley, CA

EXPLANATION

- SS-4 Sub-Slab Vapor Wells
- SV-24 Soil Vapor Sampling Well
- IAA-1 Indoor Air Sample
- OA-1 Outdoor Air Sample

- Gas Line
- Electric Line
- Telephone Line
- Sanitary Sewer
- Storm Sewer

PROJECT NO.

2863

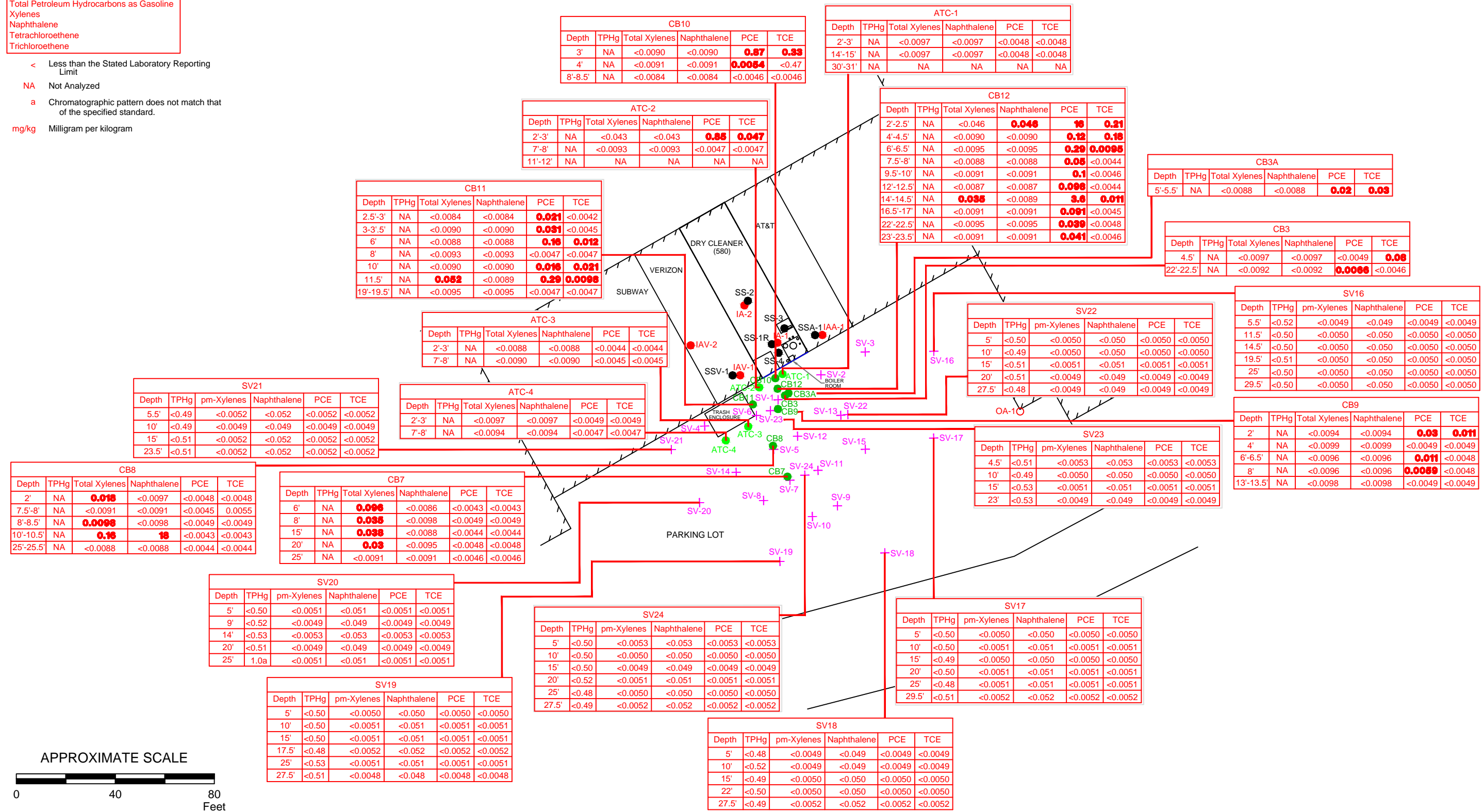
PLATE

3

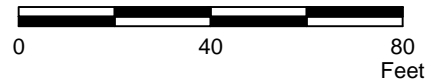
All Concentrations in mg/kg

Total Petroleum Hydrocarbons as Gasoline
 Xylenes
 Naphthalene
 Tetrachloroethene
 Trichloroethene

< Less than the Stated Laboratory Reporting Limit
 NA Not Analyzed
 a Chromatographic pattern does not match that of the specified standard.
 mg/kg Milligram per kilogram



APPROXIMATE SCALE



FN 2863 15 SOIL ANALYTICAL RESULTS_SP R03



SELECT SOIL ANALYTICAL RESULTS

DRY CLEAN 580
 3735 E. Castro Valley Boulevard
 Castro Valley, CA

EXPLANATION

- SS-4 Sub-Slab Vapor Wells
- SV-24 Soil Vapor Sampling Well
- IAA-1 Indoor Air Sample
- OA-1 Outdoor Air Sample

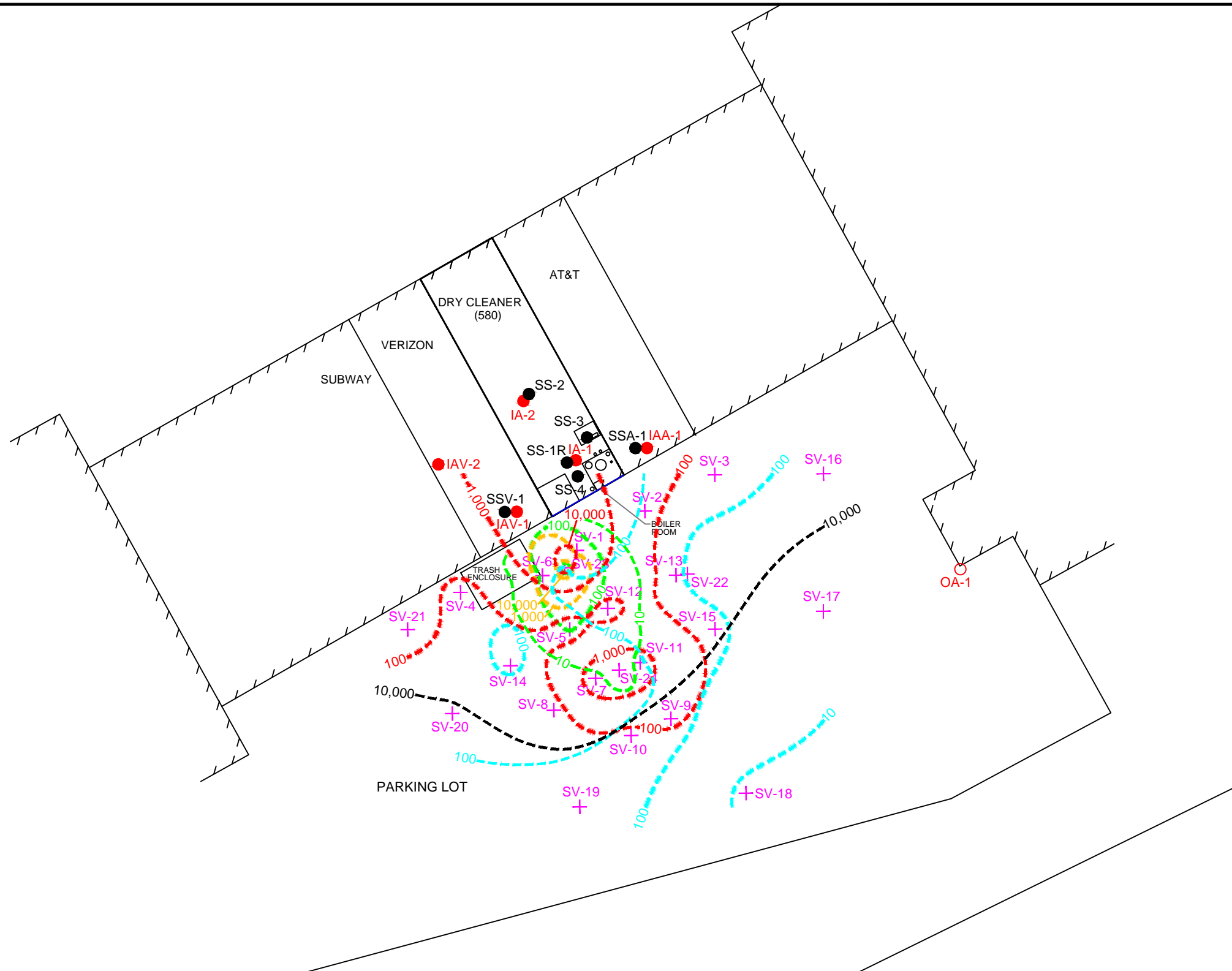
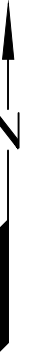
- ATC-4 Soil Boring
- CB12 Confirmation Soil Boring

PROJECT NO.

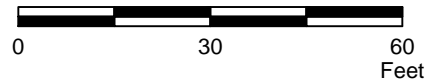
2863

PLATE

4



APPROXIMATE SCALE



FN 28630002 R03



SOIL VAPOR CONCENTRATIONS - SHALLOW

DRY CLEAN 580
3735 E. Castro Valley Boulevard
Castro Valley, CA

EXPLANATION

- SS-4 Sub-Slab Vapor Wells
- SV-24 Soil Vapor Sampling Well
- IAA-1 Indoor Air Sample
- OA-1 Outdoor Air Sample

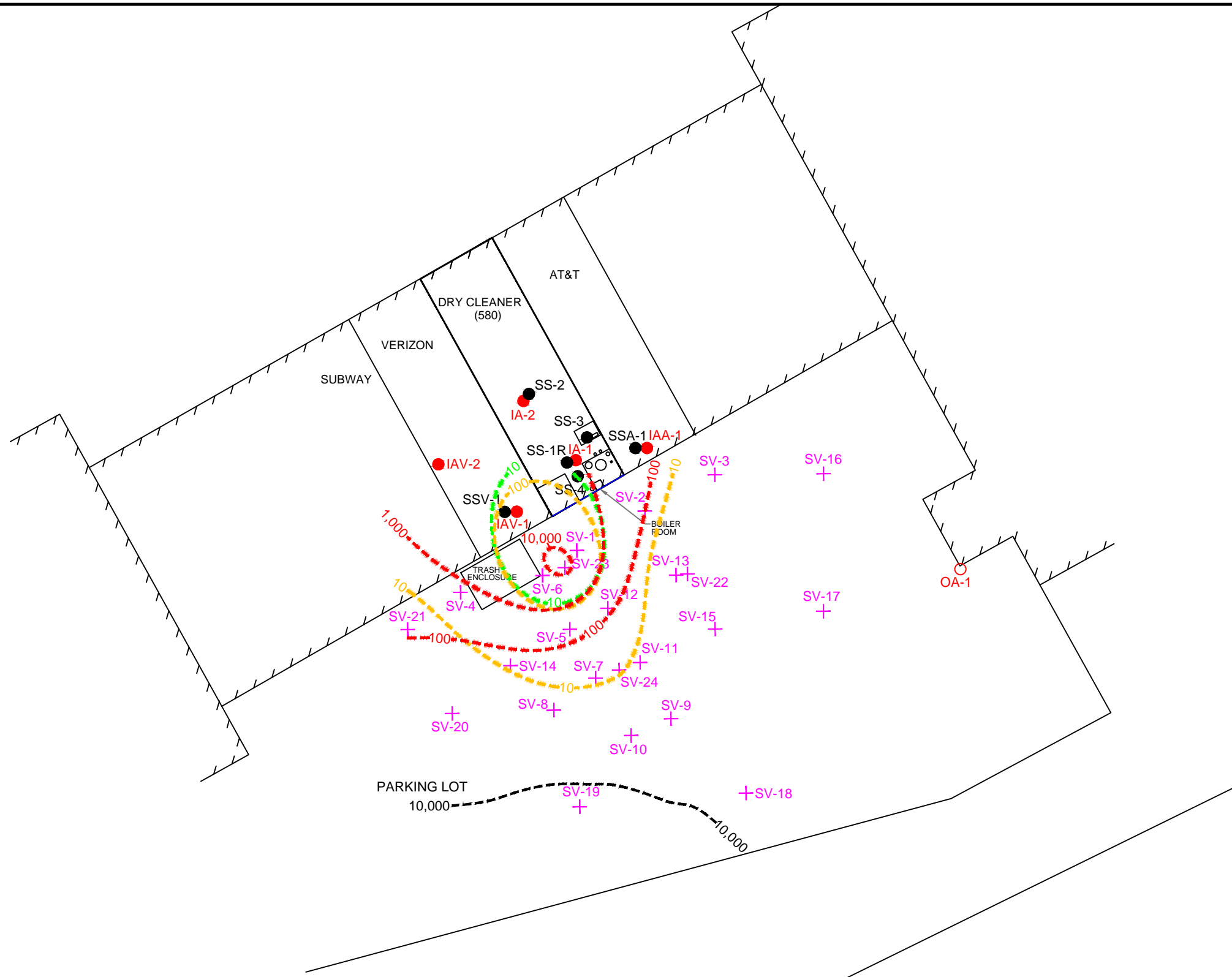
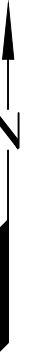
- 10,000 Line of Equal PCE Concentration (ug/m³)
 - 10,000 Line of Equal TCE Concentration (ug/m³)
 - 10,000 Line of Equal TPHg Concentration (ug/m³)
 - 100 Line of Equal Benzene Concentration (ug/m³)
 - 100 Line of Equal Vinyl Chloride Concentration (ug/m³)
- (ug/m³) Micrograms per Cubic Meter

PROJECT NO.

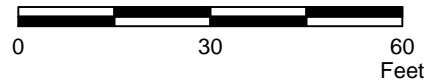
2863

PLATE

5



APPROXIMATE SCALE



FN 28630002 R03



SOIL VAPOR CONCENTRATIONS - DEEP

DRY CLEAN 580
3735 E. Castro Valley Boulevard
Castro Valley, CA

EXPLANATION

- SS-4 Sub-Slab Vapor Wells
- SV-24 Soil Vapor Sampling Well
- IAA-1 Indoor Air Sample
- OA-1 Outdoor Air Sample

10,000 Line of Equal PCE Concentration (ug/m³)

10,000 Line of Equal TCE Concentration (ug/m³)

10,000 Line of Equal TPHg Concentration (ug/m³)

100 Line of Equal Vinyl Chloride Concentration (ug/m³)

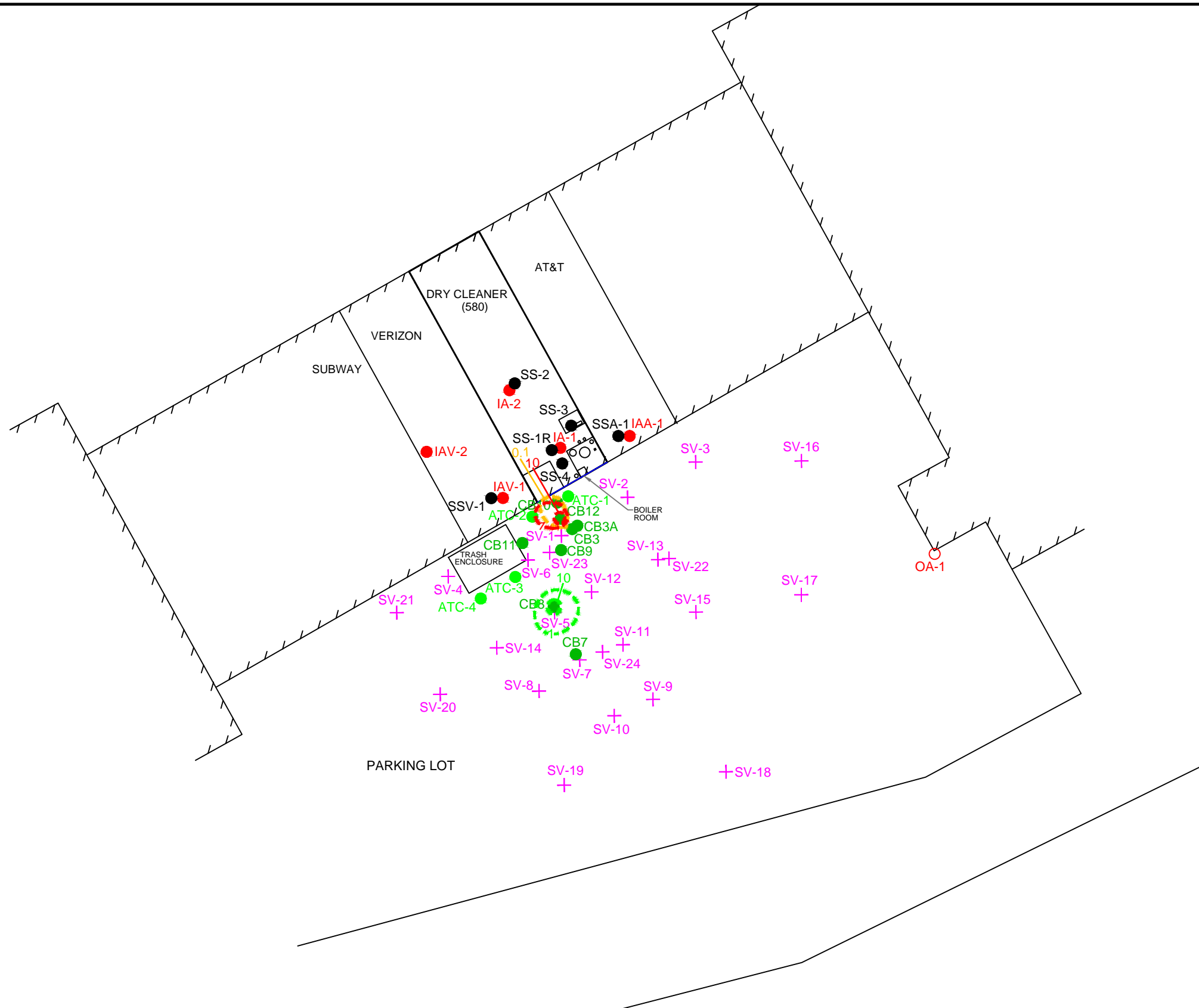
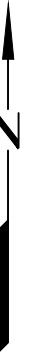
(ug/m³) Micrograms per Cubic Meter

PROJECT NO.

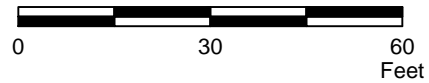
2863

PLATE

6



APPROXIMATE SCALE



FN 28630002 R03



SOIL CONCENTRATIONS SHALLOW (0-15 FEET)

DRY CLEAN 580
3735 E. Castro Valley Boulevard
Castro Valley, CA

EXPLANATION

- SS-4 Sub-Slab Vapor Wells
- SV-24 Soil Vapor Sampling Well
- IAA-1 Indoor Air Sample
- OA-1 Outdoor Air Sample

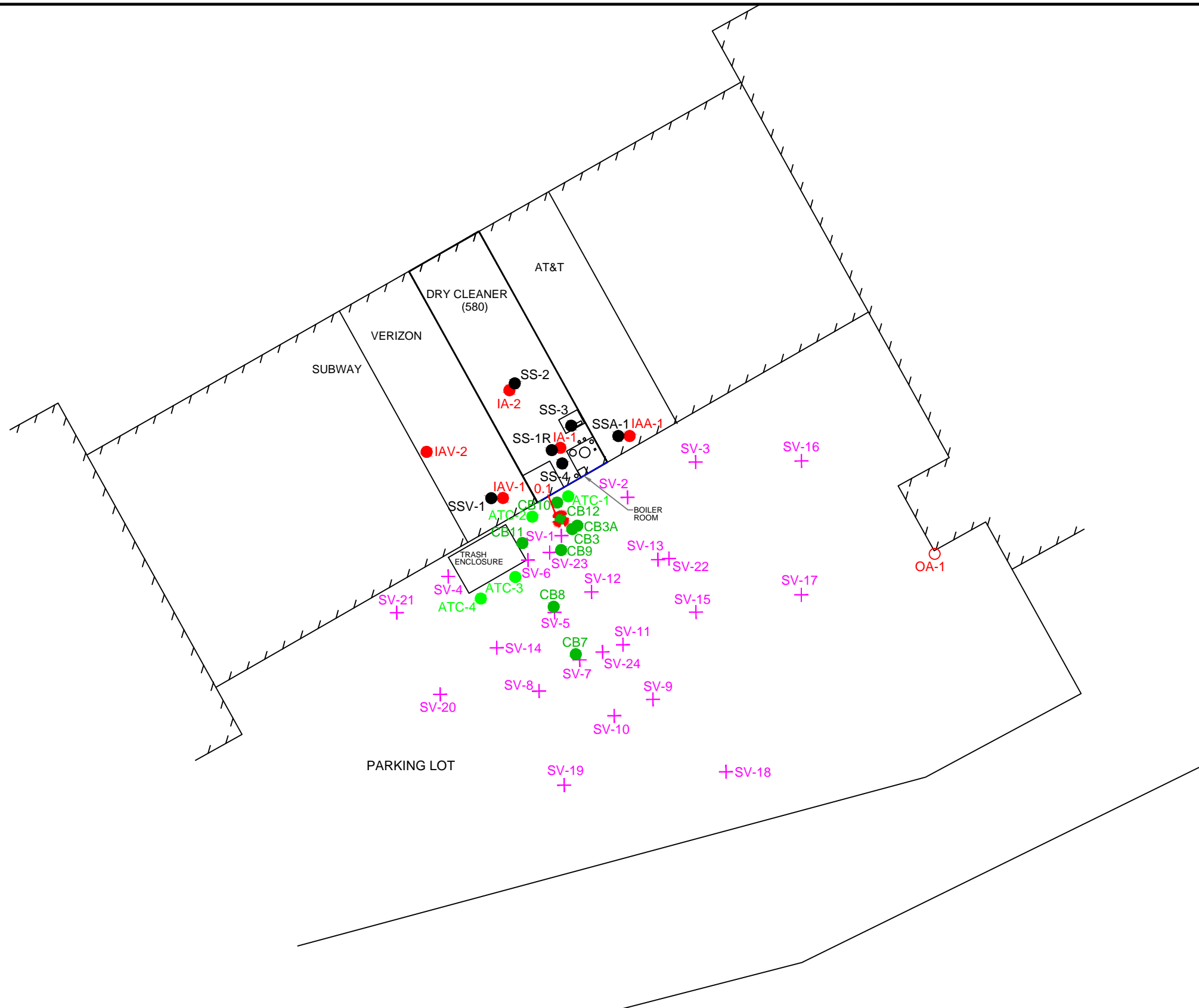
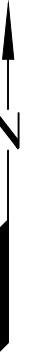
- ATC-4 Soil Boring
- CB12 Confirmation Soil Boring
- 10 Line of Equal PCE Concentration (mg/kg)
- 0.1 Line of Equal TCE Concentration (mg/kg)
- 10 Line of Equal Naphthalene Concentration (mg/kg)

PROJECT NO.

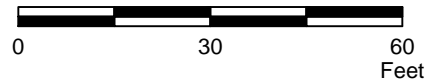
2863

PLATE

7



APPROXIMATE SCALE



FN 28630002 R03



SOIL CONCENTRATIONS DEEP (GREATER THAN 15 FEET)

DRY CLEAN 580
3735 E. Castro Valley Boulevard
Castro Valley, CA

EXPLANATION

- SS-4 Sub-Slab Vapor Wells
- SV-24 Soil Vapor Sampling Well
- IAA-1 Indoor Air Sample
- OA-1 Outdoor Air Sample

- ATC-4 Soil Boring
- CB12 Confirmation Soil Boring

0.1 Line of Equal PCE Concentration (mg/kg)

PROJECT NO.

2863

PLATE

8

TABLE 1
WELL CONSTRUCTION DETAILS
 Dry Clean 580
 3735 East Castro Valley Boulevard
 Castro Valley, California
 (Page 1 of 1)

Well ID	Well Installation Date	Boring Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Well Casing Material	Filter Pack Material
SV-16A	06/03/15	30	5	4	0.25	4.25-4.75	SS Mesh	4-5	Teflon Tubing	#3 Sand
SV-16B	06/03/15	30	20	4	0.25	19.25-19.75	SS Mesh	19-20	Teflon Tubing	#3 Sand
SV-17A	06/03/15	30	5	4	0.25	4.25-4.75	SS Mesh	4-5	Teflon Tubing	#3 Sand
SV-17B	06/03/15	30	20	4	0.25	19.25-19.75	SS Mesh	19-20	Teflon Tubing	#3 Sand
SV-18A	06/04/15	28	5	4	0.25	4.25-4.75	SS Mesh	4-5	Teflon Tubing	#3 Sand
SV-18B	06/04/15	28	22	4	0.25	21.25-21.75	SS Mesh	21-22	Teflon Tubing	#3 Sand
SV-19A	06/04/15	28	5	4	0.25	4.25-4.75	SS Mesh	4-5	Teflon Tubing	#3 Sand
SV-19B	06/04/15	28	15	4	0.25	14.25-14.75	SS Mesh	14-15	Teflon Tubing	#3 Sand
SV-20A	06/04/15	27	5	4	0.25	4.25-4.75	SS Mesh	4-5	Teflon Tubing	#3 Sand
SV-20B	06/04/15	27	15	4	0.25	14.25-14.75	SS Mesh	14-15	Teflon Tubing	#3 Sand
SV-21A	06/05/15	24	5	4	0.25	4.25-4.75	SS Mesh	4-5	Teflon Tubing	#3 Sand
SV-21B	06/05/15	24	15	4	0.25	14.25-14.75	SS Mesh	14-15	Teflon Tubing	#3 Sand
SV-22A	06/04/15	28	5	4	0.25	4.25-4.75	SS Mesh	4-5	Teflon Tubing	#3 Sand
SV-22B	06/04/15	28	15	4	0.25	14.25-14.75	SS Mesh	14-15	Teflon Tubing	#3 Sand
SV-23A	06/05/15	25	5	4	0.25	4.25-4.75	SS Mesh	4-5	Teflon Tubing	#3 Sand
SV-23B	06/05/15	25	15	4	0.25	14.25-14.75	SS Mesh	14-15	Teflon Tubing	#3 Sand
SV-24A	06/05/15	24	5	4	0.25	4.25-4.75	SS Mesh	4-5	Teflon Tubing	#3 Sand
SV-24B	06/05/15	24	15	4	0.25	14.25-14.75	SS Mesh	14-15	Teflon Tubing	#3 Sand

Notes:

SS = Stainless steel.

**TABLE 2
SELECT SOIL ANALYTICAL RESULTS, DETECTED CONCENTRATIONS**

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 1 of 4)

Sampling ID	Sampling Depth	Sampling Date	EPA 8015B	EPA 8260B										
			TPHg (mg/kg)	Ethyl-benzene (mg/kg)	o-Xylenes (mg/kg)	pm-Xylenes (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	Tetrachloro-ethene (mg/kg)	Trichloro-ethene (mg/kg)	c-1,2-dichloro-ethene (mg/kg)	t-1,2-dichloro-ethene (mg/kg)	Acetone (mg/kg)	Additional VOCs (mg/kg)
Environmental Screening Levels, Commercial/Industrial Soil where Groundwater is a Potential Drinking Water Source (December 2013)														
Shallow (≤10 feet bgs), Table A-2			500	3.3	2.3b	2.3b	2.3	1.2	0.7	0.46	0.19	0.67	0.5	---
Deep (>10 feet bgs), Table C-2			770	3.3	2.3b	2.3b	2.3	1.2	0.7	0.46	0.19	0.67	0.5	---
Limited Subsurface Assessment														
ATC-1 (2')	2-3	03/01/12	---	<0.0048	---	---	<0.0097	<0.0097	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	ND
ATC-1 (15')	14-15	03/01/12	---	<0.0048	---	---	<0.0097	<0.0097	<0.0048	<0.0048	<0.0048	<0.0048	0.062	ND
ATC-1 (31')	30-31	03/01/12	---	---	---	---	---	---	---	---	---	---	---	---
ATC-2 (2')	2-3	03/01/12	---	<0.022	---	---	<0.043	<0.043	0.85	0.047	<0.022	<0.022	<0.22	ND
ATC-2 (7.5')	7-8	03/01/12	---	<0.0047	---	---	<0.0093	<0.0093	<0.0047	<0.0047	<0.0047	<0.0047	0.071	ND
ATC-2 (12')	11-12	03/01/12	---	---	---	---	---	---	---	---	---	---	---	---
ATC-3 (2')	2-3	03/01/12	---	<0.0044	---	---	<0.0088	<0.0088	<0.0044	<0.0044	<0.0044	<0.0044	<0.044	ND
ATC-3 (8')	7-8	03/01/12	---	<0.0045	---	---	<0.0090	<0.0090	<0.0045	<0.0045	<0.0045	<0.0045	<0.045	ND
ATC-4 (2')	2-3	03/01/12	---	<0.0049	---	---	<0.0097	<0.0097	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	ND
ATC-4 (8')	7-8	03/01/12	---	<0.0047	---	---	<0.0094	<0.0094	<0.0047	<0.0047	<0.0047	<0.0047	0.079	ND
Data Gap Assessment														
CB3-4.5	4.5	02/06/14	---	<0.0049	---	---	<0.0097	<0.0097	<0.0049	0.08	0.063	0.0057	<0.049	ND
CB3 22-22.5	22-22.5	02/06/14	---	<0.0046	---	---	<0.0092	<0.0092	0.0066	<0.0046	<0.0046	<0.0046	0.12	ND
CB3A 5-5.5	5-5.5	02/07/14	---	<0.0044	---	---	<0.0088	<0.0088	0.02	0.03	<0.0044	<0.0044	<0.044	ND
CB7-6	6	02/05/14	---	0.014	---	---	0.096	<0.0086	<0.0043	<0.0043	<0.0043	<0.0043	0.15	ND
CB7-8	8	02/05/14	---	0.0062	---	---	0.035	<0.0098	<0.0049	<0.0049	<0.0049	<0.0049	0.11	ND
CB7-15	15	02/05/14	---	0.0063	---	---	0.038	<0.0088	<0.0044	<0.0044	<0.0044	<0.0044	0.092	ND
CB7-20	20	02/05/14	---	0.0049	---	---	0.03	<0.0095	<0.0048	<0.0048	<0.0048	<0.0048	0.073	ND
CB7-25	25	02/05/14	---	<0.0046	---	---	<0.0091	<0.0091	<0.0046	<0.0046	<0.0046	<0.0046	0.077	ND
CB8-2	2	02/05/14	---	<0.0048	---	---	0.018	<0.0097	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	ND
CB8 7.5-8	7.5-8	02/05/14	---	<0.0045	---	---	<0.0091	<0.0091	<0.0045	0.0055	<0.0045	<0.0045	0.052	ND
CB8 8-8.5	8-8.5	02/05/14	---	<0.0049	---	---	0.0098	<0.0098	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	ND
CB8 10-10.5	10-10.5	02/05/14	---	0.025	---	---	0.16	18	<0.0043	<0.0043	<0.0043	<0.0043	0.11	ND
CB8 25-25.5	25-25.5	02/05/14	---	<0.0044	---	---	<0.0088	<0.0088	<0.0044	<0.0044	<0.0044	<0.0044	0.074	ND
CB9-2	2	02/06/14	---	<0.0047	---	---	<0.0094	<0.0094	0.03	0.011	<0.0047	<0.0047	<0.047	ND
CB9-4	4	02/06/14	---	<0.0049	---	---	<0.0099	<0.0099	<0.0049	<0.0049	0.007	<0.0049	<0.049	ND
CB9 6-6.5	6-6.5	02/06/14	---	<0.0048	---	---	<0.0096	<0.0096	0.011	<0.0048	<0.0048	<0.0048	<0.048	ND
CB9-8	8	02/06/14	---	<0.0048	---	---	<0.0096	<0.0096	0.0059	<0.0048	<0.0048	<0.0048	0.067	ND
CB9 13-13.5	13-13.5	02/06/14	---	<0.0049	---	---	<0.0098	<0.0098	<0.0049	<0.0049	<0.0049	<0.0049	0.062	ND

**TABLE 2
SELECT SOIL ANALYTICAL RESULTS, DETECTED CONCENTRATIONS**

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 2 of 4)

Sampling ID	Sampling Depth	Sampling Date	EPA 8015B	EPA 8260B										
			TPHg (mg/kg)	Ethyl-benzene (mg/kg)	o-Xylenes (mg/kg)	pm-Xylenes (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	Tetrachloroethene (mg/kg)	Trichloroethene (mg/kg)	c-1,2-dichloroethene (mg/kg)	t-1,2-dichloroethene (mg/kg)	Acetone (mg/kg)	Additional VOCs (mg/kg)
Environmental Screening Levels, Commercial/Industrial Soil where Groundwater is a Potential Drinking Water Source (December 2013)														
Shallow (≤10 feet bgs), Table A-2			500	3.3	2.3b	2.3b	2.3	1.2	0.7	0.46	0.19	0.67	0.5	---
Deep (>10 feet bgs), Table C-2			770	3.3	2.3b	2.3b	2.3	1.2	0.7	0.46	0.19	0.67	0.5	---
CB10-3	3	02/06/14	---	<0.0045	---	---	<0.0090	<0.0090	0.87	0.33	0.054	<0.0045	0.053	ND
CB10-4	4	02/06/14	---	<0.0046	---	---	<0.0091	<0.0091	0.0054	<0.47	0.21	0.0057	0.056	ND
CB10 8-8.5	8-8.5	02/06/14	---	<0.0046	---	---	<0.0091	<0.0091	<0.0046	<0.0046	0.035	<0.0046	<0.046	ND
CB11 2.5-3	2.5-3	02/06/14	---	<0.0042	---	---	<0.0084	<0.0084	0.021	<0.0042	<0.0042	<0.0042	<0.042	ND
CB11 3-3.5	3-3.5	02/06/14	---	<0.0045	---	---	<0.0090	<0.0090	0.031	<0.0045	<0.0045	<0.0045	<0.045	ND
CB11-6	6	02/06/14	---	<0.0044	---	---	<0.0088	<0.0088	0.16	0.012	0.0058	<0.0044	0.076	ND
CB11-8	8	02/06/14	---	<0.0047	---	---	<0.0093	<0.0093	<0.0047	<0.0047	<0.0047	<0.0047	0.048	ND
CB11-10	10	02/06/14	---	<0.0045	---	---	<0.0090	<0.0090	0.016	0.021	<0.0045	<0.0045	<0.045	ND
CB11-11.5	11.5	02/06/14	---	0.0077	---	---	0.052	<0.0089	0.29	0.0098	<0.0045	<0.0045	0.11	ND
CB11 19-19.5	19-19.5	02/06/14	---	<0.0047	---	---	<0.0095	<0.0095	<0.0047	<0.0047	<0.0047	<0.0047	0.052	ND
CB12 2-2.5	2-2.5	02/07/14	---	<0.023	---	---	<0.046	0.046	16	0.21	<0.023	<0.023	<0.23	ND
CB12 4-4.5	4-4.5	02/07/14	---	<0.0045	---	---	<0.0090	<0.0090	0.12	0.18	0.052	0.0046	<0.045	ND
CB12 6-6.5	6-6.5	02/07/14	---	<0.0048	---	---	<0.0095	<0.0095	0.29	0.0095	0.01	<0.0048	<0.048	ND
CB12 7.5-8	7.5-8	02/07/14	---	<0.0044	---	---	<0.0088	<0.0088	0.05	<0.0044	<0.0044	<0.0044	<0.049	ND
CB12 9.5-10	9.5-10	02/07/14	---	<0.0046	---	---	<0.0091	<0.0091	0.1	<0.0046	<0.0046	<0.0046	<0.046	ND
CB12 12-12.5	12-12.5	02/07/14	---	<0.0044	---	---	<0.0087	<0.0087	0.098	<0.0044	<0.0044	<0.0044	<0.044	ND
CB12 14-14.5	14-14.5	02/07/14	---	0.0058	---	---	0.035	<0.0089	3.6	0.011	<0.0044	<0.0044	<0.044	ND
CB12 16.5-17	16.5-17	02/07/14	---	<0.0045	---	---	<0.0091	<0.0091	0.091	<0.0045	<0.0045	<0.0045	0.11	ND
CB12 22-22.5	22-22.5	02/07/14	---	<0.0048	---	---	<0.0095	<0.0095	0.039	<0.0048	<0.0048	<0.0048	0.12	ND
CB12 23-23.5	23-23.5	02/07/14	---	<0.0046	---	---	<0.0091	<0.0091	0.041	<0.0046	<0.0046	<0.0046	<0.046	ND
Soil Vapor Well Installation														
S-5.5-SV16	5.5	06/03/15	<0.52	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND
S-11.5-SV16	11.5	06/03/15	<0.50	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.13	ND
S-14.5-SV16	14.5	06/03/15	<0.50	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.13	ND
S-19.5-SV16	19.5	06/03/15	<0.51	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-25-SV16	25	06/03/15	<0.50	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-29.5-SV16	29.5	06/03/15	<0.50	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-5-SV17	5	06/03/15	<0.50	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-10-SV17	10	06/03/15	<0.50	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-15-SV17	15	06/03/15	<0.49	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-20-SV17	20	06/03/15	<0.50	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-25-SV17	25	06/04/15	<0.48	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND

**TABLE 2
SELECT SOIL ANALYTICAL RESULTS, DETECTED CONCENTRATIONS**

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 3 of 4)

Sampling ID	Sampling Depth	Sampling Date	EPA 8015B	EPA 8260B										
			TPHg (mg/kg)	Ethyl-benzene (mg/kg)	o-Xylenes (mg/kg)	pm-Xylenes (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	Tetrachloroethene (mg/kg)	Trichloroethene (mg/kg)	c-1,2-dichloroethene (mg/kg)	t-1,2-dichloroethene (mg/kg)	Acetone (mg/kg)	Additional VOCs (mg/kg)
Environmental Screening Levels, Commercial/Industrial Soil where Groundwater is a Potential Drinking Water Source (December 2013)														
Shallow (≤10 feet bgs), Table A-2			500	3.3	2.3b	2.3b	2.3	1.2	0.7	0.46	0.19	0.67	0.5	---
Deep (>10 feet bgs), Table C-2			770	3.3	2.3b	2.3b	2.3	1.2	0.7	0.46	0.19	0.67	0.5	---
S-29.5-SV17	29.5	06/04/15	<0.51	<0.0052	<0.0052	<0.0052	---	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.13	ND
S-5-SV18	5	06/04/15	<0.48	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND
S-10-SV18	10	06/04/15	<0.52	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND
S-15-SV18	15	06/04/15	<0.49	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.13	ND
S-22-SV18	22	06/04/15	<0.50	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-27.5-SV18	27.5	06/04/15	<0.49	<0.0052	<0.0052	<0.0052	---	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.13	ND
S-5-SV19	5	06/04/15	<0.50	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.13	ND
S-10-SV19	10	06/04/15	<0.50	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-15-SV19	15	06/04/15	<0.50	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-17.5-SV19	17.5	06/04/15	<0.48	<0.0052	<0.0052	<0.0052	---	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.13	ND
S-25-SV19	25	06/04/15	<0.53	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-27.5-SV19	27.5	06/04/15	<0.51	<0.0048	<0.0048	<0.0048	---	<0.048	<0.0048	<0.0048	<0.0048	<0.0048	<0.12	ND
S-5-SV20	5	06/04/15	<0.50	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-9-SV20	9	06/04/15	<0.52	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND
S-14-SV20	14	06/04/15	<0.53	<0.0053	<0.0053	<0.0053	---	<0.053	<0.0053	<0.0053	<0.0053	<0.0053	<0.13	ND
S-20-SV20	20	06/04/15	<0.51	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND
S-25-SV20	25	06/04/15	1.0a	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-5.5-SV21	5.5	06/05/15	<0.49	<0.0052	<0.0052	<0.0052	---	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.13	ND
S-10-SV21	10	06/05/15	<0.49	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND
S-15-SV21	15	06/05/15	<0.51	<0.0052	<0.0052	<0.0052	---	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.13	ND
S-23.5-SV21	23.5	06/05/15	<0.51	<0.0052	<0.0052	<0.0052	---	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.13	ND
S-5-SV22	5	06/04/15	<0.50	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-10-SV22	10	06/04/15	<0.49	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-15-SV22	15	06/04/15	<0.51	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-20-SV22	20	06/04/15	<0.51	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND
S-27.5-SV22	27.5	06/04/15	<0.48	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND
S-4.5-SV23	4.5	06/05/15	<0.51	<0.0053	<0.0053	<0.0053	---	<0.053	<0.0053	<0.0053	0.083	<0.0053	<0.13	ND
S-10-SV23	10	06/05/15	<0.49	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.13	ND
S-15-SV23	15	06/05/15	<0.53	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-23-SV23	23	06/05/15	<0.53	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND

TABLE 2
SELECT SOIL ANALYTICAL RESULTS, DETECTED CONCENTRATIONS

Dry Clean 580
 3735 East Castro Valley Boulevard
 Castro Valley, California
 (Page 4 of 4)

Sampling ID	Sampling Depth	Sampling Date	EPA 8015B	EPA 8260B										
			TPHg (mg/kg)	Ethyl-benzene (mg/kg)	o-Xylenes (mg/kg)	pm-Xylenes (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	Tetrachloroethene (mg/kg)	Trichloroethene (mg/kg)	c-1,2-dichloroethene (mg/kg)	t-1,2-dichloroethene (mg/kg)	Acetone (mg/kg)	Additional VOCs (mg/kg)
Environmental Screening Levels, Commercial/Industrial Soil where Groundwater is a Potential Drinking Water Source (December 2013)														
Shallow (≤10 feet bgs), Table A-2			500	3.3	2.3b	2.3b	2.3	1.2	0.7	0.46	0.19	0.67	0.5	---
Deep (>10 feet bgs), Table C-2			770	3.3	2.3b	2.3b	2.3	1.2	0.7	0.46	0.19	0.67	0.5	---
S-5-SV24	5	06/05/15	<0.50	<0.0053	<0.0053	<0.0053	---	<0.053	<0.0053	<0.0053	<0.0053	<0.0053	<0.13	ND
S-10-SV24	10	06/05/15	<0.50	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-15-SV24	15	06/05/15	<0.50	<0.0049	<0.0049	<0.0049	---	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.12	ND
S-20-SV24	20	06/05/15	<0.52	<0.0051	<0.0051	<0.0051	---	<0.051	<0.0051	<0.0051	<0.0051	<0.0051	<0.13	ND
S-25-SV24	25	06/05/15	<0.48	<0.0050	<0.0050	<0.0050	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.12	ND
S-27.5-SV24	27.5	06/05/15	<0.49	<0.0052	<0.0052	<0.0052	---	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.13	ND

Notes:

- TPHg = Total petroleum hydrocarbons as gasoline.
- VOCs = Volatile organic compounds.
- mg/kg = Milligrams per kilogram.
- ND = Not detected at or above the laboratory reporting limit.
- < = Less than the stated laboratory reporting limit.
- = Not analyzed.
- a = Chromatographic pattern does not match that of the specified standard.
- b = Screening level for total xylenes.

TABLE 3A
SOIL PROPERTIES
 Dry Clean 580
 3735 East Castro Valley Boulevard
 Castro Valley, California
 (Page 1 of 1)

Sample Name	Sample Date	Sample Orientation	Moisture Content (% weight) (cm ³ /cm ³)		Density		Porosity				Total Pore Fluid Saturations (%Pv)	Organic Carbon		Permeability to Air		Permeability To Water (millidarcy)	Hydraulic Conductivity (cm/s)
					Dry Bulk (g/cm ³)	Grain (g/cm ³)	Total (cm ³ /cm ³)	Air Filled (cm ³ /cm ³)	Water Filled (cm ³ /cm ³)	Effective (cm ³ /cm ³)		Total (mg/kg)	Fraction (g/g)	Effective (millidarcy)	Specific (millidarcy)		
S-6-Shelby23	06/05/15	Vertical	16.66	0.288	1.73	2.67	0.352	0.064	0.288	0.014	81.8	7,600	7.60E-03	6.27	3,689	0.0103	1.02E-08
S-6-Shelby24	06/05/15	Vertical	11.79	0.237	2.01	2.65	0.242	0.005	0.237	0.058	97.9	9,100	9.10E-03	85.0	3,281	0.192	1.90E-07

Notes:

- Particle Size Distribution = Grain size distribution analyzed using ASTM D4464.
- USCS/Plasticity Chart Symbol = Unified Soil Classification System chart symbol analyzed using ATM D4318.
- USCS Classification = Unified Soil Classification System classification analyzed using ASTM D2487.
- USDA/SCS Soil Texture Scheme = United States Department of Agriculture/Soil Conservation Service soil texture scheme analyzed using USDA.
- Atterberg Limits = Atterberg limits analyzed using ASTM D4318.
- Moisture Content = Moisture content analyzed using ASTM D2216.
- Dry Bulk Density = Dry density analyzed using API RP40.
- Grain Density = Grain density analyzed using API RP40.
- Total Porosity = Total porosity analyzed using API RP40.
- Air Filled Porosity = Air filled porosity analyzed using API RP40.
- Water Filled Porosity = Water filled porosity analyzed using API RP40.
- Effective Porosity = Effective porosity analyzed using modified ASTM D425.
- Total Pore Fluid Saturations = Total pore fluid saturations analyzed using API RP40.
- Total Organic Carbon = Total organic carbon analyzed using Walkley-Black.
- Fraction Organic Carbon = Fraction organic carbon analyzed using Walkley-Black.
- Effective Permiability to Air = Effective permiability to air analyzed using API RP40.
- Specific Permiability to Air = Specific permiability to air analyzed using API RP40.
- Permiability to Water = Effective permiability to water analyzed using API RP40.
- Hydraulic Conductivity = Saturated hydraulic conductivity analyzed using EPA Method 9100.
- feet bgs = Feet below ground surface.
- mm = Millimeter.
- %Pv = Percent per pore volume.
- g/cm³ = Grams per cubic centimeter.
- cm³/cm³ = Cubic centimeter per cubic centimeter.
- cm² = Centimeters squared.
- cm/s = Centimeters per second.
- mg/kg = Milligrams per kilogram.
- g/g = Grams per gram.
- = Not available/Not applicable.

TABLE 3B
ADDITIONAL SOIL PROPERTIES
 Dry Clean 580
 3735 East Castro Valley Boulevard
 Castro Valley, California
 (Page 1 of 1)

Sample Name	Sample Date	Atterberg Limits			USCS Chart Symbol	USCS Classification	USDA/SCS Soil Texture Scheme	Grain Size Description	Medium Grain Size	Component Percentages								Silt and Clay
		Liquid Limit	Plastic Limit	Plasticity Index						Sand Size							Clay	
										Gravel	Vcoarse	Course	Medium	Fine	Vfine	Silt		
S-6-Shelby23	06/05/15	37	17	20	CL	Lean Clay with Sand	Loam	Silt	0.019	0.00	0.00	0.00	3.62	10.92	13.78	48.77	22.90	71.7
S-6-Shelby24	06/05/15	23	15	8	CL	Sandy Lean Clay	Loam	Silt	0.033	0.00	0.00	1.36	8.97	12.43	15.26	43.51	18.46	62.0

Particle Size Distribution	=	Grain size distribution analyzed using ASTM D4464.
USCS/Plasticity Chart Symbol	=	Unified Soil Classification System chart symbol analyzed using ATM D4318.
USCS Classification	=	Unified Soil Classification System classification analyzed using ASTM D2487.
USDA/SCS Soil Texture Scheme	=	United States Department of Agriculture/Soil Conservation Service soil texture scheme analyzed using USDA.
Atterberg Limits	=	Atterberg limits analyzed using ASTM D4318.
Moisture Content	=	Moisture content analyzed using ASTM D2216.
Dry Bulk Density	=	Dry density analyzed using API RP40.
Grain Density	=	Grain density analyzed using API RP40.
Total Porosity	=	Total porosity analyzed using API RP40.
Air Filled Porosity	=	Air filled porosity analyzed using API RP40.
Water Filled Porosity	=	Water filled porosity analyzed using API RP40.
Effective Porosity	=	Effective porosity analyzed using modified ASTM D425.
Total Pore Fluid Saturations	=	Total pore fluid saturations analyzed using API RP40.
Total Organic Carbon	=	Total organic carbon analyzed using Walkley-Black.
Fraction Organic Carbon	=	Fraction organic carbon analyzed using Walkley-Black.
Effective Permiability to Air	=	Effective permiability to air analyzed using API RP40.
Specific Permiability to Air	=	Specific permiability to air analyzed using API RP40.
Permiability to Water	=	Effective permiability to water analyzed using API RP40.
Hydraulic Conductivity	=	Saturated hydraulic conductivity analyzed using EPA Method 9100.
feet bgs	=	Feet below ground surface.
mm	=	Millimeter.
%Pv	=	Percent per pore volume.
g/cm ³	=	Grams per cubic centimeter.
cm ³ /cm ³	=	Cubic centimeter per cubic centimeter.
cm ²	=	Centimeters squared.
cm/s	=	Centimeters per second.
mg/kg	=	Milligrams per kilogram.
g/g	=	Grams per gram.
---	=	Not available/Not applicable.

TABLE 4A
SELECT SOIL VAPOR ANALYTICAL RESULTS, DETECTED CONCENTRATIONS
 Dry Clean 580
 3735 East Castro Valley Boulevard
 Castro Valley, California
 (Page 1 of 2)

Sampling ID	Sampling Date	ASTM D-1946				GC/MS	EPA TO-15											
		Helium (%V)	Methane (%V)	CO ₂ (%V)	O ₂ + Ar (%V)	TPHg (µg/m ³)	MTBE (µg/m ³)	B (µg/m ³)	T (µg/m ³)	E (µg/m ³)	o-X (µg/m ³)	pm-X (µg/m ³)	1,2-DCA (µg/m ³)	TBA (µg/m ³)	PCE (µg/m ³)	TCE (µg/m ³)	Ethanol (µg/m ³)	
Environmental Screening Levels, Shallow Soil Gas, Table E-2 (December 2013)																		
Commercial/Industrial		---	---	---	---	2,500,000	47,000	420	1,300,000	4,900	440,000d	440,000d	580	---	2,100	3,000	---	
Phase II Subsurface Investigation																		
SG-1	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---
SG-2	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---
SG-3	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---
SG-4	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5,800	<1,000	---
SG-4	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4,000	<1,000	---
SG-5	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	65,000	<1,000	---
SG-5	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	119,700	6,800	---
SG-5	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---
SG-6	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1,700	<1,000	---
SG-7	11/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---
SG-8	11/12/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	29,700	2,100	---
SG-8	11/12/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30,300	1,400	---
SG-8 Dup	11/12/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	24,600	1,100	---
SG-9	11/12/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	33,500	<1,000	---
SG-10	11/12/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14,000	<1,000	---
SG-10	11/12/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4,700	<1,000	---
SG-11	11/12/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	105,900	1,400	---
Data Gap Assessment																		
SV-1	01/06/14	---	---	---	---	---	---	<35	<200	<100	<100	<200	<45	---	9,500	600	---	
SV-2	01/06/14	---	---	---	---	---	---	110	<200	<100	<100	<200	<45	---	190	<100	---	
SV-3	01/06/14	---	---	---	---	---	---	170	<200	<100	<100	<200	<45	---	<100	<100	---	
SV-4	01/07/14	---	---	---	---	---	---	72	<200	<100	<100	<200	<45	---	<100	<100	---	
SV-5	01/07/14	---	---	---	---	---	---	56	<200	<100	<100	<200	<45	---	<100	450	---	
SV-6	01/07/14	---	---	---	---	---	---	83	<200	<100	<100	<200	<45	---	1,800	1,400	---	
SV-7	01/07/14	---	---	---	---	---	---	<35	<200	<100	<100	<200	<45	---	3,600	<100	---	
SV-8	01/07/14	---	---	---	---	---	---	<35	<200	<100	<100	<200	<45	---	<100	<100	---	
SV-9	01/17/14	---	---	---	---	---	---	170	<200	190	160	560	<45	---	160	<100	---	
SV-10	01/17/14	---	---	---	---	---	---	170	<200	270	270	910	<45	---	<100	<100	---	
SV-11	01/17/14	---	---	---	---	---	---	91	<200	<100	<100	270	<45	---	2,200	<100	---	
SV-12	01/17/14	---	---	---	---	---	---	290	<200	<100	<100	<200	<45	---	<100	<100	---	
SV-13	01/17/14	---	---	---	---	---	---	400	280	<100	<100	<200	<45	---	<100	<100	---	
SV-14	01/17/14	---	---	---	---	---	---	150	<200	<100	<100	<200	<45	---	<100	<100	---	
SV-15	01/17/14	---	---	---	---	---	---	150	<200	<100	<100	<200	<45	---	<100	<100	---	

TABLE 4A
SELECT SOIL VAPOR ANALYTICAL RESULTS, DETECTED CONCENTRATIONS
 Dry Clean 580
 3735 East Castro Valley Boulevard
 Castro Valley, California
 (Page 2 of 2)

Sampling ID	Sampling Date	ASTM D-1946				GC/MS	EPA TO-15										
		Helium (%V)	Methane (%V)	CO ₂ (%V)	O ₂ + Ar (%V)	TPHg (µg/m ³)	MTBE (µg/m ³)	B (µg/m ³)	T (µg/m ³)	E (µg/m ³)	o-X (µg/m ³)	pm-X (µg/m ³)	1,2-DCA (µg/m ³)	TBA (µg/m ³)	PCE (µg/m ³)	TCE (µg/m ³)	Ethanol (µg/m ³)
Environmental Screening Levels, Shallow Soil Gas, Table E-2 (December 2013)																	
Commercial/Industrial		---	---	---	---	2,500,000	47,000	420	1,300,000	4,900	440,000d	440,000d	580	---	2,100	3,000	---
Soil Vapor Well Installation																	
SV-16A	06/25/15	0.0687	0.25	2.6	3.8	15,000	<11	74	63	13	12	36	<3.0	<9.1	<5.1	<4.0	<14
SV-16B	06/25/15	0.0215	0.41	21	2.4	38,000	<9.4	56	40	12	9.0	22	3.0	<7.9	<4.4	<3.5	<12
SV-17A	06/25/15	0.0286	0.026	0.75	8.7	4,500	<7.2	12	18	4.0	4.4	13	<2.0	43	<3.4	<2.7	<9.4
SV-17B	06/25/15	0.0301	0.36	17	4.8	38,000	14	63	34	13	12	24	<2.7	160	<4.6	<3.6	<13
SV-18A	06/25/15	0.0137	0.026	0.69	8.0	5,500	<8.7	6.1	8.3	3.7	17	29	<2.4	22	<4.1	<3.2	<11
SV-18B	06/25/15	0.0219	0.38	23	6.4	14,000	<7.6	65	17	11	9.3	21	<2.1	<6.4	<3.6	<2.8	<10
SV-19A	06/25/15	0.0717	0.0043	0.14	8.8	8400	<9.7	270	15	130	3.8	<12	<2.7	24	25	<3.6	<13
SV-19B	06/25/15	0.0355	0.018	20	8.1	5,900	<7.2	25	11	<2.2	<2.2	<8.7	<2.0	74	<3.4	<2.7	14
SV-20A	06/25/15	0.0241	0.0039	4.6	4.1	8,800	<10	11	12	3.5	<3.1	<12	<2.9	25	<4.8	<3.8	<13
SV-20B	06/25/15	0.0297	0.041	11	7.6	25,000	30	37	27	13	10	18	<2.6	180	<4.3	<3.4	12
SV-21A	06/26/15	0.0316	0.61	3.8	5.0	29,000	<10	69	33	14	9.5	19	<2.9	<8.5	420	7.9	<13
SV-21B	06/26/15	0.0220	0.13	28	3.7	21,000	<9.7	63	25	23	23	56	<2.7	<8.1	140	4.3	<13
SV-22A	06/26/15	0.0279	0.82	1.1	4.8	21,000	<10	46	33	8.7	7.8	15	<2.9	18	<4.8	<3.8	<13
SV-22B	06/26/15	0.0187	0.55	56	2.2	16,000	<8.1	42	9.3	10	7.8	16	<2.3	55	<3.8	<3.0	11
SV-23A	06/26/15	0.0159	0.45	0.85	13	89,000	<29	90	37	<8.7	<8.7	<35	<8.1	<24	20,000	40,000	<38
SV-23A Dup	06/26/15	0.0139	0.49	1.1	10	86,000	<29	110	34	14	<8.7	<35	<8.1	<24	14,000	33,000	<38
SV-23B	06/26/15	0.0140	0.41	28	2.8	47,000	<8.8	54	82	21	16	27	<2.5	<7.4	17,000	530	<11
SV-24A	06/26/15	0.0169	0.025	2.1	7.9	14,000	<9.2	18	8.5	<2.8	<2.8	<11	<2.6	<7.7	3,000	210	<12
SV-24B	06/26/15	0.0186	0.19	17	8.2	21,000	<8.6	40	26	12	8.6	16	<2.4	30	7.8	11	12

Notes:

- TPHg = Total petroleum hydrocarbons as gasoline.
- MTBE = Methyl tertiary butyl ether.
- BTEX = Benzene, ethylbenzene, toluene, and total xylenes.
- 1,2-DCA = 1,2-dichloroethane.
- TBA = Tertiary butyl alcohol.
- PCE = Tetrachloroethene.
- TCE = Trichloroethene.
- VOCs = Volatile organic compounds.
- CO₂ = Carbon dioxide.
- O₂ + Ar = Oxygen plus argon.
- µg/m³ = Micrograms per cubic meter.
- %V = Percent by volume.
- ND = Not detected at or above the laboratory reporting limit.
- < = Less than the stated laboratory reporting limit.
- a = Chloroethane.
- b = 4-methyl-2-pentanone.
- c = 4-ethyltoluene.
- d = ESL for total xylenes.
- e = 1,1-dichloroethene.

TABLE 4B
ADDITIONAL SELECT SOIL VAPOR ANALYTICAL RESULTS, DETECTED CONCENTRATIONS
 Dry Clean 580
 3735 East Castro Valley Boulevard
 Castro Valley, California
 (Page 1 of 2)

Sampling ID	Sampling Date	EPA TO-17		EPA TO-15 (EPA 8010 in 1997)														
		Naphthalene (µg/m ³)	Naphthalene (µg/m ³)	Acetone (µg/m ³)	Bromo-dichloro-methane (µg/m ³)	2-Butanone (µg/m ³)	Carbon Disulfide (µg/m ³)	Chloro-benzene (µg/m ³)	Chloro-methane (µg/m ³)	Chloro-form (µg/m ³)	1,1-dichloro-ethane (µg/m ³)	c-1,2-dichloro-ethene (µg/m ³)	t-1,2-dichloro-ethene (µg/m ³)	Dichloro-difluoro-methane (µg/m ³)	1,2,4-trimethyl-benzene (µg/m ³)	1,3,5-trimethyl-benzene (µg/m ³)	Vinyl Chloride (µg/m ³)	Additional VOCs (µg/m ³)
Environmental Screening Levels, Shallow Soil Gas, Table E-2 (December 2013)																		
Commercial/Industrial		360	360	140,000,000	330	---	---	4,400,000	390,000	2,300	7,700	31,000	260,000	---	---	---	160	---
Phase II Subsurface Investigation																		
SG-1	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-2	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-3	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-4	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-4	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-5	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-5	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-5	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-6	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-7	11/11/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-8	11/12/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-8	11/12/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-8 Dup	11/12/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-9	11/12/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-10	11/12/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-10	11/12/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
SG-11	11/12/97	---	---	---	---	---	---	---	---	---	---	<1,000	<1,000	---	---	---	<1,000	ND
Data Gap Assessment																		
SV-1	01/06/14	---	---	---	---	---	---	---	---	<100	280	7,400	330	<100	---	---	190	ND
SV-2	01/06/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-3	01/06/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-4	01/07/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-5	01/07/14	---	---	---	---	---	---	---	---	<100	<100	650	<100	<100	---	---	110	ND
SV-6	01/07/14	---	---	---	---	---	---	---	---	<100	110	960	<100	<100	---	---	110	ND
SV-7	01/07/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-8	01/07/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-9	01/17/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-10	01/17/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-11	01/17/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-12	01/17/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	43	ND
SV-13	01/17/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-14	01/17/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND
SV-15	01/17/14	---	---	---	---	---	---	---	---	<100	<100	<100	<100	<100	---	---	<13	ND

**TABLE 4B
ADDITIONAL SELECT SOIL VAPOR ANALYTICAL RESULTS, DETECTED CONCENTRATIONS**

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 2 of 2)

Sampling ID	Sampling Date	EPA TO-17		EPA TO-15 (EPA 8010 in 1997)														
		Naphthalene (µg/m ³)	Naphthalene (µg/m ³)	Acetone (µg/m ³)	Bromo-dichloro-methane (µg/m ³)	2-Butanone (µg/m ³)	Carbon Disulfide (µg/m ³)	Chloro-benzene (µg/m ³)	Chloro-methane (µg/m ³)	Chloro-form (µg/m ³)	1,1-dichloro-ethane (µg/m ³)	c-1,2-dichloro-ethene (µg/m ³)	t-1,2-dichloro-ethene (µg/m ³)	Dichloro-difluoro-methane (µg/m ³)	1,2,4-trimethyl-benzene (µg/m ³)	1,3,5-trimethyl-benzene (µg/m ³)	Vinyl Chloride (µg/m ³)	Additional VOCs (µg/m ³)
Environmental Screening Levels, Shallow Soil Gas, Table E-2 (December 2013)																		
Commercial/Industrial		360	360	140,000,000	330	---	---	4,400,000	390,000	2,300	7,700	31,000	260,000	---	---	---	160	---
Soil Vapor Well Installation																		
SV-16A	06/25/15	<20	<39	50	<5.0	<6.6	580	4.4	<1.5	16	<3.0	<3.0	<3.0	5.3	<11	<3.7	<1.9	ND
SV-16B	06/25/15	<20	<34	<6.2	<4.4	<5.8	690	4.0	<1.3	11	<2.6	<2.6	<2.6	<3.2	<9.6	<3.2	<1.7	ND
SV-17A	06/25/15	<20	<26	56	4.0	<4.4	55	3.6	3.2	12	<2.0	<2.0	<2.0	3.3	<7.4	<2.5	<1.3	ND
SV-17B	06/25/15	<20	<35	180	<4.5	8.2	510	8.0	2.3	3.9	<2.7	<2.7	<2.7	6.6	13	4.7	<1.7	ND
SV-18A	06/25/15	<20	<32	<5.7	15	<5.3	170	5.2	2.1	45	<2.4	<2.4	<2.4	4.8	24	11	<1.5	4.8c
SV-18B	06/25/15	<20	<28	<5.0	<3.6	<4.7	380	10	1.2	5.1	<2.1	<2.1	<2.1	<2.6	<7.8	<2.6	<1.4	ND
SV-19A	06/25/15	<20	<35	<6.4	22	9.2	190	4.6	3.3	57	<2.7	<2.7	<2.7	5.1	<9.9	<3.3	<1.7	ND
SV-19B	06/25/15	<20	<26	150	7.4	5.3	710	7.9	<1.0	11	<2.0	<2.0	<2.0	<2.5	<7.4	<2.5	<1.3	ND
SV-20A	06/25/15	<20	<37	<6.7	6.0	10	100	5.0	3.2	19	<2.9	<2.8	<2.8	<3.5	<10	<3.5	<1.8	ND
SV-20B	06/25/15	<20	<33	220	<4.3	14	1,100	4.8	1.9	7.7	<2.6	<2.5	<2.5	<3.1	<9.4	3.1	<1.6	ND
SV-21A	06/25/15	<20	<37	<6.7	<4.7	7.6	350	10	3.2	16	<2.9	<2.8	<2.8	3.8	<10	<3.5	2.5	ND
SV-21B	06/25/15	<20	<35	150	<4.5	13	480	38	<1.4	4.6	<2.7	<2.7	<2.7	<3.3	10	3.8	<1.7	ND
SV-22A	06/25/15	410	<37	<6.7	<4.7	8.8	82	<3.2	2.0	29	<2.9	<2.8	<2.8	4.7	<10	<3.5	<1.8	9.9b
SV-22B	06/25/15	<20	<30	100	<3.8	9.9	250	<2.6	<1.2	<2.8	<2.3	<2.2	<2.2	<2.8	<8.3	<2.8	<1.4	20b
SV-23A	06/25/15	---	<100	<19	<13	<18	600	<9.2	4.7	55	3,700	53,000	4,700	<9.9	<29	<9.8	1,700	ND
SV-23A Dup	06/25/15	---	<100	<19	<13	<18	910	<9.2	6.5	67	<8.1	47,000	4,300	<9.9	<29	<9.8	1,300	2,500e
SV-23B	06/25/15	<20	<32	<5.8	<4.1	<5.4	820	5.0	2.5	6.8	<2.5	1,000	86	<3.0	61	17	37	2.9a, 11c, 80e
SV-24A	06/25/15	<20	<33	<6.0	8.3	<5.6	410	4.7	5.9	51	<2.6	270	61	3.2	<9.4	<3.1	23	19e
SV-24B	06/25/15	<20	<31	<5.7	<4.0	19	2,400	11	3.8	3.9	<2.4	23	4.1	<2.9	<8.8	3.1	<1.5	ND

- Notes:
- TPHg = Total petroleum hydrocarbons as gasoline.
 - MTBE = Methyl tertiary butyl ether.
 - BTEX = Benzene, ethylbenzene, toluene, and total xylenes.
 - 1,2-DCA = 1,2-dichloroethane.
 - TBA = Tertiary butyl alcohol.
 - PCE = Tetrachloroethene.
 - TCE = Trichloroethene.
 - VOCs = Volatile organic compounds.
 - CO₂ = Carbon dioxide.
 - O₂ + Ar = Oxygen plus argon.
 - µg/m³ = Micrograms per cubic meter.
 - %V = Percent by volume.
 - ND = Not detected at or above the laboratory reporting limit.
 - < = Less than the stated laboratory reporting limit.
 - a = Chloroethane.
 - b = 4-methyl-2-pentanone.
 - c = 4-ethyltoluene.
 - d = ESL for total xylenes.
 - e = 1,1-dichloroethene.

APPENDIX A
CORRESPONDENCE

From: Detterman, Karel, Env. Health [<mailto:Karel.Detterman@acgov.org>]

Sent: Wednesday, July 08, 2015 5:10 PM

To: gabe stivala

Cc: 'John Bobbitt'; Roe, Dilan, Env. Health; Matt Herman (matt.herman@cardno.com); Charles Gurney

Subject: RE: RO3097 SCP Program 580 Market Place Shopping Center, East Castro Valley Boulevard, Castro Valley, CA

Hello Gabe:

The report deadline has been extended as follows:

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Karel Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **August 14, 2015 ~~July 15, 2015~~** – Soil and Groundwater Investigation Report
File to be named: RO3097_SWI_R_yyyy-mm-dd

Thank you,

Karel Detterman, PG
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6708
Fax: 510.337.9335
Email: karel.detterman@acgov.org

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

From: gabe stivala [<mailto:gabe.stivala@cardno.com>]

Sent: Tuesday, July 07, 2015 9:47 AM

To: Detterman, Karel, Env. Health

Cc: 'John Bobbitt'; Roe, Dilan, Env. Health; Matt Herman (matt.herman@cardno.com); Charles Gurney

Subject: RE: RO3097 SCP Program 580 Market Place Shopping Center, East Castro Valley Boulevard, Castro Valley, CA

Hi Karel,

We have completed the field work for the external soil and soil gas assessment, however we will not have our soil vapor analytical results from the laboratory until July 15, which is the ACEH established due date for the report. As such, we are requesting an extension for the submittal of the final report to August 14, 2015. Please let me know if this is acceptable.

Best regards,

Gabe Stivala, P.G

SENIOR PROJECT MANAGER/GEOLOGIST

ENGINEERING & ENVIRONMENTAL SERVICES DIVISION

CARDNO

Direct (+1) 916-386-3870 **Mobile** (+1) 925-223-7123 **Fax** (+1) 916-923-6251

Address 701 University Avenue Suite 200, Sacramento, CA 95825

Email gabe.stivala@cardno.com **Web** www.cardno.com

This email and its attachments may contain confidential and/or privileged information for the sole use of the intended recipient(s). All electronically supplied data must be checked against an applicable hardcopy version which shall be the only document which Cardno warrants accuracy. If you are not the intended recipient, any use, distribution or copying of the information contained in this email and its attachments is strictly prohibited. If you have received this email in error, please email the sender by replying to this message and immediately delete and destroy any copies of this email and any attachments. The views or opinions expressed are the author's own and may not reflect the views or opinions of Cardno.

From: Detterman, Karel, Env. Health [<mailto:Karel.Detterman@acgov.org>]

Sent: Thursday, May 14, 2015 3:04 PM

To: Charles Gurney

Cc: 'John Bobbitt'; Roe, Dilan, Env. Health; gabe stivala

Subject: RE: RO3097 SCP Program 580 Market Place Shopping Center, East Castro Valley Boulevard, Castro Valley, CA

Hello Chuck:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Response to Comments and Work Plan Addendum* (Addendum) dated April 22, 2015, prepared and submitted on your behalf by Cardno ATC. The Addendum was submitted in response to a conference call with the Cardno representatives on April 10, 2015. Thank you for submitting the Addendum.

Based on ACEH staff review of the work plan, the Addendum is approved for implementation. Submittal of a revised work plan addendum is not required unless an alternate scope of work outside that described in the work plan or these technical comments is proposed. We request that you perform the proposed work and send us the report described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: karel.detterman@acgov.org) prior to the start of field activities.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Karel Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **July 15, 2015** – Soil and Groundwater Investigation Report
File to be named: RO3097_SWI_R_yyyy-mm-dd

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please send me an e-mail message at karel.detterman@acgov.org or call me at (510) 567-6708.

Karel Detterman, PG
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6708
Fax: 510.337.9335
Email: karel.detterman@acgov.org

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

APPENDIX B
FIELD PROTOCOLS

Soil Vapor Sampling Well Installation and Sampling Field Protocol

Preliminary Activities

Prior to the onset of field activities at the site, Cardno obtains the appropriate permit(s) from the governing agency(s). Advance notification is made as required by the agency(s) prior to the start of work. Cardno marks the borehole locations and contacts the local one call utility locating service at least 48 hours prior to the start of work to mark buried utilities. Borehole locations may also be checked for buried utilities by a private geophysical surveyor. Prior to drilling, the borehole location is cleared in accordance with the client's procedures. Fieldwork is conducted under the advisement of a registered professional geologist and in accordance with an updated site-specific safety plan prepared for the project, which is available at the job site during field activities.

Well Construction

The borehole is advanced to the desired depth using either a direct-push rig, hand auger, or air vacuum rig. Lithologic conditions are recorded on a boring log during borehole advancement, and select soil matrix sampling may be conducted based on soil characteristics.

Each soil vapor sampling (SVS) well is constructed using inert screen material attached to 1/8- to 1/4-inch outer diameter inert tubing. A gas-tight vacuum fitting or valve is attached to the top of each length of tubing using a female compression fitting. Each screen is set within a minimum of a 12-inch thick appropriately sized sand pack, with a minimum of 3 inches of sand pack above the top of the screen. A minimum of 4 inches of dry granular bentonite is set above each screen and associated sand pack. In SVS wells with multiple and separate casings and screens, the annular space between the top of the dry granular bentonite above the deep screen and the bottom of the sand pack associated with the shallow screen is sealed with a minimum of 18 inches of hydrated bentonite. The remainder of the annular space of the well is sealed with hydrated bentonite to 1 foot below ground surface. Wellheads are finished with traffic-rated well boxes set in concrete flush with the surrounding grade. No glues, chemical cements, or solvents are used in well construction.

A boring log is completed with the construction details for each well, including the materials of construction, depth of the borehole, screen length, and annular seal thickness.

Soil Vapor Sampling

Samples are collected using a soil vapor purging and sampling manifold consisting of a flow regulator, vacuum gauges, vacuum pump, shroud, and laboratory-prepared, gas-tight, opaque containers such as Summa™ canisters. Samples may also be collected using a syringe and analyzed by a mobile laboratory. Prior to use, Summa™ canisters are checked to ensure they are under the laboratory induced vacuum between 31 and 25 inches of mercury (in. Hg). New inert tubing is used to purge and sample each well. Prior to purging and sampling each SVS well, the sampling manifold is connected to the gas-tight vacuum fitting or valve at the wellhead, and the downstream tubing and fittings are vacuum tested at approximately 24 to 28 in. Hg. Purging and sampling are conducted only on SVS wells when the tubing and fittings hold the applied vacuum for 5 minutes per vacuum gauge reading.

When required, Cardno conducts a purge volume versus constituent concentration test on at least one SVS well prior to purging and sampling activities. The purge volume test well is selected based on the location of the anticipated source of chemical constituents at the site and on the location of anticipated maximum soil vapor concentrations based on lithologic conditions. If the SVS well has been in place for more than 1 week, it is assumed that soil vapor in the sand pack has equilibrated with the surrounding soil, and only the screen and tubing volumes are included in the purge volume calculation. If the SVS well has been in place for less than 1 week, the volume of the sand pack around the screen is included in the purge volume calculation. A photo-ionization detector (PID) or on-site mobile laboratory is used to evaluate concentrations of chemical constituents in the vapor stream after 1, 3, and 10 volumes of vapor have been purged from the SVS well. Purging is conducted at a rate of 100 to 200

milliliters per minute (ml/min). The purge volume exhibiting the highest concentration is the volume of vapor purged from each SVS well prior to sampling. If the three separate purge volumes produce equal concentrations a default of 3 purge volumes is extracted prior to sampling.

Prior to sampling, a helium leak test is performed at each SVS well, including a summa canister and its fittings, to check for leaks in the SVS annulus. To assess the potential for leaks in the SVS well annulus, a shroud is placed over the SVS well and summa canister and the shroud is filled with a measured amount of helium. Helium screening is performed in the field by drawing soil gas into a Tedlar bag via a lung-box and screening the contents of the Tedlar bag with a helium meter. The concentration of helium in the sample divided by the concentration of helium in the shroud provides a measure of the proportion of the sample attributable to leakage. A leak that comprises less than 5% of the sample is insignificant. Helium screening is also performed using laboratory analysis of the contents of the summa canister collected under the shroud. Sampling is conducted at approximately the same rate of purging, at 100 to 200 ml/min. Soil vapor samples are submitted under chain-of-custody protocol for the specified laboratory analyses.

At a minimum, weather conditions (temperature, barometric pressure and precipitation), the sampling flow rate, the purge volume, the helium leak detection percentage results, the sample canister identification number, the method of sample collection, and the vacuum of the sampling canister at the start and end of sample collection (if applicable) are recorded on a log for each SVS well purged and sampled.

Decontamination Procedures

If soil samples are collected, Cardno or the contracted driller decontaminates the soil sampling equipment between each sampling interval using a non-phosphate solution, followed by a minimum of two tap water rinses. De-ionized water may be used for the final rinse. Downhole drilling equipment is steam-cleaned or triple-rinsed prior to advancing each borehole.

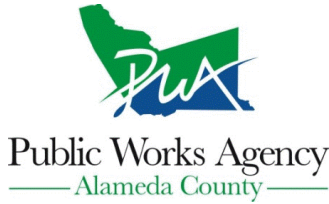
Waste Treatment and Disposal

Soil cuttings generated from the well installation are stored on site in labeled, Department of Transportation-approved, 55-gallon drums or other appropriate storage container. The soil is removed from the site and transported under manifest to a client- and regulatory-approved facility for recycling or disposal. Decontamination water is stored on site in labeled, regulatory-approved storage containers, and is subsequently transported under manifest to a client- and regulatory-approved facility for disposal or treated with a permitted mobile or fixed-base carbon treatment system.

APPENDIX C

PERMITS

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 05/28/2015 By jamesy

Permit Numbers: W2015-0456
Permits Valid from 06/03/2015 to 06/03/2015

Application Id: 1432765171430
Site Location: 3735-4065 East Castro Valley Blvd. 580 Market Place Shopping Center.
Project Start Date: 06/03/2015
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site: Castro Valley
Completion Date: 06/03/2015

Applicant: Cardno ERI - Matthew Herman **Phone:** 707-766-2027
 601 North McDowell Blvd., Petaluma, CA 94954
Property Owner: Weingarten Realty Investors **Phone:** 713-866-6855
 2600 Citadel Plaza Dr. #200, Houston, TX 77008
Client: Weingarten Realty Investors **Phone:** 713-866-6855
 2600 Citadel Plaza Dr. #200, Houston, TX 77008
Contact: Matthew Herman **Phone:** 707-766-2027
Cell: 707-338-8010

Total Due: \$265.00
Receipt Number: WR2015-0264 **Total Amount Paid:** \$265.00
Payer Name : Matt Herman **Paid By: MC** **PAID IN FULL**

Works Requesting Permits:

Well Construction-Vapor monitoring well-Vapor monitoring well - 9 Wells
 Driller: Gregg Drilling & Testing, Inc. - Lic #: 485165 - Method: auger

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2015-0456	05/28/2015	09/01/2015	SV-16	4.00 in.	0.25 in.	4.00 ft	15.00 ft
W2015-0456	05/28/2015	09/01/2015	SV-17	4.00 in.	0.25 in.	4.00 ft	15.00 ft
W2015-0456	05/28/2015	09/01/2015	SV-18	4.00 in.	0.25 in.	4.00 ft	15.00 ft
W2015-0456	05/28/2015	09/01/2015	SV-19	4.00 in.	0.25 in.	4.00 ft	15.00 ft
W2015-0456	05/28/2015	09/01/2015	SV-20	4.00 in.	0.25 in.	4.00 ft	15.00 ft
W2015-0456	05/28/2015	09/01/2015	SV-21	4.00 in.	0.25 in.	4.00 ft	15.00 ft
W2015-0456	05/28/2015	09/01/2015	SV-22	4.00 in.	0.25 in.	4.00 ft	15.00 ft
W2015-0456	05/28/2015	09/01/2015	SV-23	4.00 in.	0.25 in.	4.00 ft	15.00 ft
W2015-0456	05/28/2015	09/01/2015	SV-24	4.00 in.	0.25 in.	4.00 ft	15.00 ft

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
2. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and

Alameda County Public Works Agency - Water Resources Well Permit

all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

3. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

6. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

7. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

8. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

10. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.

Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.

APPENDIX D
BORING LOGS



BORING LOG SV-16

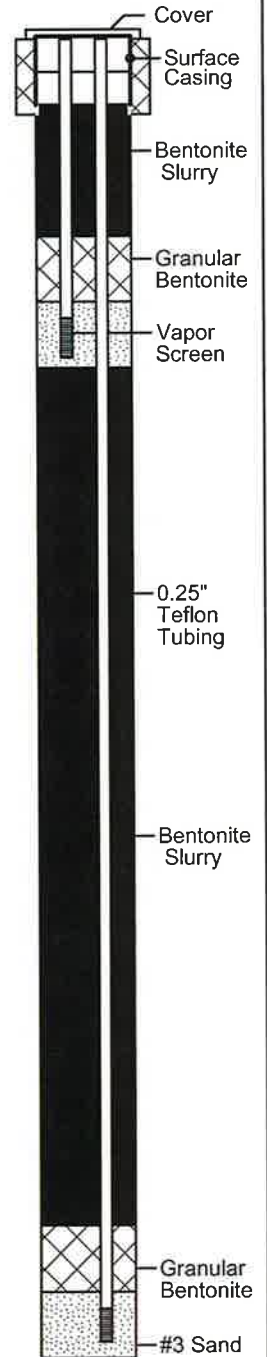
(Page 1 of 2)

Dates Drilled: : 6/3/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.050797
 Location N-S : 37.694549
 Total Depth: : 30' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: : *[Signature]*

Depth (ft)	Blow Count	OVM/IPID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION
						<input checked="" type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input type="checkbox"/> NA <input type="checkbox"/> NA	
0								2" Asphalt. Borehole cleared to 5' bgs using hand tools.
1.7					BR			10" FILL (BASEROCK)
2.6					ML			SILT with Sand: yellow brown, dry, medium plasticity, stiff, fine-grained sand (0,85,15,0)
3.5					CL			Sandy CLAY: mottled dark brown and green, dry, low plasticity, fine- to medium-grained sand (55,0,45,0)
4.1					SC/SC			SAND with Clay and Gravel: yellow brown, dry, medium-grained, poorly graded, subrounded, gravel up to 1" diameter (10,0,75,15)
5					ML			SILT with Sand: dark green brown, damp, low plasticity, dense (5,75,20,0)
5.7					ML			Sandy SILT: dark green and black, dry, stiff, low plasticity, dense, fine- to medium-grained sand (0,70,30,0)
6.2					CL			Sandy CLAY: mottled dark brown and yellow, dry, low plasticity, fine- to medium-grained sand (65,0,35,0)
7.1					ML			SILT with Sand: mottled black and green, dry, low plasticity, fine-grained sand, minor rounded gravel up to 0.25" diameter (0,80,15,5)
7.9					CL			CLAY with Sand: mottled dark gray and green, dry, low plasticity, soft, fine- to medium-grained sand (75,10,25,0)
8.2					ML			SILT: mottled dark yellow brown and green, dry, medium plasticity, stiff, dense, minor fine-grained sand (0,95,5,0)
8.6					SC			Clayey SAND: dark yellow brown, dry, fine- to medium grained, subrounded, poorly graded, iron oxide staining (30,0,70,0)
9.2					ML			SILT with Sand: mottled green and gray, dry, low plasticity, soft, fine-grained sand (10,75,15,0)

Boring1: SV-16A
 Boring2: SV-16B



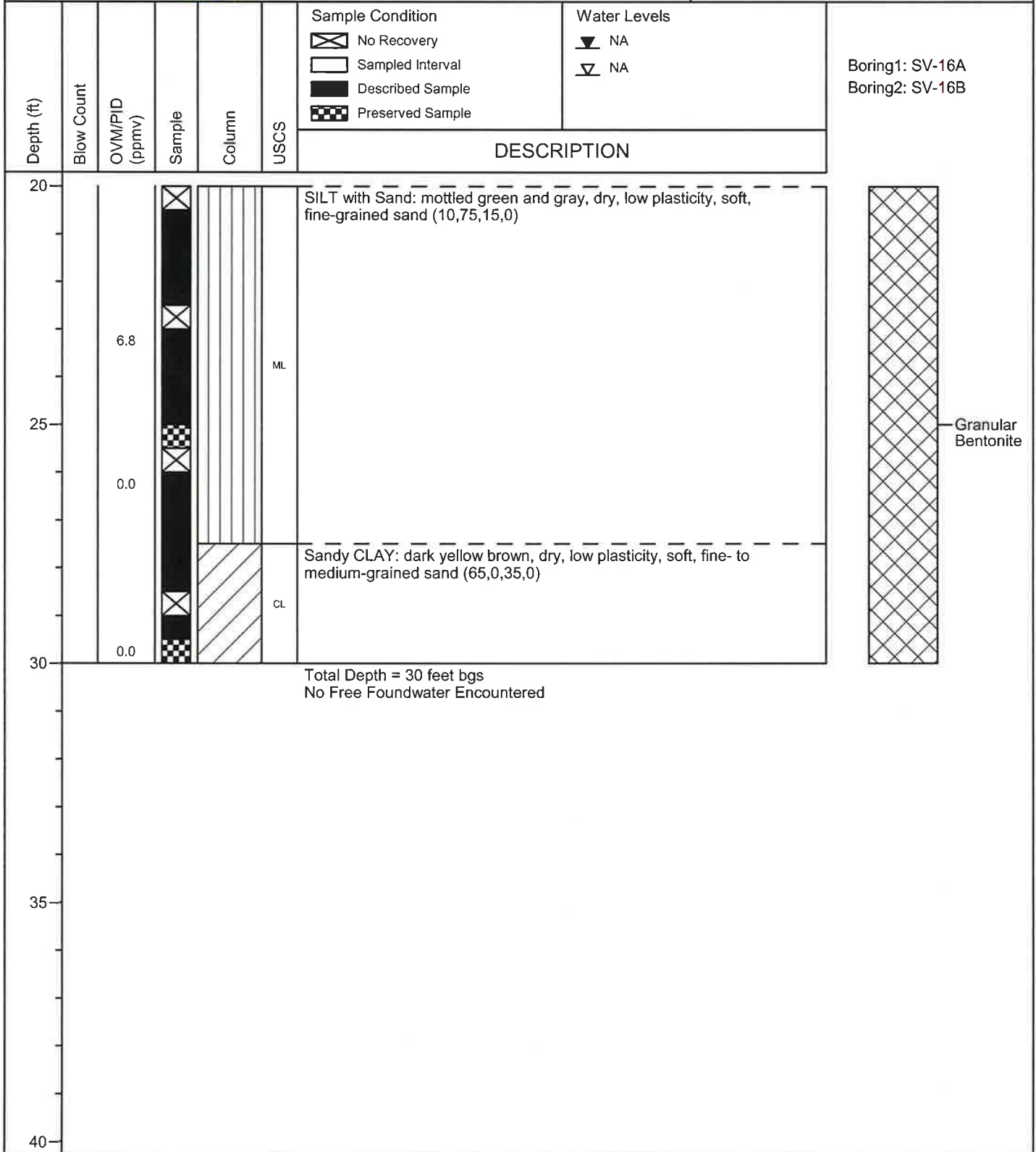


BORING LOG SV-16

(Page 2 of 2)

Dates Drilled: : 6/3/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.050797
 Location N-S : 37.694549
 Total Depth: : 30' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Danfels, P.G. 8737
 Signature: : *[Signature]*



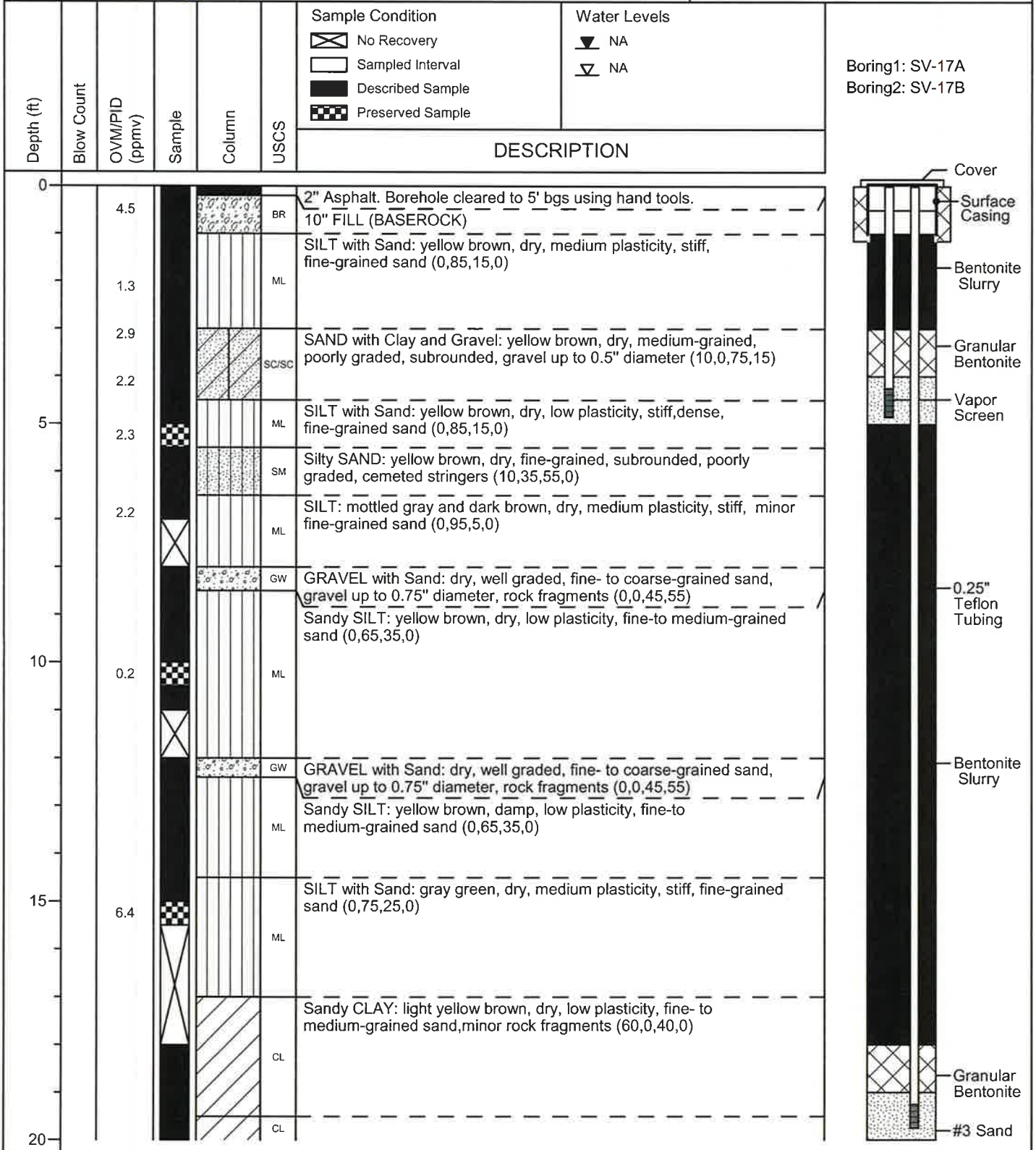


BORING LOG SV-17

(Page 1 of 2)

Dates Drilled: : 6/3/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.050793
 Location N-S : 37.694437
 Total Depth: : 30' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: : *[Signature]*



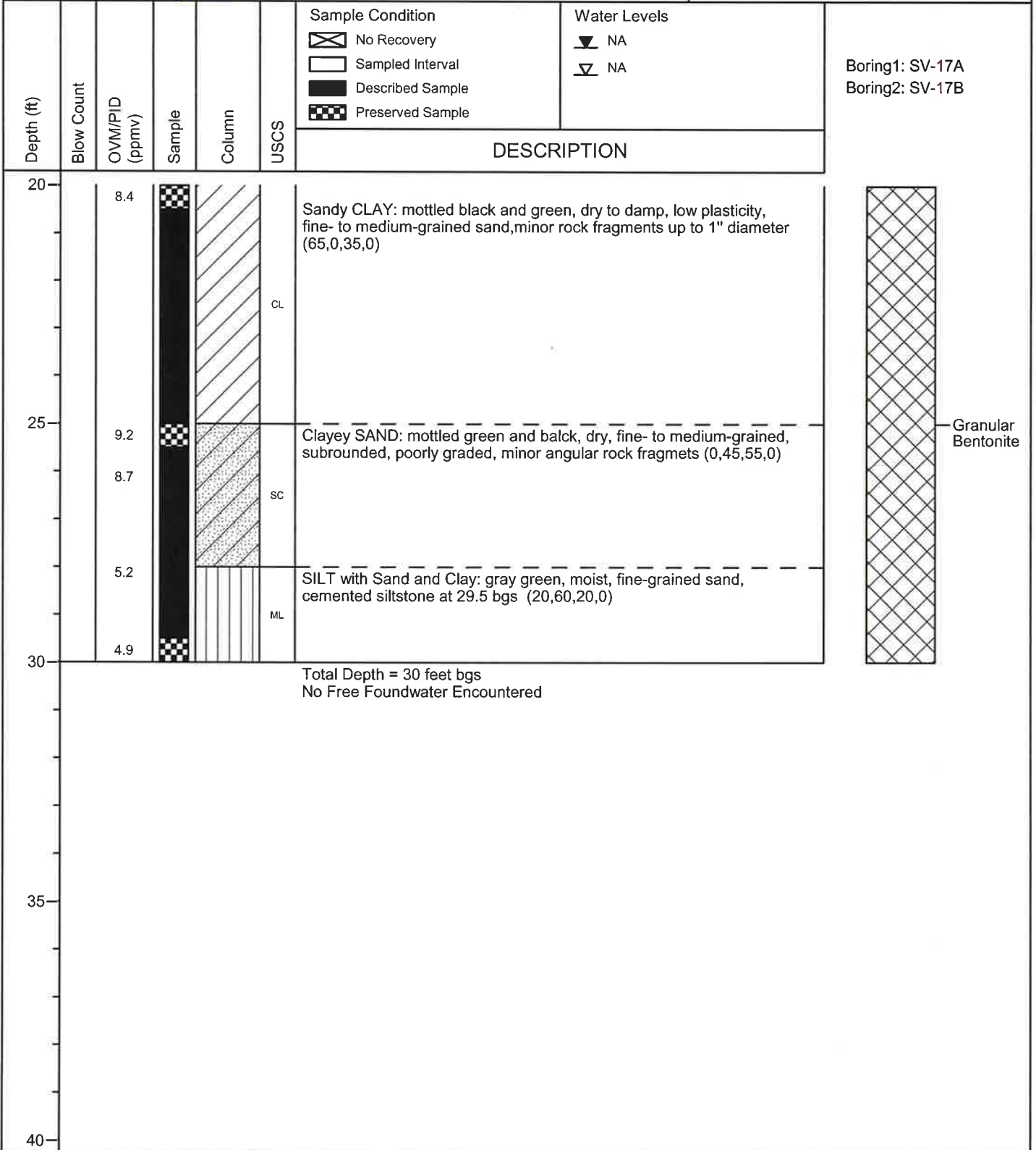


BORING LOG SV-17

(Page 2 of 2)

Dates Drilled: : 6/3/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.050793
 Location N-S : 37.694437
 Total Depth: : 30' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: : *[Signature]*



Boring1: SV-17A
 Boring2: SV-17B

Granular Bentonite

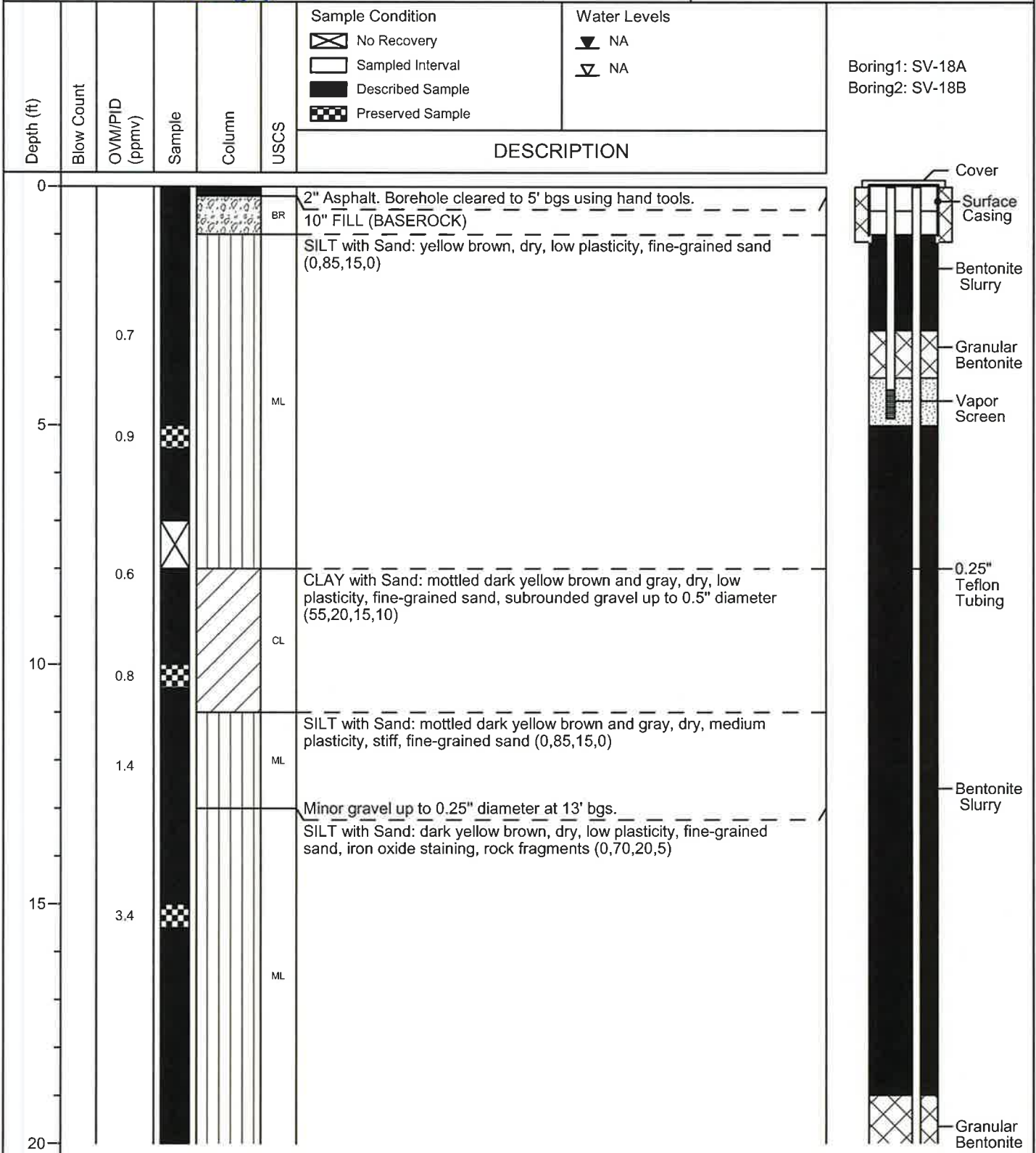


BORING LOG SV-18

(Page 1 of 2)

Dates Drilled: : 6/4/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.050818
 Location N-S : 37.694322
 Total Depth: : 28' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: : *[Signature]*





BORING LOG SV-18

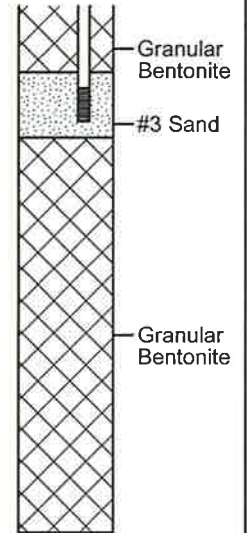
(Page 2 of 2)

Dates Drilled: : 6/4/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.050818
 Location N-S : 37.694322
 Total Depth: : 28' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: :

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels
						<input checked="" type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input type="checkbox"/> NA <input type="checkbox"/> NA
DESCRIPTION							
20		5.6			ML		
		6.4			SC	Clayey SAND: mottled dark gray and green, dry, fine- to medium-grained, moderately graded, angular rock fragments up to 2" diameter (35,0,55,10)	
25		5.3			ML	Sandy SILT: dark gray and yellow brown, dry, low plasticity, fine- to medium-grained sand, fine gravel (0,50,40,10)	
		8.7			ML	Sandy SILT: dark gray and green, dry, low plasticity, stiff, fine-grained sand, fine gravel, cemented siltstone and rock fragments (0,50,40,10)	

Boring1: SV-18A
 Boring2: SV-18B



Total Depth = 28 feet bgs
 No Free Foundwater Encountered

30
35
40

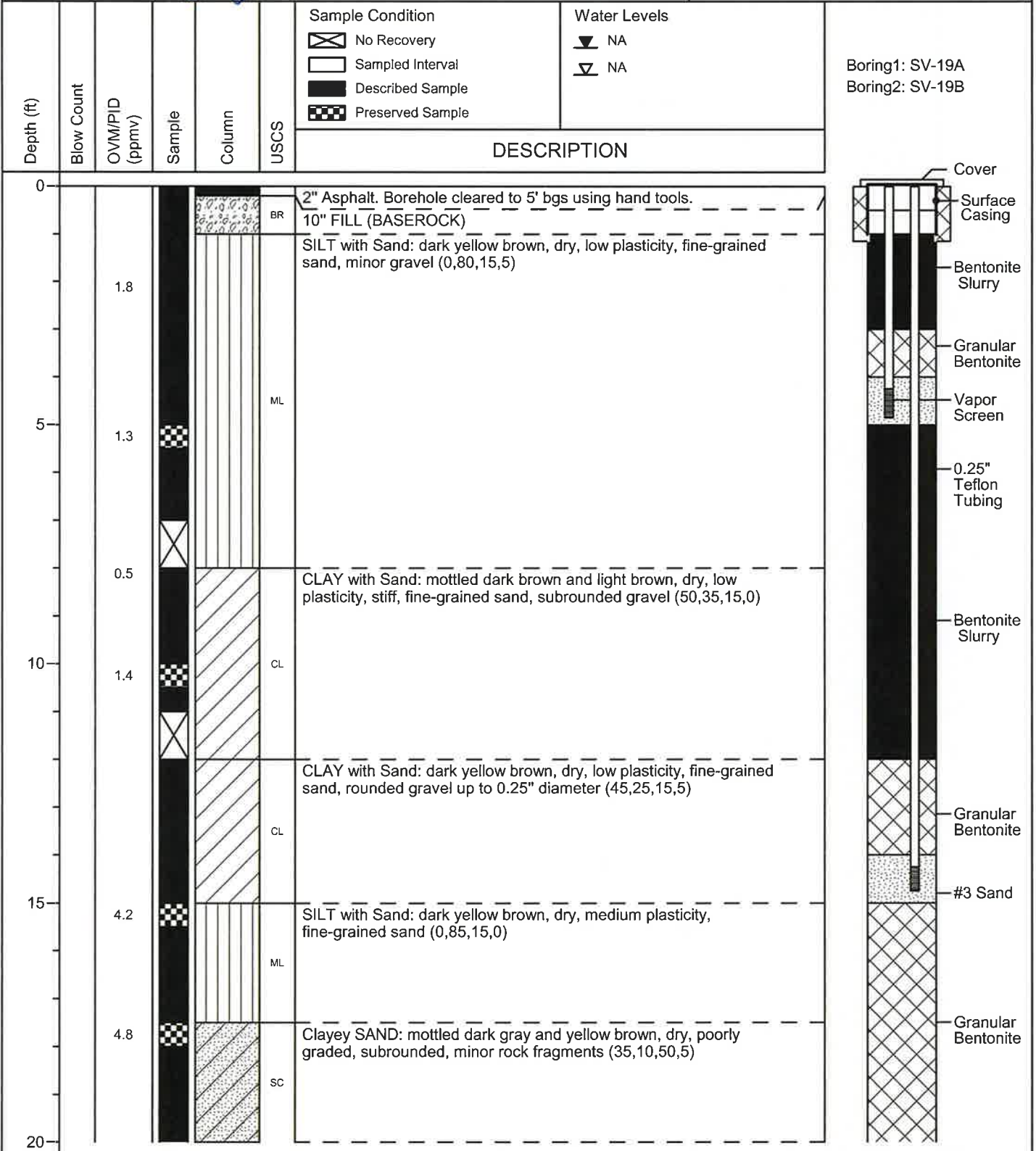


BORING LOG SV-19

(Page 1 of 2)

Dates Drilled: : 6/4/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.051035
 Location N-S : 37.694316
 Total Depth: : 28' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature:






BORING LOG SV-19

(Page 2 of 2)

Dates Drilled: : 6/4/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.051035
 Location N-S : 37.694316
 Total Depth: : 28' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: :

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION
						<input checked="" type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input type="checkbox"/> NA <input type="checkbox"/> NA	
20								 <p>Granular Bentonite</p>
25		6.2			ML			
28.1		8.1			ML			
Total Depth = 28 feet bgs No Free Foundwater Encountered								
30								
35								
40								

Boring1: SV-19A
 Boring2: SV-19B

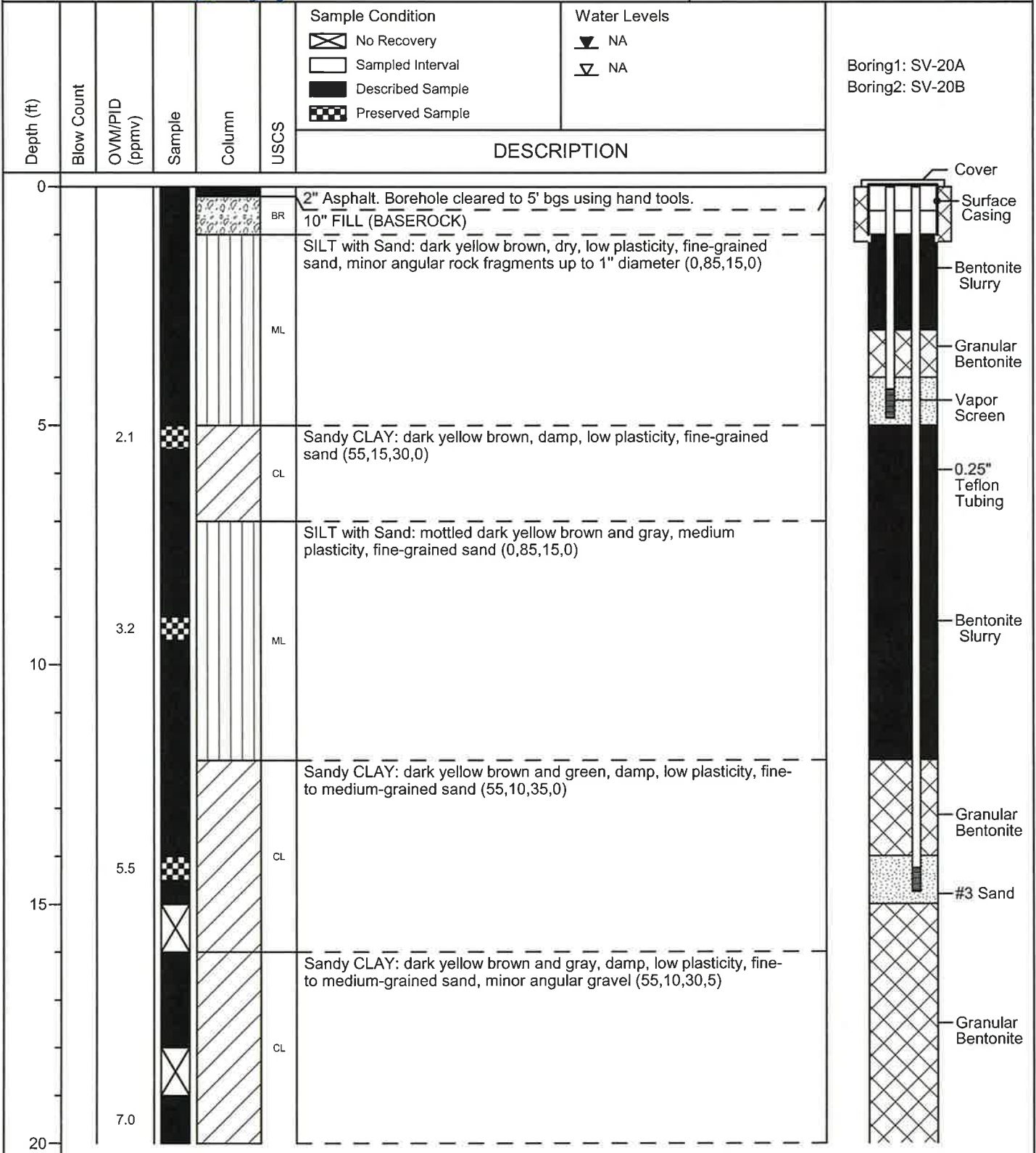


BORING LOG SV-20

(Page 1 of 2)

Dates Drilled: 6/4/15
 Drilling Co.: Gregg Drilling
 Drilling Method: Solid-Stem Auger
 Sampling Method: Direct Push
 Borehole Diameter: 4"
 Casing Diameter: 0.25"
 Location E-W: -122.051109
 Location N-S: 37.694367
 Total Depth: 27' bgs
 First GW Depth: Not Encountered

Project No.: Dry Clean 580 / Z075000152
 Site: 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: Nadya Vicente
 Reviewed By: David R. Daniels, P.G. 8737
 Signature: *[Signature]*





BORING LOG SV-20

(Page 2 of 2)

Dates Drilled: : 6/4/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.051109
 Location N-S : 37.694367
 Total Depth: : 27' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: :

Depth (ft)	Blow Count	OVM/PIID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION
						<input checked="" type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input type="checkbox"/> NA <input type="checkbox"/> NA	
20					ML			SILT with Sand: dark yellow brown and brown, dry, low plasticity, stiff, fine-grained sand (20,60,20,0)
					CL			Sandy CLAY: dark gray and green, dry, non-plastic, angular rock fragments (60,10,30,0)
25	7.9				ML			Sandy SILT: dark gray and black, dry, low plasticity, fine-grained sand, large angular rock fragments (10,55,25,10)
	4.0							
Total Depth = 27 feet bgs No Free Foundwater Encountered								
30								
35								
40								

Boring1: SV-20A
 Boring2: SV-20B



Granular Bentonite



BORING LOG SV-21

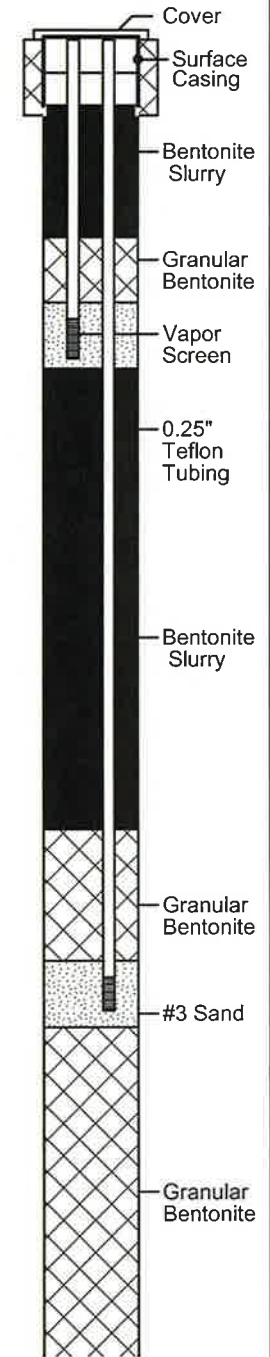
(Page 1 of 2)

Dates Drilled: : 6/5/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.051143
 Location N-S : 37.694446
 Total Depth: : 24' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature:

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION
						<input checked="" type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input type="checkbox"/> NA <input type="checkbox"/> NA	
0					BR			3" Asphalt. Borehole cleared to 5' bgs using hand tools. 9" FILL (BASEROCK)
2.0					ML			SILT with Sand: yellow brown, dry, low plasticity, soft, fine-grained sand (0,85,15,0)
3.2					CL			Sandy CLAY: dark gray, damp, low plasticity, fine-grained sand (55,0,45,0)
3.1					CL			Sandy CLAY: dark green, damp, low plasticity, fine-grained sand (60,0,40,0) Mottled dark gray and green at 7' bgs.
2.8					ML			SILT: mottled yellow brown, gray and green, dry, low plasticity, soft fine-grained sand (30,60,10,0)
4.1					ML			SILT: dark brown, damp, low to medium plasticity, stiff (0,90,10,0)
5.1					ML			
8.6					ML			Sandy SILT: mottled black, green and brown, damp, low plasticity, fine-grained sand, rock fragments up to 1.5" diameter (5,50,45,0)
5.1					SC			Clayey SAND: orange-yellow brown, dry, fine- to medium-grained, poorly graded, subrounded, minor gravel (40,0,50,10)
					ML			SILT with Sand: green brown, dry, low plasticity, fine-grained sand (15,65,20,0)

Boring1: SV-21A
 Boring2: SV-21B



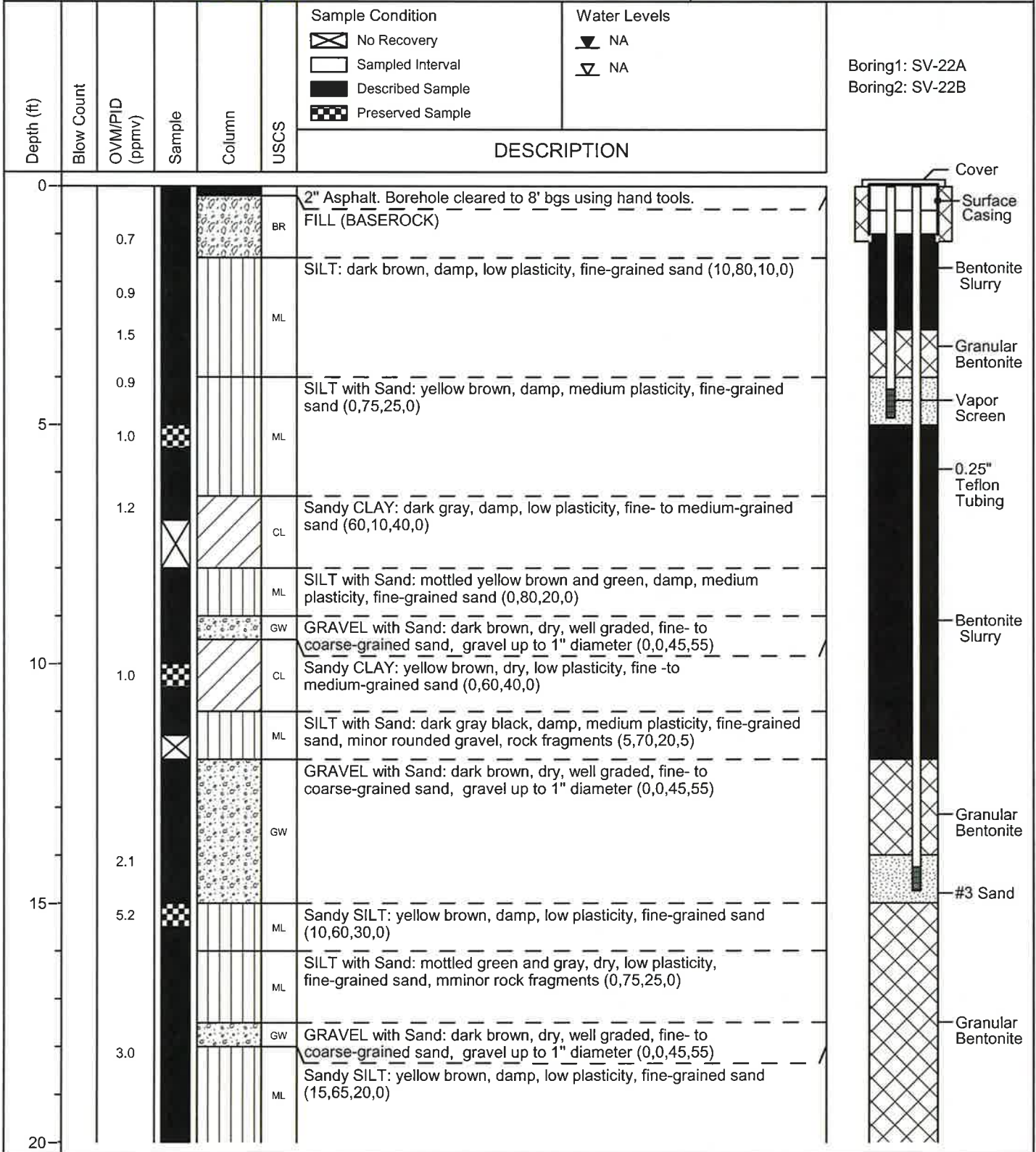


BORING LOG SV-22

(Page 1 of 2)

Dates Drilled: : 6/4/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.050902
 Location N-S : 37.694488
 Total Depth: : 28' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: :





BORING LOG SV-22

(Page 2 of 2)

Dates Drilled: : 6/4/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.050902
 Location N-S : 37.694488
 Total Depth: : 28' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: : *[Signature]*

Depth (ft)	Blow Count	OVM/PIID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION
						<input checked="" type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input type="checkbox"/> NA <input type="checkbox"/> NA	
20		4.7			ML			
					GW			GRAVEL with Sand: dark brown, dry, well graded, fine- to coarse-grained sand, gravel up to 1" diameter (0,0,45,55)
					ML			SILT with Sand: dark green gray, damp, low plasticity, fine-grained sand (10,70,20,0)
					ML			SILT with Sand: dark brown, damp, medium plasticity, stiff, fine-grained sand (0,85,15,0)
					GW			GRAVEL with Sand: dark brown, damp, well graded, fine- to coarse-grained sand, angular rock fragments (0,0,45,55)
25					SC			Clayey SAND: light yellow brown, damp, fine- to medium-grained, subrounded, poorly graded (35,0,65,0)
					CL			CLAY with Sand: yellow brown and dark green, dry, low plasticity, fine- to medium-grained sand, minor rock fragments up to 2.5" diameter. Siltstone fragments (55,20,25,0)
Total Depth = 28 feet bgs No Free Foundwater Encountered								
30								
35								
40								

Boring1: SV-22A
 Boring2: SV-22B



Granular Bentonite

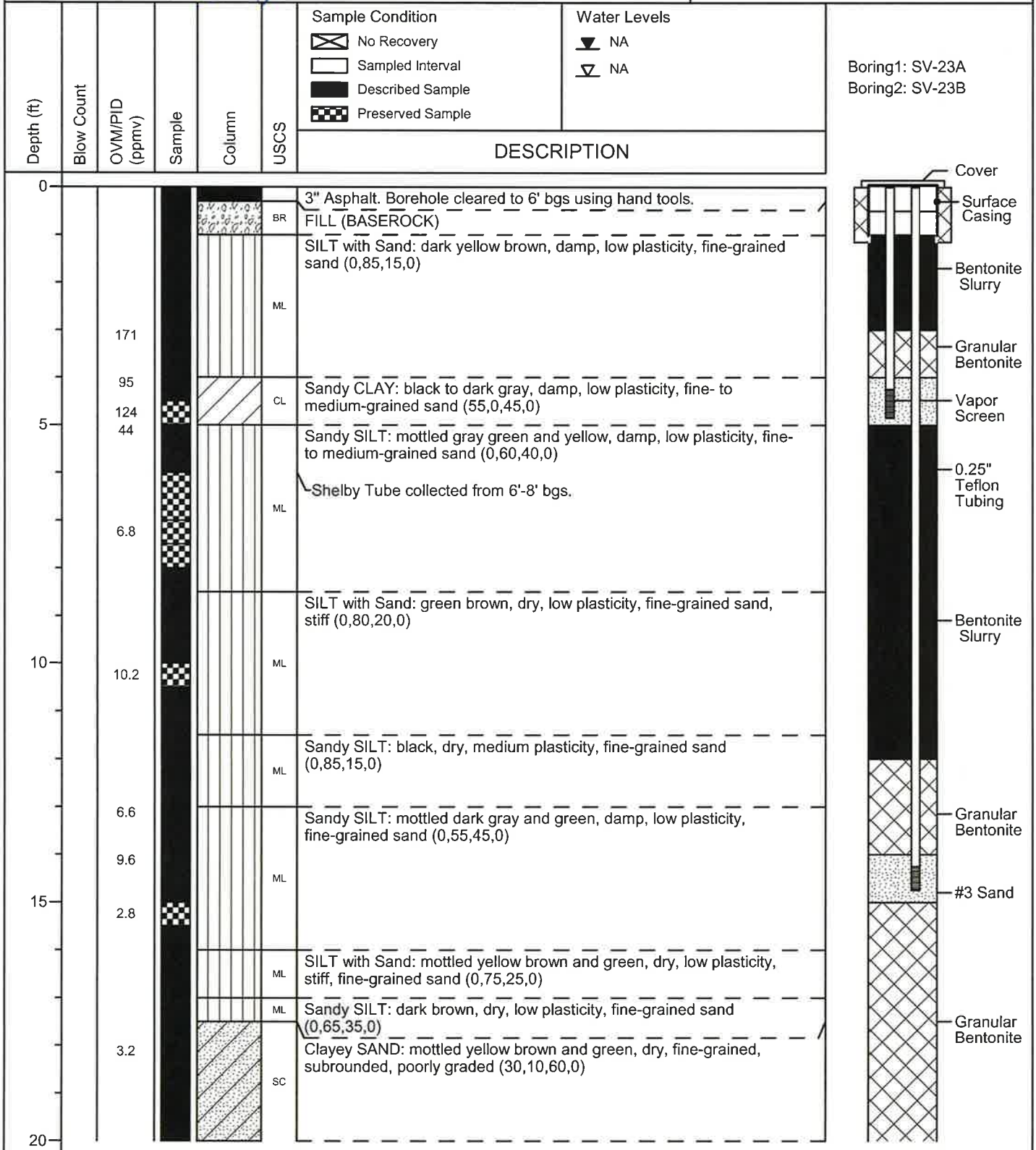


BORING LOG SV-23

(Page 1 of 2)

Dates Drilled: : 6/5/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.051024
 Location N-S : 37.694494
 Total Depth: : 25' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: : *[Signature]*





BORING LOG SV-23

(Page 2 of 2)

Dates Drilled: : 6/5/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.051024
 Location N-S : 37.694494
 Total Depth: : 25' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: : *[Signature]*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION
						<input checked="" type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input type="checkbox"/> NA <input type="checkbox"/> NA	
20		3.0			ML			SILT with Sand: yellow brown with some green, dry, non-plastic, loose, fine -to medium-grained sand (0,60,40,0)
25		7.4			ML			SILT with Sand: dark brown and green, dry, low plasticity, some crushed red rock fragments (possibly brick) and rock fragments up to 3" diameter (0,65,35,0)
						Total Depth = 25 feet bgs No Free Foundwater Encountered		
30								
35								
40								

Boring1: SV-23A
 Boring2: SV-23B



Granular Bentonite

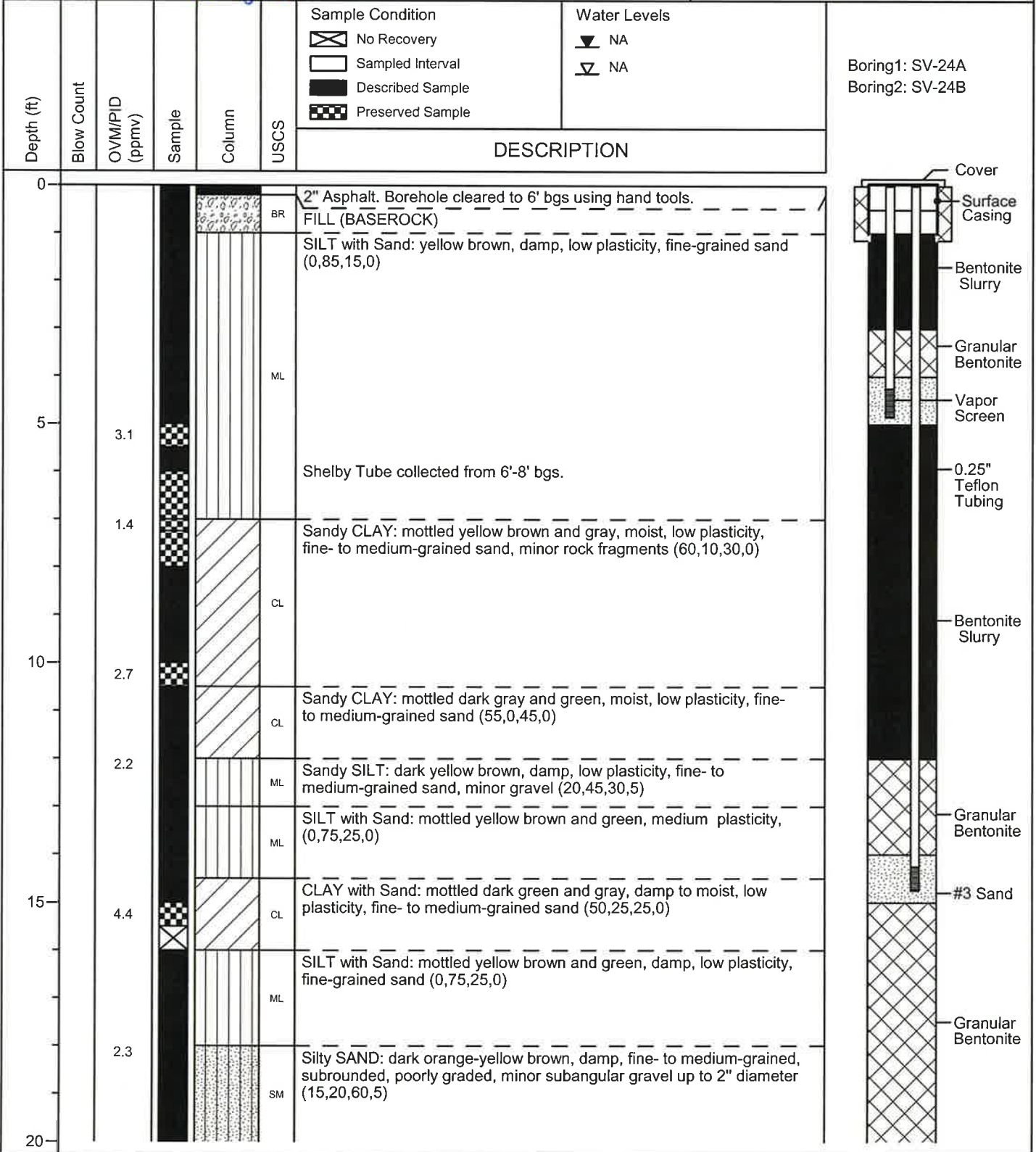


BORING LOG SV-24

(Page 1 of 2)

Dates Drilled: : 6/5/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.051971
 Location N-S : 37.694399
 Total Depth: : 28' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: : *[Signature]*





BORING LOG SV-24

(Page 2 of 2)

Dates Drilled: : 6/5/15
 Drilling Co.: : Gregg Drilling
 Drilling Method: : Solid-Stem Auger
 Sampling Method: : Direct Push
 Borehole Diameter: : 4"
 Casing Diameter: : 0.25"
 Location E-W : -122.051971
 Location N-S : 37.694399
 Total Depth: : 28' bgs
 First GW Depth: : Not Encountered

Project No.: : Dry Clean 580 / Z075000152
 Site: : 3735 E. Castro Valley Boulevard, Castro Valley, CA
 Logged By: : Nadya Vicente
 Reviewed By: : David R. Daniels, P.G. 8737
 Signature: : *[Signature]*

Depth (ft)	Blow Count	OVM/PIID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION
						<input checked="" type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input type="checkbox"/> NA <input type="checkbox"/> NA	
20		2.7			SM			
					ML			SILT with Sand: black with green, dry, low plasticity, stiff, fine-grained sand, minor gravel up to 0.25" diameter (10,70,20,0)
		7.6			ML			Large rock fragments at 23.5' bgs (up to 4" diameter)
		5.8			ML			SILT with Sand: dark black brown, dry, medium plasticity, fine-grained sand (0,85,15,0)
25					sc			Clayey SAND: mottled dark green and brown, dry, fine- to medium-grained, subrounded, poorly graded, rock fragments up to 2" diameter (35,10,50,5)
Total Depth = 28 feet bgs No Free Foundwater Encountered								
30								
35								
40								

Boring1: SV-24A
 Boring2: SV-24B



Granular Bentonite

APPENDIX E
FIELD DATA SHEETS

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-16A (5') Date 6-25-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1329	1334	20/20	-	
Purge	1335	1348	-	200 cc/min	He: <u>10</u> % under shroud, <u>6</u> ppm leak
Sample	1355	1404	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LL769

ST# 60189622 @ 1407

Flow Regulator ID# AD2

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3PV = 13 min



Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-16 B (20') Date 6-25-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1329	1334	20/20	-	
Purge	1335	1350	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1355	1406	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____ Summa ID# LC631

ST# G0189345 @ 1357

Flow Regulator ID# AD24

Duplicate: _____ Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3 PV = 15 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-17A

Date 6-25-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1428	1433	20/20	-	
Purge	1433	1446	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1453	1500	30/6	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC308

ST# G0150611 @ 1510

Flow Regulator ID# AD136

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3PV=13min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-17B

Date 6-25-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1428	1433	20/20	-	
Purge	1433	1448	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1453	1506	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC 820

ST # 60143005 @ 1453

Flow Regulator ID# AD 86

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3PV = 15 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-18 A (5')

Date 6/25/15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1150	1155	20/20	-	
Purge	1155	1208	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1214	1222	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC 372

ST# G0189314 @ 1240

Flow Regulator ID# AD112

~~Duplicate~~: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3 PV = 13 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-18B (22')

Date 6/25/15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1150	1155	20/20	-	
Purge	1155	1210	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1214	1232	30/6	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC050

Flow Regulator ID# AD69

* Vac down hole slowly increasing
 ~3 In/hg @ end of purge.

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

ST # 60137937 1220

Purge Volume: 3PV = 15 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-19A (5')

Date 6-25-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1526	1531	20/20	-	
Purge	1532	1545	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1549	1557	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: <u> </u> % maintained during sample collection

Sample: _____

Summa ID# SLC066

ST# G0189606 @ 1615

Flow Regulator ID# AD82

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3PV = 13min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-19B (15') Date 6-25-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1526	1531	20/20	-	
Purge	1532	1547	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1549	1630	30/16	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____ Summa ID# LC 838

ST# 60187201 @ 1543

Flow Regulator ID# AD07

Duplicate: _____ Summa ID# _____

Flow Regulator ID# _____

* Sample stopped collecting @ 16 Hg -
 let sit for 30 minutes - still no collection -
 abandon sample.

Purge Volume: 3PV = 15 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-20A

Date 6-25-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1642	1647	20/20	—	
Purge	1647	1700	—	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1701	1710	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC1018

ST# 60187290 @ 1720

Flow Regulator ID# AD184

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3PV = 13 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-20B

Date 6-25-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1642	1647	20/20	-	
Purge	1647	1702	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1704	1725	30/5	150 cc/min	He: <u>50</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC1001

ST# G0184764 @ 1706

Flow Regulator ID# AD06

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 30V = 15 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-21A

Date 6-26-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1100	1105	20/20	—	
Purge	1106	1119	—	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1122	1136	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC912

Flow Regulator ID# AD23

ST# G0137972 @ 1141

dup # G0141337 @ 1142

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: _____

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-21B (15') Date 6-26-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	1100	1105	20/20	—	
Purge	1106	1121	—	200cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1122	1131	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: <u> </u> % maintained during sample collection

Sample: _____ Summa ID# LC913

ST# G0183819 @ 1125

Flow Regulator ID# AD16

Duplicate: _____ Summa ID# _____

Flow Regulator ID# _____

Purge Volume: _____

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-22A

Date 6-26-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	0947	0952	20/20	-	
Purge	0953	1006	-	200cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1011	1023	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC1010

ST# G0187123 @ 1028

Flow Regulator ID# AD61

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3PV = 13 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-22B (15') Date 6-26-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	0947	0952	20/20	-	
Purge	0953	1008	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	1011	1018	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC937

ST# 60184759

1014

Flow Regulator ID# AD163

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3 PV = 15 min

Cardno ATC Project No. Z075000152
3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-23A

Date 6-26-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	0726	0731	20/20	—	
Purge	0733	0746	—	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	0752	0821	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate	0752	0823	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection

Sample: _____

Summa ID# LC088

ST # G0188617 @ 0828

Flow Regulator ID# AD 34

* Vac down hole ~ 5 in/hg @ end of purge

Duplicate: 23A

Summa ID# LC277

Flow Regulator ID# AD 140

Purge Volume: 3PV = 13min

Cardno ATC Project No. Z075000152
3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-23B (15')

Date 6-26-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	0726	0731	20/20	-	
Purge	0733	0748	-	200cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	0752	0806	30/5	150cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LL480

ST # 60186955 @ 0757

Flow Regulator ID# AD3i

* Vac down hole ~ 5 In/Hg @ end of purge

Duplicate: /

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3PV = 15 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-24A

Date 6-26-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	0847	0852	20/20	-	
Purge	0853	0906	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	0911	0921	30/5	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC361

ST # G0184789 © 0930

Flow Regulator ID# AD22

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3PV = 13 min

Cardno ATC Project No. Z075000152
 3735 E. Castro Valley Blvd, Castro Valley, CA

SV Point Sampling

Well ID: SV-24B (15') Date 6-26-15

	Start (time)	End (time)	Inches Hg	Flow Setting (cc/min)	Helium
Shut In Test	0847	0852	20/20	-	
Purge	0853	0908	-	200 cc/min	He: <u>10</u> % under shroud, <u>0</u> ppm leak
Sample	0911	0925	30/6	150 cc/min	He: <u>10</u> % maintained during sample collection
Duplicate					He: _____ % maintained during sample collection

Sample: _____

Summa ID# LC 894

ST# G0141322 @ 0915

Flow Regulator ID# AD175

Duplicate: _____

Summa ID# _____

Flow Regulator ID# _____

Purge Volume: 3 PV = 15 min

Well Depth 121.92
 Boring Diameter 10.16
 Sand Pack Height 30.48
 Purge Flow 150

5 feet
4 inch
12 inch
150 cc/min

Porosity 0.333333
 Volume 3 862.29 cc

Purge Time 5.75 minutes

* Fill in Yellow Area Only

	1PV	3PV	10PV
100cc/min	8.62 min	26 min	1 hr 26 min
150 cc/min	5.75 min	17 min	58 min
200 cc/min	4.31 min	13 min	43 min

1155
 13
 8911

Well Depth	15 feet	426.72
Boring Diameter	4 inch	10.16
Sand Pack Height	12 inch	30.48
Purge Flow	200 cc/min	200

Porosity Volume
0.3333333
3 958.81 cc

Purge Time
4.79 minutes

* Fill in Yellow Area Only

	1PV	3PV	10PV
100cc/min	9.59 min	29 min	1 hr 36 min
150 cc/min	6.39 min	19 min	1 hr 4 min
200 cc/min	4.79 min	15 min	48 min

Well Depth 20 feet 579.12
 Boring Diameter 4 inch 10.16
 Sand Pack Height 12 inch 30.48
 Purge Flow 200 cc/min 200

Porosity 0.333333
 Volume 3 1007.08 cc

Purge Time 5.04 minutes

* Fill in Yellow Area Only

		1PV	3PV	10PV
100cc/min		10.07 min	30 min	1 hr 40 min
150 cc/min		6.71 min	20 min	1 hr 7 min
200 cc/min		5.04 min	15 min	50 min

Well Depth	22 feet	640.08	Porosity	Volume
Boring Diameter	4 inch	10.16	0.3333333	
Sand Pack Height	12 inch	30.48	3	1026.38 cc
Purge Flow	100 cc/min	100		

* Fill in Yellow Area Only

Purge Time
10.26 minutes

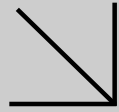
		1PV	3PV	10PV
100cc/min		10.26 min	31 min	1 hr 43 min
150 cc/min		6.84 min	21 min	1 hr 8 min
200 cc/min		5.13 min	15 min	51 min

APPENDIX F

LABORATORY ANALYTICAL REPORTS



Calscience



WORK ORDER NUMBER: 15-06-0698

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: 580 Market Place Shopping Center

Attention: Gabe Stivala
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Amanda Porter

Approved for release on 06/16/2015 by:
Amanda Porter
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

Client Project Name: 580 Market Place Shopping Center
Work Order Number: 15-06-0698

1	Work Order Narrative.	3
2	Client Sample Data.	4
	2.1 EPA 8015B (M) TPH Gasoline (Solid).	4
	2.2 EPA 8260B Volatile Organics + Oxygenates (Solid).	12
3	Quality Control Sample Data.	126
	3.1 MS/MSD.	126
	3.2 LCS/LCSD.	135
4	Sample Analysis Summary.	143
5	Glossary of Terms and Qualifiers.	144
6	Chain-of-Custody/Sample Receipt Form.	145

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/09/15. They were assigned to Work Order 15-06-0698.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 1 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5.5-SV16	15-06-0698-1-A	06/03/15 10:35	Solid	GC 24	06/09/15	06/12/15 03:37	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.52		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		67		42-126			
S-11.5-SV16	15-06-0698-2-A	06/03/15 10:55	Solid	GC 24	06/09/15	06/11/15 21:57	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		73		42-126			
S-14.5-SV16	15-06-0698-3-A	06/03/15 11:00	Solid	GC 24	06/09/15	06/11/15 22:31	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		59		42-126			
S-19.5-SV16	15-06-0698-4-A	06/03/15 11:25	Solid	GC 24	06/09/15	06/11/15 23:05	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.51		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
S-25-SV16	15-06-0698-5-A	06/03/15 11:30	Solid	GC 24	06/09/15	06/11/15 23:39	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 2 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-29.5-SV16	15-06-0698-6-A	06/03/15 11:32	Solid	GC 24	06/09/15	06/12/15 00:13	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		74		42-126			
S-5-SV17	15-06-0698-7-A	06/03/15 13:40	Solid	GC 24	06/09/15	06/12/15 00:47	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
S-10-SV17	15-06-0698-8-A	06/03/15 14:15	Solid	GC 24	06/09/15	06/12/15 05:18	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		71		42-126			
S-15-SV17	15-06-0698-9-A	06/03/15 14:35	Solid	GC 24	06/09/15	06/12/15 05:52	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.49		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
S-20-SV17	15-06-0698-10-A	06/03/15 14:50	Solid	GC 24	06/09/15	06/12/15 06:26	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		68		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 3 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-SV22	15-06-0698-11-A	06/04/15 07:35	Solid	GC 24	06/09/15	06/12/15 18:58	150611L063
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		64		42-126			
S-10-SV22	15-06-0698-12-A	06/04/15 07:50	Solid	GC 24	06/09/15	06/12/15 07:00	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.49		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		73		42-126			
S-15-SV22	15-06-0698-13-A	06/04/15 07:55	Solid	GC 24	06/09/15	06/12/15 07:34	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.51		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		58		42-126			
S-20-SV22	15-06-0698-14-A	06/04/15 08:05	Solid	GC 24	06/09/15	06/12/15 08:08	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.51		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		69		42-126			
S-27.5-SV22	15-06-0698-15-A	06/04/15 08:15	Solid	GC 24	06/09/15	06/12/15 08:42	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.48		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		70		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 4 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-SV18	15-06-0698-16-A	06/04/15 09:50	Solid	GC 24	06/09/15	06/12/15 09:15	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.48		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		69		42-126			
S-10-SV18	15-06-0698-17-A	06/04/15 09:55	Solid	GC 24	06/09/15	06/12/15 09:49	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.52		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
S-15-SV18	15-06-0698-18-A	06/04/15 10:21	Solid	GC 24	06/09/15	06/12/15 10:57	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.49		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		70		42-126			
S-22-SV18	15-06-0698-19-A	06/04/15 10:25	Solid	GC 24	06/09/15	06/12/15 11:31	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
S-27.5-SV18	15-06-0698-20-A	06/04/15 10:28	Solid	GC 24	06/09/15	06/12/15 12:05	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.49		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 5 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-SV19	15-06-0698-21-A	06/04/15 12:25	Solid	GC 24	06/09/15	06/12/15 12:38	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		54		42-126			
S-10-SV19	15-06-0698-22-A	06/04/15 12:35	Solid	GC 24	06/09/15	06/12/15 20:40	150611L063
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		73		42-126			
S-15-SV19	15-06-0698-23-A	06/04/15 12:45	Solid	GC 24	06/09/15	06/12/15 13:46	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		73		42-126			
S-17.5-SV19	15-06-0698-24-A	06/04/15 13:00	Solid	GC 24	06/09/15	06/12/15 14:20	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.48		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		71		42-126			
S-25-SV19	15-06-0698-25-A	06/04/15 13:05	Solid	GC 24	06/09/15	06/12/15 14:54	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.53		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 6 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-27.5-SV19	15-06-0698-26-A	06/04/15 13:10	Solid	GC 24	06/09/15	06/12/15 15:28	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.51		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		71		42-126			
S-5-SV20	15-06-0698-27-A	06/04/15 14:10	Solid	GC 24	06/09/15	06/12/15 16:01	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		74		42-126			
S-9-SV20	15-06-0698-28-A	06/04/15 14:20	Solid	GC 24	06/09/15	06/12/15 21:14	150611L063
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.52		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		73		42-126			
S-14-SV20	15-06-0698-29-A	06/04/15 14:25	Solid	GC 24	06/09/15	06/12/15 21:48	150611L063
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.53		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		58		42-126			
S-20-SV20	15-06-0698-30-A	06/04/15 14:35	Solid	GC 24	06/09/15	06/12/15 22:22	150611L063
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.51		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		70		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 7 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-25-SV20	15-06-0698-31-A	06/04/15 14:40	Solid	GC 24	06/09/15	06/12/15 22:56	150611L063
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		1.0		0.49		1.00	HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		80		42-126			
S-25-SV17	15-06-0698-32-A	06/04/15 15:00	Solid	GC 24	06/09/15	06/12/15 23:30	150611L063
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.48		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
S-29.5-SV17	15-06-0698-33-A	06/04/15 15:02	Solid	GC 24	06/09/15	06/13/15 00:03	150611L063
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.51		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		71		42-126			
Method Blank	099-14-571-2402	N/A	Solid	GC 24	06/11/15	06/11/15 11:12	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		70		42-126			
Method Blank	099-14-571-2406	N/A	Solid	GC 24	06/11/15	06/12/15 02:29	150611L041
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		55		42-126			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 8 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-571-2409	N/A	Solid	GC 24	06/11/15	06/12/15 17:50	150611L063

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	0.50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID	69	42-126		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 1 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5.5-SV16	15-06-0698-1-A	06/03/15 10:35	Solid	GC/MS XX	06/09/15	06/10/15 16:46	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0049	1.00	
Bromobenzene	ND	0.0049	1.00	
Bromochloromethane	ND	0.0049	1.00	
Bromodichloromethane	ND	0.0049	1.00	
Bromoform	ND	0.0049	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.049	1.00	
n-Butylbenzene	ND	0.0049	1.00	
sec-Butylbenzene	ND	0.0049	1.00	
tert-Butylbenzene	ND	0.0049	1.00	
Carbon Disulfide	ND	0.049	1.00	
Carbon Tetrachloride	ND	0.0049	1.00	
Chlorobenzene	ND	0.0049	1.00	
Chloroethane	ND	0.0049	1.00	
Chloroform	ND	0.0049	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0049	1.00	
4-Chlorotoluene	ND	0.0049	1.00	
Dibromochloromethane	ND	0.0049	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0099	1.00	
1,2-Dibromoethane	ND	0.0049	1.00	
Dibromomethane	ND	0.0049	1.00	
1,2-Dichlorobenzene	ND	0.0049	1.00	
1,3-Dichlorobenzene	ND	0.0049	1.00	
1,4-Dichlorobenzene	ND	0.0049	1.00	
Dichlorodifluoromethane	ND	0.0049	1.00	
1,1-Dichloroethane	ND	0.0049	1.00	
1,2-Dichloroethane	ND	0.0049	1.00	
1,1-Dichloroethene	ND	0.0049	1.00	
c-1,2-Dichloroethene	ND	0.0049	1.00	
t-1,2-Dichloroethene	ND	0.0049	1.00	
1,2-Dichloropropane	ND	0.0049	1.00	
1,3-Dichloropropane	ND	0.0049	1.00	
2,2-Dichloropropane	ND	0.0049	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 2 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0049	1.00	
c-1,3-Dichloropropene	ND	0.0049	1.00	
t-1,3-Dichloropropene	ND	0.0049	1.00	
Ethylbenzene	ND	0.0049	1.00	
2-Hexanone	ND	0.049	1.00	
Isopropylbenzene	ND	0.0049	1.00	
p-Isopropyltoluene	ND	0.0049	1.00	
Methylene Chloride	ND	0.049	1.00	
4-Methyl-2-Pentanone	ND	0.049	1.00	
Naphthalene	ND	0.049	1.00	
n-Propylbenzene	ND	0.0049	1.00	
Styrene	ND	0.0049	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0049	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0049	1.00	
Tetrachloroethene	ND	0.0049	1.00	
Toluene	ND	0.0049	1.00	
1,2,3-Trichlorobenzene	ND	0.0099	1.00	
1,2,4-Trichlorobenzene	ND	0.0049	1.00	
1,1,1-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.049	1.00	
Trichloroethene	ND	0.0049	1.00	
1,2,3-Trichloropropane	ND	0.0049	1.00	
1,2,4-Trimethylbenzene	ND	0.0049	1.00	
Trichlorofluoromethane	ND	0.049	1.00	
1,3,5-Trimethylbenzene	ND	0.0049	1.00	
Vinyl Acetate	ND	0.049	1.00	
Vinyl Chloride	ND	0.0049	1.00	
p/m-Xylene	ND	0.0049	1.00	
o-Xylene	ND	0.0049	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0049	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.049	1.00	
Diisopropyl Ether (DIPE)	ND	0.0099	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0099	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0099	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 3 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	106	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 4 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11.5-SV16	15-06-0698-2-A	06/03/15 10:55	Solid	GC/MS XX	06/09/15	06/10/15 19:03	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 5 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 6 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	105	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 7 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14.5-SV16	15-06-0698-3-A	06/03/15 11:00	Solid	GC/MS XX	06/09/15	06/10/15 19:31	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 8 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 9 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	108	62-146	
Toluene-d8	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 10 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-19.5-SV16	15-06-0698-4-A	06/03/15 11:25	Solid	GC/MS XX	06/09/15	06/10/15 19:58	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 11 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 12 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	102	63-141	
1,2-Dichloroethane-d4	107	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 13 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-25-SV16	15-06-0698-5-A	06/03/15 11:30	Solid	GC/MS XX	06/09/15	06/10/15 20:26	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0099	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 14 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.0099	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.0099	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0099	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0099	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 15 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	108	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 16 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-29.5-SV16	15-06-0698-6-A	06/03/15 11:32	Solid	GC/MS XX	06/09/15	06/10/15 20:53	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0099	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 17 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.0099	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.0099	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0099	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0099	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI	Date Received:	06/09/15
601 North McDowell Blvd.	Work Order:	15-06-0698
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	mg/kg
Project: 580 Market Place Shopping Center		Page 18 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	109	62-146	
Toluene-d8	98	80-120	

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 19 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-SV17	15-06-0698-7-A	06/03/15 13:40	Solid	GC/MS XX	06/09/15	06/10/15 21:20	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0099	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 20 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.0099	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.0099	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0099	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0099	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	98	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 21 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	111	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 22 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SV17	15-06-0698-8-A	06/03/15 14:15	Solid	GC/MS XX	06/09/15	06/10/15 21:48	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0051	1.00	
Bromobenzene	ND	0.0051	1.00	
Bromochloromethane	ND	0.0051	1.00	
Bromodichloromethane	ND	0.0051	1.00	
Bromoform	ND	0.0051	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.051	1.00	
n-Butylbenzene	ND	0.0051	1.00	
sec-Butylbenzene	ND	0.0051	1.00	
tert-Butylbenzene	ND	0.0051	1.00	
Carbon Disulfide	ND	0.051	1.00	
Carbon Tetrachloride	ND	0.0051	1.00	
Chlorobenzene	ND	0.0051	1.00	
Chloroethane	ND	0.0051	1.00	
Chloroform	ND	0.0051	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0051	1.00	
4-Chlorotoluene	ND	0.0051	1.00	
Dibromochloromethane	ND	0.0051	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0051	1.00	
Dibromomethane	ND	0.0051	1.00	
1,2-Dichlorobenzene	ND	0.0051	1.00	
1,3-Dichlorobenzene	ND	0.0051	1.00	
1,4-Dichlorobenzene	ND	0.0051	1.00	
Dichlorodifluoromethane	ND	0.0051	1.00	
1,1-Dichloroethane	ND	0.0051	1.00	
1,2-Dichloroethane	ND	0.0051	1.00	
1,1-Dichloroethene	ND	0.0051	1.00	
c-1,2-Dichloroethene	ND	0.0051	1.00	
t-1,2-Dichloroethene	ND	0.0051	1.00	
1,2-Dichloropropane	ND	0.0051	1.00	
1,3-Dichloropropane	ND	0.0051	1.00	
2,2-Dichloropropane	ND	0.0051	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 23 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0051	1.00	
c-1,3-Dichloropropene	ND	0.0051	1.00	
t-1,3-Dichloropropene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
2-Hexanone	ND	0.051	1.00	
Isopropylbenzene	ND	0.0051	1.00	
p-Isopropyltoluene	ND	0.0051	1.00	
Methylene Chloride	ND	0.051	1.00	
4-Methyl-2-Pentanone	ND	0.051	1.00	
Naphthalene	ND	0.051	1.00	
n-Propylbenzene	ND	0.0051	1.00	
Styrene	ND	0.0051	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0051	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0051	1.00	
Tetrachloroethene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0051	1.00	
1,1,1-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.051	1.00	
Trichloroethene	ND	0.0051	1.00	
1,2,3-Trichloropropane	ND	0.0051	1.00	
1,2,4-Trimethylbenzene	ND	0.0051	1.00	
Trichlorofluoromethane	ND	0.051	1.00	
1,3,5-Trimethylbenzene	ND	0.0051	1.00	
Vinyl Acetate	ND	0.051	1.00	
Vinyl Chloride	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 24 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	109	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 25 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SV17	15-06-0698-9-A	06/03/15 14:35	Solid	GC/MS XX	06/09/15	06/10/15 22:15	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0099	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 26 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.0099	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.0099	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0099	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0099	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 27 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	104	63-141	
1,2-Dichloroethane-d4	111	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 28 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-20-SV17	15-06-0698-10-A	06/03/15 14:50	Solid	GC/MS XX	06/09/15	06/10/15 22:42	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0051	1.00	
Bromobenzene	ND	0.0051	1.00	
Bromochloromethane	ND	0.0051	1.00	
Bromodichloromethane	ND	0.0051	1.00	
Bromoform	ND	0.0051	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.051	1.00	
n-Butylbenzene	ND	0.0051	1.00	
sec-Butylbenzene	ND	0.0051	1.00	
tert-Butylbenzene	ND	0.0051	1.00	
Carbon Disulfide	ND	0.051	1.00	
Carbon Tetrachloride	ND	0.0051	1.00	
Chlorobenzene	ND	0.0051	1.00	
Chloroethane	ND	0.0051	1.00	
Chloroform	ND	0.0051	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0051	1.00	
4-Chlorotoluene	ND	0.0051	1.00	
Dibromochloromethane	ND	0.0051	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0051	1.00	
Dibromomethane	ND	0.0051	1.00	
1,2-Dichlorobenzene	ND	0.0051	1.00	
1,3-Dichlorobenzene	ND	0.0051	1.00	
1,4-Dichlorobenzene	ND	0.0051	1.00	
Dichlorodifluoromethane	ND	0.0051	1.00	
1,1-Dichloroethane	ND	0.0051	1.00	
1,2-Dichloroethane	ND	0.0051	1.00	
1,1-Dichloroethene	ND	0.0051	1.00	
c-1,2-Dichloroethene	ND	0.0051	1.00	
t-1,2-Dichloroethene	ND	0.0051	1.00	
1,2-Dichloropropane	ND	0.0051	1.00	
1,3-Dichloropropane	ND	0.0051	1.00	
2,2-Dichloropropane	ND	0.0051	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 29 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0051	1.00	
c-1,3-Dichloropropene	ND	0.0051	1.00	
t-1,3-Dichloropropene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
2-Hexanone	ND	0.051	1.00	
Isopropylbenzene	ND	0.0051	1.00	
p-Isopropyltoluene	ND	0.0051	1.00	
Methylene Chloride	ND	0.051	1.00	
4-Methyl-2-Pentanone	ND	0.051	1.00	
Naphthalene	ND	0.051	1.00	
n-Propylbenzene	ND	0.0051	1.00	
Styrene	ND	0.0051	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0051	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0051	1.00	
Tetrachloroethene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0051	1.00	
1,1,1-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.051	1.00	
Trichloroethene	ND	0.0051	1.00	
1,2,3-Trichloropropane	ND	0.0051	1.00	
1,2,4-Trimethylbenzene	ND	0.0051	1.00	
Trichlorofluoromethane	ND	0.051	1.00	
1,3,5-Trimethylbenzene	ND	0.0051	1.00	
Vinyl Acetate	ND	0.051	1.00	
Vinyl Chloride	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 30 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	106	63-141	
1,2-Dichloroethane-d4	112	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 31 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-SV22	15-06-0698-11-A	06/04/15 07:35	Solid	GC/MS XX	06/09/15	06/10/15 23:09	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 32 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	94	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 33 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	104	63-141	
1,2-Dichloroethane-d4	111	62-146	
Toluene-d8	96	80-120	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 34 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SV22	15-06-0698-12-A	06/04/15 07:50	Solid	GC/MS XX	06/09/15	06/11/15 06:25	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 35 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 36 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	107	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 37 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SV22	15-06-0698-13-A	06/04/15 07:55	Solid	GC/MS XX	06/09/15	06/11/15 06:53	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0051	1.00	
Bromobenzene	ND	0.0051	1.00	
Bromochloromethane	ND	0.0051	1.00	
Bromodichloromethane	ND	0.0051	1.00	
Bromoform	ND	0.0051	1.00	
Bromomethane	ND	0.026	1.00	
2-Butanone	ND	0.051	1.00	
n-Butylbenzene	ND	0.0051	1.00	
sec-Butylbenzene	ND	0.0051	1.00	
tert-Butylbenzene	ND	0.0051	1.00	
Carbon Disulfide	ND	0.051	1.00	
Carbon Tetrachloride	ND	0.0051	1.00	
Chlorobenzene	ND	0.0051	1.00	
Chloroethane	ND	0.0051	1.00	
Chloroform	ND	0.0051	1.00	
Chloromethane	ND	0.026	1.00	
2-Chlorotoluene	ND	0.0051	1.00	
4-Chlorotoluene	ND	0.0051	1.00	
Dibromochloromethane	ND	0.0051	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0051	1.00	
Dibromomethane	ND	0.0051	1.00	
1,2-Dichlorobenzene	ND	0.0051	1.00	
1,3-Dichlorobenzene	ND	0.0051	1.00	
1,4-Dichlorobenzene	ND	0.0051	1.00	
Dichlorodifluoromethane	ND	0.0051	1.00	
1,1-Dichloroethane	ND	0.0051	1.00	
1,2-Dichloroethane	ND	0.0051	1.00	
1,1-Dichloroethene	ND	0.0051	1.00	
c-1,2-Dichloroethene	ND	0.0051	1.00	
t-1,2-Dichloroethene	ND	0.0051	1.00	
1,2-Dichloropropane	ND	0.0051	1.00	
1,3-Dichloropropane	ND	0.0051	1.00	
2,2-Dichloropropane	ND	0.0051	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 38 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0051	1.00	
c-1,3-Dichloropropene	ND	0.0051	1.00	
t-1,3-Dichloropropene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
2-Hexanone	ND	0.051	1.00	
Isopropylbenzene	ND	0.0051	1.00	
p-Isopropyltoluene	ND	0.0051	1.00	
Methylene Chloride	ND	0.051	1.00	
4-Methyl-2-Pentanone	ND	0.051	1.00	
Naphthalene	ND	0.051	1.00	
n-Propylbenzene	ND	0.0051	1.00	
Styrene	ND	0.0051	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0051	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0051	1.00	
Tetrachloroethene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0051	1.00	
1,1,1-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.051	1.00	
Trichloroethene	ND	0.0051	1.00	
1,2,3-Trichloropropane	ND	0.0051	1.00	
1,2,4-Trimethylbenzene	ND	0.0051	1.00	
Trichlorofluoromethane	ND	0.051	1.00	
1,3,5-Trimethylbenzene	ND	0.0051	1.00	
Vinyl Acetate	ND	0.051	1.00	
Vinyl Chloride	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.26	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 39 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	102	63-141	
1,2-Dichloroethane-d4	107	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 40 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-20-SV22	15-06-0698-14-A	06/04/15 08:05	Solid	GC/MS XX	06/09/15	06/11/15 07:20	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0049	1.00	
Bromobenzene	ND	0.0049	1.00	
Bromochloromethane	ND	0.0049	1.00	
Bromodichloromethane	ND	0.0049	1.00	
Bromoform	ND	0.0049	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.049	1.00	
n-Butylbenzene	ND	0.0049	1.00	
sec-Butylbenzene	ND	0.0049	1.00	
tert-Butylbenzene	ND	0.0049	1.00	
Carbon Disulfide	ND	0.049	1.00	
Carbon Tetrachloride	ND	0.0049	1.00	
Chlorobenzene	ND	0.0049	1.00	
Chloroethane	ND	0.0049	1.00	
Chloroform	ND	0.0049	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0049	1.00	
4-Chlorotoluene	ND	0.0049	1.00	
Dibromochloromethane	ND	0.0049	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0098	1.00	
1,2-Dibromoethane	ND	0.0049	1.00	
Dibromomethane	ND	0.0049	1.00	
1,2-Dichlorobenzene	ND	0.0049	1.00	
1,3-Dichlorobenzene	ND	0.0049	1.00	
1,4-Dichlorobenzene	ND	0.0049	1.00	
Dichlorodifluoromethane	ND	0.0049	1.00	
1,1-Dichloroethane	ND	0.0049	1.00	
1,2-Dichloroethane	ND	0.0049	1.00	
1,1-Dichloroethene	ND	0.0049	1.00	
c-1,2-Dichloroethene	ND	0.0049	1.00	
t-1,2-Dichloroethene	ND	0.0049	1.00	
1,2-Dichloropropane	ND	0.0049	1.00	
1,3-Dichloropropane	ND	0.0049	1.00	
2,2-Dichloropropane	ND	0.0049	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 41 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0049	1.00	
c-1,3-Dichloropropene	ND	0.0049	1.00	
t-1,3-Dichloropropene	ND	0.0049	1.00	
Ethylbenzene	ND	0.0049	1.00	
2-Hexanone	ND	0.049	1.00	
Isopropylbenzene	ND	0.0049	1.00	
p-Isopropyltoluene	ND	0.0049	1.00	
Methylene Chloride	ND	0.049	1.00	
4-Methyl-2-Pentanone	ND	0.049	1.00	
Naphthalene	ND	0.049	1.00	
n-Propylbenzene	ND	0.0049	1.00	
Styrene	ND	0.0049	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0049	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0049	1.00	
Tetrachloroethene	ND	0.0049	1.00	
Toluene	ND	0.0049	1.00	
1,2,3-Trichlorobenzene	ND	0.0098	1.00	
1,2,4-Trichlorobenzene	ND	0.0049	1.00	
1,1,1-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.049	1.00	
Trichloroethene	ND	0.0049	1.00	
1,2,3-Trichloropropane	ND	0.0049	1.00	
1,2,4-Trimethylbenzene	ND	0.0049	1.00	
Trichlorofluoromethane	ND	0.049	1.00	
1,3,5-Trimethylbenzene	ND	0.0049	1.00	
Vinyl Acetate	ND	0.049	1.00	
Vinyl Chloride	ND	0.0049	1.00	
p/m-Xylene	ND	0.0049	1.00	
o-Xylene	ND	0.0049	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0049	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.049	1.00	
Diisopropyl Ether (DIPE)	ND	0.0098	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0098	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0098	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	95	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 42 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	104	63-141	
1,2-Dichloroethane-d4	110	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 43 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-27.5-SV22	15-06-0698-15-A	06/04/15 08:15	Solid	GC/MS XX	06/09/15	06/11/15 07:47	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0049	1.00	
Bromobenzene	ND	0.0049	1.00	
Bromochloromethane	ND	0.0049	1.00	
Bromodichloromethane	ND	0.0049	1.00	
Bromoform	ND	0.0049	1.00	
Bromomethane	ND	0.024	1.00	
2-Butanone	ND	0.049	1.00	
n-Butylbenzene	ND	0.0049	1.00	
sec-Butylbenzene	ND	0.0049	1.00	
tert-Butylbenzene	ND	0.0049	1.00	
Carbon Disulfide	ND	0.049	1.00	
Carbon Tetrachloride	ND	0.0049	1.00	
Chlorobenzene	ND	0.0049	1.00	
Chloroethane	ND	0.0049	1.00	
Chloroform	ND	0.0049	1.00	
Chloromethane	ND	0.024	1.00	
2-Chlorotoluene	ND	0.0049	1.00	
4-Chlorotoluene	ND	0.0049	1.00	
Dibromochloromethane	ND	0.0049	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0098	1.00	
1,2-Dibromoethane	ND	0.0049	1.00	
Dibromomethane	ND	0.0049	1.00	
1,2-Dichlorobenzene	ND	0.0049	1.00	
1,3-Dichlorobenzene	ND	0.0049	1.00	
1,4-Dichlorobenzene	ND	0.0049	1.00	
Dichlorodifluoromethane	ND	0.0049	1.00	
1,1-Dichloroethane	ND	0.0049	1.00	
1,2-Dichloroethane	ND	0.0049	1.00	
1,1-Dichloroethene	ND	0.0049	1.00	
c-1,2-Dichloroethene	ND	0.0049	1.00	
t-1,2-Dichloroethene	ND	0.0049	1.00	
1,2-Dichloropropane	ND	0.0049	1.00	
1,3-Dichloropropane	ND	0.0049	1.00	
2,2-Dichloropropane	ND	0.0049	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 44 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0049	1.00	
c-1,3-Dichloropropene	ND	0.0049	1.00	
t-1,3-Dichloropropene	ND	0.0049	1.00	
Ethylbenzene	ND	0.0049	1.00	
2-Hexanone	ND	0.049	1.00	
Isopropylbenzene	ND	0.0049	1.00	
p-Isopropyltoluene	ND	0.0049	1.00	
Methylene Chloride	ND	0.049	1.00	
4-Methyl-2-Pentanone	ND	0.049	1.00	
Naphthalene	ND	0.049	1.00	
n-Propylbenzene	ND	0.0049	1.00	
Styrene	ND	0.0049	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0049	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0049	1.00	
Tetrachloroethene	ND	0.0049	1.00	
Toluene	ND	0.0049	1.00	
1,2,3-Trichlorobenzene	ND	0.0098	1.00	
1,2,4-Trichlorobenzene	ND	0.0049	1.00	
1,1,1-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.049	1.00	
Trichloroethene	ND	0.0049	1.00	
1,2,3-Trichloropropane	ND	0.0049	1.00	
1,2,4-Trimethylbenzene	ND	0.0049	1.00	
Trichlorofluoromethane	ND	0.049	1.00	
1,3,5-Trimethylbenzene	ND	0.0049	1.00	
Vinyl Acetate	ND	0.049	1.00	
Vinyl Chloride	ND	0.0049	1.00	
p/m-Xylene	ND	0.0049	1.00	
o-Xylene	ND	0.0049	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0049	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.049	1.00	
Diisopropyl Ether (DIPE)	ND	0.0098	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0098	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0098	1.00	
Ethanol	ND	0.24	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 45 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	104	63-141	
1,2-Dichloroethane-d4	111	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 46 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-SV18	15-06-0698-16-A	06/04/15 09:50	Solid	GC/MS Q	06/09/15	06/12/15 05:49	150611L030

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0049	1.00	
Bromobenzene	ND	0.0049	1.00	
Bromochloromethane	ND	0.0049	1.00	
Bromodichloromethane	ND	0.0049	1.00	
Bromoform	ND	0.0049	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.049	1.00	
n-Butylbenzene	ND	0.0049	1.00	
sec-Butylbenzene	ND	0.0049	1.00	
tert-Butylbenzene	ND	0.0049	1.00	
Carbon Disulfide	ND	0.049	1.00	
Carbon Tetrachloride	ND	0.0049	1.00	
Chlorobenzene	ND	0.0049	1.00	
Chloroethane	ND	0.0049	1.00	
Chloroform	ND	0.0049	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0049	1.00	
4-Chlorotoluene	ND	0.0049	1.00	
Dibromochloromethane	ND	0.0049	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0099	1.00	
1,2-Dibromoethane	ND	0.0049	1.00	
Dibromomethane	ND	0.0049	1.00	
1,2-Dichlorobenzene	ND	0.0049	1.00	
1,3-Dichlorobenzene	ND	0.0049	1.00	
1,4-Dichlorobenzene	ND	0.0049	1.00	
Dichlorodifluoromethane	ND	0.0049	1.00	
1,1-Dichloroethane	ND	0.0049	1.00	
1,2-Dichloroethane	ND	0.0049	1.00	
1,1-Dichloroethene	ND	0.0049	1.00	
c-1,2-Dichloroethene	ND	0.0049	1.00	
t-1,2-Dichloroethene	ND	0.0049	1.00	
1,2-Dichloropropane	ND	0.0049	1.00	
1,3-Dichloropropane	ND	0.0049	1.00	
2,2-Dichloropropane	ND	0.0049	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 47 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0049	1.00	
c-1,3-Dichloropropene	ND	0.0049	1.00	
t-1,3-Dichloropropene	ND	0.0049	1.00	
Ethylbenzene	ND	0.0049	1.00	
2-Hexanone	ND	0.049	1.00	
Isopropylbenzene	ND	0.0049	1.00	
p-Isopropyltoluene	ND	0.0049	1.00	
Methylene Chloride	ND	0.049	1.00	
4-Methyl-2-Pentanone	ND	0.049	1.00	
Naphthalene	ND	0.049	1.00	
n-Propylbenzene	ND	0.0049	1.00	
Styrene	ND	0.0049	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0049	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0049	1.00	
Tetrachloroethene	ND	0.0049	1.00	
Toluene	ND	0.0049	1.00	
1,2,3-Trichlorobenzene	ND	0.0099	1.00	
1,2,4-Trichlorobenzene	ND	0.0049	1.00	
1,1,1-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.049	1.00	
Trichloroethene	ND	0.0049	1.00	
1,2,3-Trichloropropane	ND	0.0049	1.00	
1,2,4-Trimethylbenzene	ND	0.0049	1.00	
Trichlorofluoromethane	ND	0.049	1.00	
1,3,5-Trimethylbenzene	ND	0.0049	1.00	
Vinyl Acetate	ND	0.049	1.00	
Vinyl Chloride	ND	0.0049	1.00	
p/m-Xylene	ND	0.0049	1.00	
o-Xylene	ND	0.0049	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0049	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.049	1.00	
Diisopropyl Ether (DIPE)	ND	0.0099	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0099	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0099	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	95	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 48 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	92	63-141	
1,2-Dichloroethane-d4	89	62-146	
Toluene-d8	100	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 49 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SV18	15-06-0698-17-A	06/04/15 09:55	Solid	GC/MS XX	06/09/15	06/11/15 08:42	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0049	1.00	
Bromobenzene	ND	0.0049	1.00	
Bromochloromethane	ND	0.0049	1.00	
Bromodichloromethane	ND	0.0049	1.00	
Bromoform	ND	0.0049	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.049	1.00	
n-Butylbenzene	ND	0.0049	1.00	
sec-Butylbenzene	ND	0.0049	1.00	
tert-Butylbenzene	ND	0.0049	1.00	
Carbon Disulfide	ND	0.049	1.00	
Carbon Tetrachloride	ND	0.0049	1.00	
Chlorobenzene	ND	0.0049	1.00	
Chloroethane	ND	0.0049	1.00	
Chloroform	ND	0.0049	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0049	1.00	
4-Chlorotoluene	ND	0.0049	1.00	
Dibromochloromethane	ND	0.0049	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0098	1.00	
1,2-Dibromoethane	ND	0.0049	1.00	
Dibromomethane	ND	0.0049	1.00	
1,2-Dichlorobenzene	ND	0.0049	1.00	
1,3-Dichlorobenzene	ND	0.0049	1.00	
1,4-Dichlorobenzene	ND	0.0049	1.00	
Dichlorodifluoromethane	ND	0.0049	1.00	
1,1-Dichloroethane	ND	0.0049	1.00	
1,2-Dichloroethane	ND	0.0049	1.00	
1,1-Dichloroethene	ND	0.0049	1.00	
c-1,2-Dichloroethene	ND	0.0049	1.00	
t-1,2-Dichloroethene	ND	0.0049	1.00	
1,2-Dichloropropane	ND	0.0049	1.00	
1,3-Dichloropropane	ND	0.0049	1.00	
2,2-Dichloropropane	ND	0.0049	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 50 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0049	1.00	
c-1,3-Dichloropropene	ND	0.0049	1.00	
t-1,3-Dichloropropene	ND	0.0049	1.00	
Ethylbenzene	ND	0.0049	1.00	
2-Hexanone	ND	0.049	1.00	
Isopropylbenzene	ND	0.0049	1.00	
p-Isopropyltoluene	ND	0.0049	1.00	
Methylene Chloride	ND	0.049	1.00	
4-Methyl-2-Pentanone	ND	0.049	1.00	
Naphthalene	ND	0.049	1.00	
n-Propylbenzene	ND	0.0049	1.00	
Styrene	ND	0.0049	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0049	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0049	1.00	
Tetrachloroethene	ND	0.0049	1.00	
Toluene	ND	0.0049	1.00	
1,2,3-Trichlorobenzene	ND	0.0098	1.00	
1,2,4-Trichlorobenzene	ND	0.0049	1.00	
1,1,1-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.049	1.00	
Trichloroethene	ND	0.0049	1.00	
1,2,3-Trichloropropane	ND	0.0049	1.00	
1,2,4-Trimethylbenzene	ND	0.0049	1.00	
Trichlorofluoromethane	ND	0.049	1.00	
1,3,5-Trimethylbenzene	ND	0.0049	1.00	
Vinyl Acetate	ND	0.049	1.00	
Vinyl Chloride	ND	0.0049	1.00	
p/m-Xylene	ND	0.0049	1.00	
o-Xylene	ND	0.0049	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0049	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.049	1.00	
Diisopropyl Ether (DIPE)	ND	0.0098	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0098	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0098	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 51 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	111	62-146	
Toluene-d8	99	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 52 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SV18	15-06-0698-18-A	06/04/15 10:21	Solid	GC/MS XX	06/09/15	06/11/15 09:09	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 53 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 54 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	106	63-141	
1,2-Dichloroethane-d4	111	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 55 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-22-SV18	15-06-0698-19-A	06/04/15 10:25	Solid	GC/MS XX	06/09/15	06/11/15 09:36	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 56 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	95	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 57 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	105	63-141	
1,2-Dichloroethane-d4	110	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 58 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-27.5-SV18	15-06-0698-20-A	06/04/15 10:28	Solid	GC/MS XX	06/09/15	06/11/15 10:03	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0052	1.00	
Bromobenzene	ND	0.0052	1.00	
Bromochloromethane	ND	0.0052	1.00	
Bromodichloromethane	ND	0.0052	1.00	
Bromoform	ND	0.0052	1.00	
Bromomethane	ND	0.026	1.00	
2-Butanone	ND	0.052	1.00	
n-Butylbenzene	ND	0.0052	1.00	
sec-Butylbenzene	ND	0.0052	1.00	
tert-Butylbenzene	ND	0.0052	1.00	
Carbon Disulfide	ND	0.052	1.00	
Carbon Tetrachloride	ND	0.0052	1.00	
Chlorobenzene	ND	0.0052	1.00	
Chloroethane	ND	0.0052	1.00	
Chloroform	ND	0.0052	1.00	
Chloromethane	ND	0.026	1.00	
2-Chlorotoluene	ND	0.0052	1.00	
4-Chlorotoluene	ND	0.0052	1.00	
Dibromochloromethane	ND	0.0052	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0052	1.00	
Dibromomethane	ND	0.0052	1.00	
1,2-Dichlorobenzene	ND	0.0052	1.00	
1,3-Dichlorobenzene	ND	0.0052	1.00	
1,4-Dichlorobenzene	ND	0.0052	1.00	
Dichlorodifluoromethane	ND	0.0052	1.00	
1,1-Dichloroethane	ND	0.0052	1.00	
1,2-Dichloroethane	ND	0.0052	1.00	
1,1-Dichloroethene	ND	0.0052	1.00	
c-1,2-Dichloroethene	ND	0.0052	1.00	
t-1,2-Dichloroethene	ND	0.0052	1.00	
1,2-Dichloropropane	ND	0.0052	1.00	
1,3-Dichloropropane	ND	0.0052	1.00	
2,2-Dichloropropane	ND	0.0052	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 59 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0052	1.00	
c-1,3-Dichloropropene	ND	0.0052	1.00	
t-1,3-Dichloropropene	ND	0.0052	1.00	
Ethylbenzene	ND	0.0052	1.00	
2-Hexanone	ND	0.052	1.00	
Isopropylbenzene	ND	0.0052	1.00	
p-Isopropyltoluene	ND	0.0052	1.00	
Methylene Chloride	ND	0.052	1.00	
4-Methyl-2-Pentanone	ND	0.052	1.00	
Naphthalene	ND	0.052	1.00	
n-Propylbenzene	ND	0.0052	1.00	
Styrene	ND	0.0052	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0052	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0052	1.00	
Tetrachloroethene	ND	0.0052	1.00	
Toluene	ND	0.0052	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0052	1.00	
1,1,1-Trichloroethane	ND	0.0052	1.00	
1,1,2-Trichloroethane	ND	0.0052	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.052	1.00	
Trichloroethene	ND	0.0052	1.00	
1,2,3-Trichloropropane	ND	0.0052	1.00	
1,2,4-Trimethylbenzene	ND	0.0052	1.00	
Trichlorofluoromethane	ND	0.052	1.00	
1,3,5-Trimethylbenzene	ND	0.0052	1.00	
Vinyl Acetate	ND	0.052	1.00	
Vinyl Chloride	ND	0.0052	1.00	
p/m-Xylene	ND	0.0052	1.00	
o-Xylene	ND	0.0052	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0052	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.052	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.26	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 60 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	108	63-141	
1,2-Dichloroethane-d4	111	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 61 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-SV19	15-06-0698-21-A	06/04/15 12:25	Solid	GC/MS XX	06/09/15	06/11/15 04:37	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 62 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 63 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	105	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 64 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SV19	15-06-0698-22-A	06/04/15 12:35	Solid	GC/MS XX	06/09/15	06/11/15 10:30	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0051	1.00	
Bromobenzene	ND	0.0051	1.00	
Bromochloromethane	ND	0.0051	1.00	
Bromodichloromethane	ND	0.0051	1.00	
Bromoform	ND	0.0051	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.051	1.00	
n-Butylbenzene	ND	0.0051	1.00	
sec-Butylbenzene	ND	0.0051	1.00	
tert-Butylbenzene	ND	0.0051	1.00	
Carbon Disulfide	ND	0.051	1.00	
Carbon Tetrachloride	ND	0.0051	1.00	
Chlorobenzene	ND	0.0051	1.00	
Chloroethane	ND	0.0051	1.00	
Chloroform	ND	0.0051	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0051	1.00	
4-Chlorotoluene	ND	0.0051	1.00	
Dibromochloromethane	ND	0.0051	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0051	1.00	
Dibromomethane	ND	0.0051	1.00	
1,2-Dichlorobenzene	ND	0.0051	1.00	
1,3-Dichlorobenzene	ND	0.0051	1.00	
1,4-Dichlorobenzene	ND	0.0051	1.00	
Dichlorodifluoromethane	ND	0.0051	1.00	
1,1-Dichloroethane	ND	0.0051	1.00	
1,2-Dichloroethane	ND	0.0051	1.00	
1,1-Dichloroethene	ND	0.0051	1.00	
c-1,2-Dichloroethene	ND	0.0051	1.00	
t-1,2-Dichloroethene	ND	0.0051	1.00	
1,2-Dichloropropane	ND	0.0051	1.00	
1,3-Dichloropropane	ND	0.0051	1.00	
2,2-Dichloropropane	ND	0.0051	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 65 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0051	1.00	
c-1,3-Dichloropropene	ND	0.0051	1.00	
t-1,3-Dichloropropene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
2-Hexanone	ND	0.051	1.00	
Isopropylbenzene	ND	0.0051	1.00	
p-Isopropyltoluene	ND	0.0051	1.00	
Methylene Chloride	ND	0.051	1.00	
4-Methyl-2-Pentanone	ND	0.051	1.00	
Naphthalene	ND	0.051	1.00	
n-Propylbenzene	ND	0.0051	1.00	
Styrene	ND	0.0051	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0051	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0051	1.00	
Tetrachloroethene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0051	1.00	
1,1,1-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.051	1.00	
Trichloroethene	ND	0.0051	1.00	
1,2,3-Trichloropropane	ND	0.0051	1.00	
1,2,4-Trimethylbenzene	ND	0.0051	1.00	
Trichlorofluoromethane	ND	0.051	1.00	
1,3,5-Trimethylbenzene	ND	0.0051	1.00	
Vinyl Acetate	ND	0.051	1.00	
Vinyl Chloride	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 66 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	107	63-141	
1,2-Dichloroethane-d4	115	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 67 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SV19	15-06-0698-23-A	06/04/15 12:45	Solid	GC/MS BB	06/09/15	06/11/15 09:25	150610L057

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0051	1.00	
Bromobenzene	ND	0.0051	1.00	
Bromochloromethane	ND	0.0051	1.00	
Bromodichloromethane	ND	0.0051	1.00	
Bromoform	ND	0.0051	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.051	1.00	
n-Butylbenzene	ND	0.0051	1.00	
sec-Butylbenzene	ND	0.0051	1.00	
tert-Butylbenzene	ND	0.0051	1.00	
Carbon Disulfide	ND	0.051	1.00	
Carbon Tetrachloride	ND	0.0051	1.00	
Chlorobenzene	ND	0.0051	1.00	
Chloroethane	ND	0.0051	1.00	
Chloroform	ND	0.0051	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0051	1.00	
4-Chlorotoluene	ND	0.0051	1.00	
Dibromochloromethane	ND	0.0051	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0051	1.00	
Dibromomethane	ND	0.0051	1.00	
1,2-Dichlorobenzene	ND	0.0051	1.00	
1,3-Dichlorobenzene	ND	0.0051	1.00	
1,4-Dichlorobenzene	ND	0.0051	1.00	
Dichlorodifluoromethane	ND	0.0051	1.00	
1,1-Dichloroethane	ND	0.0051	1.00	
1,2-Dichloroethane	ND	0.0051	1.00	
1,1-Dichloroethene	ND	0.0051	1.00	
c-1,2-Dichloroethene	ND	0.0051	1.00	
t-1,2-Dichloroethene	ND	0.0051	1.00	
1,2-Dichloropropane	ND	0.0051	1.00	
1,3-Dichloropropane	ND	0.0051	1.00	
2,2-Dichloropropane	ND	0.0051	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 68 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0051	1.00	
c-1,3-Dichloropropene	ND	0.0051	1.00	
t-1,3-Dichloropropene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
2-Hexanone	ND	0.051	1.00	
Isopropylbenzene	ND	0.0051	1.00	
p-Isopropyltoluene	ND	0.0051	1.00	
Methylene Chloride	ND	0.051	1.00	
4-Methyl-2-Pentanone	ND	0.051	1.00	
Naphthalene	ND	0.051	1.00	
n-Propylbenzene	ND	0.0051	1.00	
Styrene	ND	0.0051	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0051	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0051	1.00	
Tetrachloroethene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0051	1.00	
1,1,1-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.051	1.00	
Trichloroethene	ND	0.0051	1.00	
1,2,3-Trichloropropane	ND	0.0051	1.00	
1,2,4-Trimethylbenzene	ND	0.0051	1.00	
Trichlorofluoromethane	ND	0.051	1.00	
1,3,5-Trimethylbenzene	ND	0.0051	1.00	
Vinyl Acetate	ND	0.051	1.00	
Vinyl Chloride	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 69 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	108	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 70 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-17.5-SV19	15-06-0698-24-A	06/04/15 13:00	Solid	GC/MS BB	06/09/15	06/11/15 09:54	150610L057

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0052	1.00	
Bromobenzene	ND	0.0052	1.00	
Bromochloromethane	ND	0.0052	1.00	
Bromodichloromethane	ND	0.0052	1.00	
Bromoform	ND	0.0052	1.00	
Bromomethane	ND	0.026	1.00	
2-Butanone	ND	0.052	1.00	
n-Butylbenzene	ND	0.0052	1.00	
sec-Butylbenzene	ND	0.0052	1.00	
tert-Butylbenzene	ND	0.0052	1.00	
Carbon Disulfide	ND	0.052	1.00	
Carbon Tetrachloride	ND	0.0052	1.00	
Chlorobenzene	ND	0.0052	1.00	
Chloroethane	ND	0.0052	1.00	
Chloroform	ND	0.0052	1.00	
Chloromethane	ND	0.026	1.00	
2-Chlorotoluene	ND	0.0052	1.00	
4-Chlorotoluene	ND	0.0052	1.00	
Dibromochloromethane	ND	0.0052	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0052	1.00	
Dibromomethane	ND	0.0052	1.00	
1,2-Dichlorobenzene	ND	0.0052	1.00	
1,3-Dichlorobenzene	ND	0.0052	1.00	
1,4-Dichlorobenzene	ND	0.0052	1.00	
Dichlorodifluoromethane	ND	0.0052	1.00	
1,1-Dichloroethane	ND	0.0052	1.00	
1,2-Dichloroethane	ND	0.0052	1.00	
1,1-Dichloroethene	ND	0.0052	1.00	
c-1,2-Dichloroethene	ND	0.0052	1.00	
t-1,2-Dichloroethene	ND	0.0052	1.00	
1,2-Dichloropropane	ND	0.0052	1.00	
1,3-Dichloropropane	ND	0.0052	1.00	
2,2-Dichloropropane	ND	0.0052	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 71 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0052	1.00	
c-1,3-Dichloropropene	ND	0.0052	1.00	
t-1,3-Dichloropropene	ND	0.0052	1.00	
Ethylbenzene	ND	0.0052	1.00	
2-Hexanone	ND	0.052	1.00	
Isopropylbenzene	ND	0.0052	1.00	
p-Isopropyltoluene	ND	0.0052	1.00	
Methylene Chloride	ND	0.052	1.00	
4-Methyl-2-Pentanone	ND	0.052	1.00	
Naphthalene	ND	0.052	1.00	
n-Propylbenzene	ND	0.0052	1.00	
Styrene	ND	0.0052	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0052	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0052	1.00	
Tetrachloroethene	ND	0.0052	1.00	
Toluene	ND	0.0052	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0052	1.00	
1,1,1-Trichloroethane	ND	0.0052	1.00	
1,1,2-Trichloroethane	ND	0.0052	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.052	1.00	
Trichloroethene	ND	0.0052	1.00	
1,2,3-Trichloropropane	ND	0.0052	1.00	
1,2,4-Trimethylbenzene	ND	0.0052	1.00	
Trichlorofluoromethane	ND	0.052	1.00	
1,3,5-Trimethylbenzene	ND	0.0052	1.00	
Vinyl Acetate	ND	0.052	1.00	
Vinyl Chloride	ND	0.0052	1.00	
p/m-Xylene	ND	0.0052	1.00	
o-Xylene	ND	0.0052	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0052	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.052	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.26	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 72 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	102	62-146	
Toluene-d8	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 73 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-25-SV19	15-06-0698-25-A	06/04/15 13:05	Solid	GC/MS Q	06/09/15	06/12/15 21:05	150612L028

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0051	1.00	
Bromobenzene	ND	0.0051	1.00	
Bromochloromethane	ND	0.0051	1.00	
Bromodichloromethane	ND	0.0051	1.00	
Bromoform	ND	0.0051	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.051	1.00	
n-Butylbenzene	ND	0.0051	1.00	
sec-Butylbenzene	ND	0.0051	1.00	
tert-Butylbenzene	ND	0.0051	1.00	
Carbon Disulfide	ND	0.051	1.00	
Carbon Tetrachloride	ND	0.0051	1.00	
Chlorobenzene	ND	0.0051	1.00	
Chloroethane	ND	0.0051	1.00	
Chloroform	ND	0.0051	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0051	1.00	
4-Chlorotoluene	ND	0.0051	1.00	
Dibromochloromethane	ND	0.0051	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0051	1.00	
Dibromomethane	ND	0.0051	1.00	
1,2-Dichlorobenzene	ND	0.0051	1.00	
1,3-Dichlorobenzene	ND	0.0051	1.00	
1,4-Dichlorobenzene	ND	0.0051	1.00	
Dichlorodifluoromethane	ND	0.0051	1.00	
1,1-Dichloroethane	ND	0.0051	1.00	
1,2-Dichloroethane	ND	0.0051	1.00	
1,1-Dichloroethene	ND	0.0051	1.00	
c-1,2-Dichloroethene	ND	0.0051	1.00	
t-1,2-Dichloroethene	ND	0.0051	1.00	
1,2-Dichloropropane	ND	0.0051	1.00	
1,3-Dichloropropane	ND	0.0051	1.00	
2,2-Dichloropropane	ND	0.0051	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 74 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0051	1.00	
c-1,3-Dichloropropene	ND	0.0051	1.00	
t-1,3-Dichloropropene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
2-Hexanone	ND	0.051	1.00	
Isopropylbenzene	ND	0.0051	1.00	
p-Isopropyltoluene	ND	0.0051	1.00	
Methylene Chloride	ND	0.051	1.00	
4-Methyl-2-Pentanone	ND	0.051	1.00	
Naphthalene	ND	0.051	1.00	
n-Propylbenzene	ND	0.0051	1.00	
Styrene	ND	0.0051	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0051	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0051	1.00	
Tetrachloroethene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0051	1.00	
1,1,1-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.051	1.00	
Trichloroethene	ND	0.0051	1.00	
1,2,3-Trichloropropane	ND	0.0051	1.00	
1,2,4-Trimethylbenzene	ND	0.0051	1.00	
Trichlorofluoromethane	ND	0.051	1.00	
1,3,5-Trimethylbenzene	ND	0.0051	1.00	
Vinyl Acetate	ND	0.051	1.00	
Vinyl Chloride	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 75 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	97	63-141	
1,2-Dichloroethane-d4	92	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 76 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-27.5-SV19	15-06-0698-26-A	06/04/15 13:10	Solid	GC/MS BB	06/09/15	06/11/15 10:51	150610L057

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0048	1.00	
Bromobenzene	ND	0.0048	1.00	
Bromochloromethane	ND	0.0048	1.00	
Bromodichloromethane	ND	0.0048	1.00	
Bromoform	ND	0.0048	1.00	
Bromomethane	ND	0.024	1.00	
2-Butanone	ND	0.048	1.00	
n-Butylbenzene	ND	0.0048	1.00	
sec-Butylbenzene	ND	0.0048	1.00	
tert-Butylbenzene	ND	0.0048	1.00	
Carbon Disulfide	ND	0.048	1.00	
Carbon Tetrachloride	ND	0.0048	1.00	
Chlorobenzene	ND	0.0048	1.00	
Chloroethane	ND	0.0048	1.00	
Chloroform	ND	0.0048	1.00	
Chloromethane	ND	0.024	1.00	
2-Chlorotoluene	ND	0.0048	1.00	
4-Chlorotoluene	ND	0.0048	1.00	
Dibromochloromethane	ND	0.0048	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0096	1.00	
1,2-Dibromoethane	ND	0.0048	1.00	
Dibromomethane	ND	0.0048	1.00	
1,2-Dichlorobenzene	ND	0.0048	1.00	
1,3-Dichlorobenzene	ND	0.0048	1.00	
1,4-Dichlorobenzene	ND	0.0048	1.00	
Dichlorodifluoromethane	ND	0.0048	1.00	
1,1-Dichloroethane	ND	0.0048	1.00	
1,2-Dichloroethane	ND	0.0048	1.00	
1,1-Dichloroethene	ND	0.0048	1.00	
c-1,2-Dichloroethene	ND	0.0048	1.00	
t-1,2-Dichloroethene	ND	0.0048	1.00	
1,2-Dichloropropane	ND	0.0048	1.00	
1,3-Dichloropropane	ND	0.0048	1.00	
2,2-Dichloropropane	ND	0.0048	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 77 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0048	1.00	
c-1,3-Dichloropropene	ND	0.0048	1.00	
t-1,3-Dichloropropene	ND	0.0048	1.00	
Ethylbenzene	ND	0.0048	1.00	
2-Hexanone	ND	0.048	1.00	
Isopropylbenzene	ND	0.0048	1.00	
p-Isopropyltoluene	ND	0.0048	1.00	
Methylene Chloride	ND	0.048	1.00	
4-Methyl-2-Pentanone	ND	0.048	1.00	
Naphthalene	ND	0.048	1.00	
n-Propylbenzene	ND	0.0048	1.00	
Styrene	ND	0.0048	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0048	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0048	1.00	
Tetrachloroethene	ND	0.0048	1.00	
Toluene	ND	0.0048	1.00	
1,2,3-Trichlorobenzene	ND	0.0096	1.00	
1,2,4-Trichlorobenzene	ND	0.0048	1.00	
1,1,1-Trichloroethane	ND	0.0048	1.00	
1,1,2-Trichloroethane	ND	0.0048	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.048	1.00	
Trichloroethene	ND	0.0048	1.00	
1,2,3-Trichloropropane	ND	0.0048	1.00	
1,2,4-Trimethylbenzene	ND	0.0048	1.00	
Trichlorofluoromethane	ND	0.048	1.00	
1,3,5-Trimethylbenzene	ND	0.0048	1.00	
Vinyl Acetate	ND	0.048	1.00	
Vinyl Chloride	ND	0.0048	1.00	
p/m-Xylene	ND	0.0048	1.00	
o-Xylene	ND	0.0048	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0048	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.048	1.00	
Diisopropyl Ether (DIPE)	ND	0.0096	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0096	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0096	1.00	
Ethanol	ND	0.24	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 78 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	98	80-120	


Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 79 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-SV20	15-06-0698-27-A	06/04/15 14:10	Solid	GC/MS BB	06/09/15	06/11/15 11:20	150610L057

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0051	1.00	
Bromobenzene	ND	0.0051	1.00	
Bromochloromethane	ND	0.0051	1.00	
Bromodichloromethane	ND	0.0051	1.00	
Bromoform	ND	0.0051	1.00	
Bromomethane	ND	0.026	1.00	
2-Butanone	ND	0.051	1.00	
n-Butylbenzene	ND	0.0051	1.00	
sec-Butylbenzene	ND	0.0051	1.00	
tert-Butylbenzene	ND	0.0051	1.00	
Carbon Disulfide	ND	0.051	1.00	
Carbon Tetrachloride	ND	0.0051	1.00	
Chlorobenzene	ND	0.0051	1.00	
Chloroethane	ND	0.0051	1.00	
Chloroform	ND	0.0051	1.00	
Chloromethane	ND	0.026	1.00	
2-Chlorotoluene	ND	0.0051	1.00	
4-Chlorotoluene	ND	0.0051	1.00	
Dibromochloromethane	ND	0.0051	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0051	1.00	
Dibromomethane	ND	0.0051	1.00	
1,2-Dichlorobenzene	ND	0.0051	1.00	
1,3-Dichlorobenzene	ND	0.0051	1.00	
1,4-Dichlorobenzene	ND	0.0051	1.00	
Dichlorodifluoromethane	ND	0.0051	1.00	
1,1-Dichloroethane	ND	0.0051	1.00	
1,2-Dichloroethane	ND	0.0051	1.00	
1,1-Dichloroethene	ND	0.0051	1.00	
c-1,2-Dichloroethene	ND	0.0051	1.00	
t-1,2-Dichloroethene	ND	0.0051	1.00	
1,2-Dichloropropane	ND	0.0051	1.00	
1,3-Dichloropropane	ND	0.0051	1.00	
2,2-Dichloropropane	ND	0.0051	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 80 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0051	1.00	
c-1,3-Dichloropropene	ND	0.0051	1.00	
t-1,3-Dichloropropene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
2-Hexanone	ND	0.051	1.00	
Isopropylbenzene	ND	0.0051	1.00	
p-Isopropyltoluene	ND	0.0051	1.00	
Methylene Chloride	ND	0.051	1.00	
4-Methyl-2-Pentanone	ND	0.051	1.00	
Naphthalene	ND	0.051	1.00	
n-Propylbenzene	ND	0.0051	1.00	
Styrene	ND	0.0051	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0051	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0051	1.00	
Tetrachloroethene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0051	1.00	
1,1,1-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.051	1.00	
Trichloroethene	ND	0.0051	1.00	
1,2,3-Trichloropropane	ND	0.0051	1.00	
1,2,4-Trimethylbenzene	ND	0.0051	1.00	
Trichlorofluoromethane	ND	0.051	1.00	
1,3,5-Trimethylbenzene	ND	0.0051	1.00	
Vinyl Acetate	ND	0.051	1.00	
Vinyl Chloride	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.26	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	98	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 81 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 82 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-9-SV20	15-06-0698-28-A	06/04/15 14:20	Solid	GC/MS BB	06/09/15	06/11/15 11:48	150610L057

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0049	1.00	
Bromobenzene	ND	0.0049	1.00	
Bromochloromethane	ND	0.0049	1.00	
Bromodichloromethane	ND	0.0049	1.00	
Bromoform	ND	0.0049	1.00	
Bromomethane	ND	0.024	1.00	
2-Butanone	ND	0.049	1.00	
n-Butylbenzene	ND	0.0049	1.00	
sec-Butylbenzene	ND	0.0049	1.00	
tert-Butylbenzene	ND	0.0049	1.00	
Carbon Disulfide	ND	0.049	1.00	
Carbon Tetrachloride	ND	0.0049	1.00	
Chlorobenzene	ND	0.0049	1.00	
Chloroethane	ND	0.0049	1.00	
Chloroform	ND	0.0049	1.00	
Chloromethane	ND	0.024	1.00	
2-Chlorotoluene	ND	0.0049	1.00	
4-Chlorotoluene	ND	0.0049	1.00	
Dibromochloromethane	ND	0.0049	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0097	1.00	
1,2-Dibromoethane	ND	0.0049	1.00	
Dibromomethane	ND	0.0049	1.00	
1,2-Dichlorobenzene	ND	0.0049	1.00	
1,3-Dichlorobenzene	ND	0.0049	1.00	
1,4-Dichlorobenzene	ND	0.0049	1.00	
Dichlorodifluoromethane	ND	0.0049	1.00	
1,1-Dichloroethane	ND	0.0049	1.00	
1,2-Dichloroethane	ND	0.0049	1.00	
1,1-Dichloroethene	ND	0.0049	1.00	
c-1,2-Dichloroethene	ND	0.0049	1.00	
t-1,2-Dichloroethene	ND	0.0049	1.00	
1,2-Dichloropropane	ND	0.0049	1.00	
1,3-Dichloropropane	ND	0.0049	1.00	
2,2-Dichloropropane	ND	0.0049	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 83 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0049	1.00	
c-1,3-Dichloropropene	ND	0.0049	1.00	
t-1,3-Dichloropropene	ND	0.0049	1.00	
Ethylbenzene	ND	0.0049	1.00	
2-Hexanone	ND	0.049	1.00	
Isopropylbenzene	ND	0.0049	1.00	
p-Isopropyltoluene	ND	0.0049	1.00	
Methylene Chloride	ND	0.049	1.00	
4-Methyl-2-Pentanone	ND	0.049	1.00	
Naphthalene	ND	0.049	1.00	
n-Propylbenzene	ND	0.0049	1.00	
Styrene	ND	0.0049	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0049	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0049	1.00	
Tetrachloroethene	ND	0.0049	1.00	
Toluene	ND	0.0049	1.00	
1,2,3-Trichlorobenzene	ND	0.0097	1.00	
1,2,4-Trichlorobenzene	ND	0.0049	1.00	
1,1,1-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.049	1.00	
Trichloroethene	ND	0.0049	1.00	
1,2,3-Trichloropropane	ND	0.0049	1.00	
1,2,4-Trimethylbenzene	ND	0.0049	1.00	
Trichlorofluoromethane	ND	0.049	1.00	
1,3,5-Trimethylbenzene	ND	0.0049	1.00	
Vinyl Acetate	ND	0.049	1.00	
Vinyl Chloride	ND	0.0049	1.00	
p/m-Xylene	ND	0.0049	1.00	
o-Xylene	ND	0.0049	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0049	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.049	1.00	
Diisopropyl Ether (DIPE)	ND	0.0097	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0097	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0097	1.00	
Ethanol	ND	0.24	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 84 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 85 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-14-SV20	15-06-0698-29-A	06/04/15 14:25	Solid	GC/MS BB	06/09/15	06/11/15 12:17	150610L057

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0053	1.00	
Bromobenzene	ND	0.0053	1.00	
Bromochloromethane	ND	0.0053	1.00	
Bromodichloromethane	ND	0.0053	1.00	
Bromoform	ND	0.0053	1.00	
Bromomethane	ND	0.026	1.00	
2-Butanone	ND	0.053	1.00	
n-Butylbenzene	ND	0.0053	1.00	
sec-Butylbenzene	ND	0.0053	1.00	
tert-Butylbenzene	ND	0.0053	1.00	
Carbon Disulfide	ND	0.053	1.00	
Carbon Tetrachloride	ND	0.0053	1.00	
Chlorobenzene	ND	0.0053	1.00	
Chloroethane	ND	0.0053	1.00	
Chloroform	ND	0.0053	1.00	
Chloromethane	ND	0.026	1.00	
2-Chlorotoluene	ND	0.0053	1.00	
4-Chlorotoluene	ND	0.0053	1.00	
Dibromochloromethane	ND	0.0053	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.011	1.00	
1,2-Dibromoethane	ND	0.0053	1.00	
Dibromomethane	ND	0.0053	1.00	
1,2-Dichlorobenzene	ND	0.0053	1.00	
1,3-Dichlorobenzene	ND	0.0053	1.00	
1,4-Dichlorobenzene	ND	0.0053	1.00	
Dichlorodifluoromethane	ND	0.0053	1.00	
1,1-Dichloroethane	ND	0.0053	1.00	
1,2-Dichloroethane	ND	0.0053	1.00	
1,1-Dichloroethene	ND	0.0053	1.00	
c-1,2-Dichloroethene	ND	0.0053	1.00	
t-1,2-Dichloroethene	ND	0.0053	1.00	
1,2-Dichloropropane	ND	0.0053	1.00	
1,3-Dichloropropane	ND	0.0053	1.00	
2,2-Dichloropropane	ND	0.0053	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 86 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0053	1.00	
c-1,3-Dichloropropene	ND	0.0053	1.00	
t-1,3-Dichloropropene	ND	0.0053	1.00	
Ethylbenzene	ND	0.0053	1.00	
2-Hexanone	ND	0.053	1.00	
Isopropylbenzene	ND	0.0053	1.00	
p-Isopropyltoluene	ND	0.0053	1.00	
Methylene Chloride	ND	0.053	1.00	
4-Methyl-2-Pentanone	ND	0.053	1.00	
Naphthalene	ND	0.053	1.00	
n-Propylbenzene	ND	0.0053	1.00	
Styrene	ND	0.0053	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0053	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0053	1.00	
Tetrachloroethene	ND	0.0053	1.00	
Toluene	ND	0.0053	1.00	
1,2,3-Trichlorobenzene	ND	0.011	1.00	
1,2,4-Trichlorobenzene	ND	0.0053	1.00	
1,1,1-Trichloroethane	ND	0.0053	1.00	
1,1,2-Trichloroethane	ND	0.0053	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.053	1.00	
Trichloroethene	ND	0.0053	1.00	
1,2,3-Trichloropropane	ND	0.0053	1.00	
1,2,4-Trimethylbenzene	ND	0.0053	1.00	
Trichlorofluoromethane	ND	0.053	1.00	
1,3,5-Trimethylbenzene	ND	0.0053	1.00	
Vinyl Acetate	ND	0.053	1.00	
Vinyl Chloride	ND	0.0053	1.00	
p/m-Xylene	ND	0.0053	1.00	
o-Xylene	ND	0.0053	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0053	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.053	1.00	
Diisopropyl Ether (DIPE)	ND	0.011	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.011	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.011	1.00	
Ethanol	ND	0.26	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 87 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 88 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-20-SV20	15-06-0698-30-A	06/04/15 14:35	Solid	GC/MS BB	06/09/15	06/11/15 12:45	150610L057

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0049	1.00	
Bromobenzene	ND	0.0049	1.00	
Bromochloromethane	ND	0.0049	1.00	
Bromodichloromethane	ND	0.0049	1.00	
Bromoform	ND	0.0049	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.049	1.00	
n-Butylbenzene	ND	0.0049	1.00	
sec-Butylbenzene	ND	0.0049	1.00	
tert-Butylbenzene	ND	0.0049	1.00	
Carbon Disulfide	ND	0.049	1.00	
Carbon Tetrachloride	ND	0.0049	1.00	
Chlorobenzene	ND	0.0049	1.00	
Chloroethane	ND	0.0049	1.00	
Chloroform	ND	0.0049	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0049	1.00	
4-Chlorotoluene	ND	0.0049	1.00	
Dibromochloromethane	ND	0.0049	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.0098	1.00	
1,2-Dibromoethane	ND	0.0049	1.00	
Dibromomethane	ND	0.0049	1.00	
1,2-Dichlorobenzene	ND	0.0049	1.00	
1,3-Dichlorobenzene	ND	0.0049	1.00	
1,4-Dichlorobenzene	ND	0.0049	1.00	
Dichlorodifluoromethane	ND	0.0049	1.00	
1,1-Dichloroethane	ND	0.0049	1.00	
1,2-Dichloroethane	ND	0.0049	1.00	
1,1-Dichloroethene	ND	0.0049	1.00	
c-1,2-Dichloroethene	ND	0.0049	1.00	
t-1,2-Dichloroethene	ND	0.0049	1.00	
1,2-Dichloropropane	ND	0.0049	1.00	
1,3-Dichloropropane	ND	0.0049	1.00	
2,2-Dichloropropane	ND	0.0049	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 89 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0049	1.00	
c-1,3-Dichloropropene	ND	0.0049	1.00	
t-1,3-Dichloropropene	ND	0.0049	1.00	
Ethylbenzene	ND	0.0049	1.00	
2-Hexanone	ND	0.049	1.00	
Isopropylbenzene	ND	0.0049	1.00	
p-Isopropyltoluene	ND	0.0049	1.00	
Methylene Chloride	ND	0.049	1.00	
4-Methyl-2-Pentanone	ND	0.049	1.00	
Naphthalene	ND	0.049	1.00	
n-Propylbenzene	ND	0.0049	1.00	
Styrene	ND	0.0049	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0049	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0049	1.00	
Tetrachloroethene	ND	0.0049	1.00	
Toluene	ND	0.0049	1.00	
1,2,3-Trichlorobenzene	ND	0.0098	1.00	
1,2,4-Trichlorobenzene	ND	0.0049	1.00	
1,1,1-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloroethane	ND	0.0049	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.049	1.00	
Trichloroethene	ND	0.0049	1.00	
1,2,3-Trichloropropane	ND	0.0049	1.00	
1,2,4-Trimethylbenzene	ND	0.0049	1.00	
Trichlorofluoromethane	ND	0.049	1.00	
1,3,5-Trimethylbenzene	ND	0.0049	1.00	
Vinyl Acetate	ND	0.049	1.00	
Vinyl Chloride	ND	0.0049	1.00	
p/m-Xylene	ND	0.0049	1.00	
o-Xylene	ND	0.0049	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0049	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.049	1.00	
Diisopropyl Ether (DIPE)	ND	0.0098	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0098	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0098	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	98	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 90 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	99	80-120	


Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 91 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-25-SV20	15-06-0698-31-A	06/04/15 14:40	Solid	GC/MS BB	06/09/15	06/11/15 13:13	150610L057

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0051	1.00	
Bromobenzene	ND	0.0051	1.00	
Bromochloromethane	ND	0.0051	1.00	
Bromodichloromethane	ND	0.0051	1.00	
Bromoform	ND	0.0051	1.00	
Bromomethane	ND	0.026	1.00	
2-Butanone	ND	0.051	1.00	
n-Butylbenzene	ND	0.0051	1.00	
sec-Butylbenzene	ND	0.0051	1.00	
tert-Butylbenzene	ND	0.0051	1.00	
Carbon Disulfide	ND	0.051	1.00	
Carbon Tetrachloride	ND	0.0051	1.00	
Chlorobenzene	ND	0.0051	1.00	
Chloroethane	ND	0.0051	1.00	
Chloroform	ND	0.0051	1.00	
Chloromethane	ND	0.026	1.00	
2-Chlorotoluene	ND	0.0051	1.00	
4-Chlorotoluene	ND	0.0051	1.00	
Dibromochloromethane	ND	0.0051	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0051	1.00	
Dibromomethane	ND	0.0051	1.00	
1,2-Dichlorobenzene	ND	0.0051	1.00	
1,3-Dichlorobenzene	ND	0.0051	1.00	
1,4-Dichlorobenzene	ND	0.0051	1.00	
Dichlorodifluoromethane	ND	0.0051	1.00	
1,1-Dichloroethane	ND	0.0051	1.00	
1,2-Dichloroethane	ND	0.0051	1.00	
1,1-Dichloroethene	ND	0.0051	1.00	
c-1,2-Dichloroethene	ND	0.0051	1.00	
t-1,2-Dichloroethene	ND	0.0051	1.00	
1,2-Dichloropropane	ND	0.0051	1.00	
1,3-Dichloropropane	ND	0.0051	1.00	
2,2-Dichloropropane	ND	0.0051	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 92 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0051	1.00	
c-1,3-Dichloropropene	ND	0.0051	1.00	
t-1,3-Dichloropropene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
2-Hexanone	ND	0.051	1.00	
Isopropylbenzene	ND	0.0051	1.00	
p-Isopropyltoluene	ND	0.0051	1.00	
Methylene Chloride	ND	0.051	1.00	
4-Methyl-2-Pentanone	ND	0.051	1.00	
Naphthalene	ND	0.051	1.00	
n-Propylbenzene	ND	0.0051	1.00	
Styrene	ND	0.0051	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0051	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0051	1.00	
Tetrachloroethene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0051	1.00	
1,1,1-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.051	1.00	
Trichloroethene	ND	0.0051	1.00	
1,2,3-Trichloropropane	ND	0.0051	1.00	
1,2,4-Trimethylbenzene	ND	0.0051	1.00	
Trichlorofluoromethane	ND	0.051	1.00	
1,3,5-Trimethylbenzene	ND	0.0051	1.00	
Vinyl Acetate	ND	0.051	1.00	
Vinyl Chloride	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.26	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	99	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 93 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	99	80-120	


Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 94 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-25-SV17	15-06-0698-32-A	06/04/15 15:00	Solid	GC/MS Q	06/09/15	06/12/15 06:16	150611L030

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0051	1.00	
Bromobenzene	ND	0.0051	1.00	
Bromochloromethane	ND	0.0051	1.00	
Bromodichloromethane	ND	0.0051	1.00	
Bromoform	ND	0.0051	1.00	
Bromomethane	ND	0.026	1.00	
2-Butanone	ND	0.051	1.00	
n-Butylbenzene	ND	0.0051	1.00	
sec-Butylbenzene	ND	0.0051	1.00	
tert-Butylbenzene	ND	0.0051	1.00	
Carbon Disulfide	ND	0.051	1.00	
Carbon Tetrachloride	ND	0.0051	1.00	
Chlorobenzene	ND	0.0051	1.00	
Chloroethane	ND	0.0051	1.00	
Chloroform	ND	0.0051	1.00	
Chloromethane	ND	0.026	1.00	
2-Chlorotoluene	ND	0.0051	1.00	
4-Chlorotoluene	ND	0.0051	1.00	
Dibromochloromethane	ND	0.0051	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0051	1.00	
Dibromomethane	ND	0.0051	1.00	
1,2-Dichlorobenzene	ND	0.0051	1.00	
1,3-Dichlorobenzene	ND	0.0051	1.00	
1,4-Dichlorobenzene	ND	0.0051	1.00	
Dichlorodifluoromethane	ND	0.0051	1.00	
1,1-Dichloroethane	ND	0.0051	1.00	
1,2-Dichloroethane	ND	0.0051	1.00	
1,1-Dichloroethene	ND	0.0051	1.00	
c-1,2-Dichloroethene	ND	0.0051	1.00	
t-1,2-Dichloroethene	ND	0.0051	1.00	
1,2-Dichloropropane	ND	0.0051	1.00	
1,3-Dichloropropane	ND	0.0051	1.00	
2,2-Dichloropropane	ND	0.0051	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 95 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0051	1.00	
c-1,3-Dichloropropene	ND	0.0051	1.00	
t-1,3-Dichloropropene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
2-Hexanone	ND	0.051	1.00	
Isopropylbenzene	ND	0.0051	1.00	
p-Isopropyltoluene	ND	0.0051	1.00	
Methylene Chloride	ND	0.051	1.00	
4-Methyl-2-Pentanone	ND	0.051	1.00	
Naphthalene	ND	0.051	1.00	
n-Propylbenzene	ND	0.0051	1.00	
Styrene	ND	0.0051	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0051	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0051	1.00	
Tetrachloroethene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0051	1.00	
1,1,1-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloroethane	ND	0.0051	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.051	1.00	
Trichloroethene	ND	0.0051	1.00	
1,2,3-Trichloropropane	ND	0.0051	1.00	
1,2,4-Trimethylbenzene	ND	0.0051	1.00	
Trichlorofluoromethane	ND	0.051	1.00	
1,3,5-Trimethylbenzene	ND	0.0051	1.00	
Vinyl Acetate	ND	0.051	1.00	
Vinyl Chloride	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.26	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 96 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	91	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 97 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-29.5-SV17	15-06-0698-33-A	06/04/15 15:02	Solid	GC/MS Q	06/09/15	06/12/15 06:42	150611L030

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.13	1.00	
Benzene	ND	0.0052	1.00	
Bromobenzene	ND	0.0052	1.00	
Bromochloromethane	ND	0.0052	1.00	
Bromodichloromethane	ND	0.0052	1.00	
Bromoform	ND	0.0052	1.00	
Bromomethane	ND	0.026	1.00	
2-Butanone	ND	0.052	1.00	
n-Butylbenzene	ND	0.0052	1.00	
sec-Butylbenzene	ND	0.0052	1.00	
tert-Butylbenzene	ND	0.0052	1.00	
Carbon Disulfide	ND	0.052	1.00	
Carbon Tetrachloride	ND	0.0052	1.00	
Chlorobenzene	ND	0.0052	1.00	
Chloroethane	ND	0.0052	1.00	
Chloroform	ND	0.0052	1.00	
Chloromethane	ND	0.026	1.00	
2-Chlorotoluene	ND	0.0052	1.00	
4-Chlorotoluene	ND	0.0052	1.00	
Dibromochloromethane	ND	0.0052	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0052	1.00	
Dibromomethane	ND	0.0052	1.00	
1,2-Dichlorobenzene	ND	0.0052	1.00	
1,3-Dichlorobenzene	ND	0.0052	1.00	
1,4-Dichlorobenzene	ND	0.0052	1.00	
Dichlorodifluoromethane	ND	0.0052	1.00	
1,1-Dichloroethane	ND	0.0052	1.00	
1,2-Dichloroethane	ND	0.0052	1.00	
1,1-Dichloroethene	ND	0.0052	1.00	
c-1,2-Dichloroethene	ND	0.0052	1.00	
t-1,2-Dichloroethene	ND	0.0052	1.00	
1,2-Dichloropropane	ND	0.0052	1.00	
1,3-Dichloropropane	ND	0.0052	1.00	
2,2-Dichloropropane	ND	0.0052	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 98 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0052	1.00	
c-1,3-Dichloropropene	ND	0.0052	1.00	
t-1,3-Dichloropropene	ND	0.0052	1.00	
Ethylbenzene	ND	0.0052	1.00	
2-Hexanone	ND	0.052	1.00	
Isopropylbenzene	ND	0.0052	1.00	
p-Isopropyltoluene	ND	0.0052	1.00	
Methylene Chloride	ND	0.052	1.00	
4-Methyl-2-Pentanone	ND	0.052	1.00	
Naphthalene	ND	0.052	1.00	
n-Propylbenzene	ND	0.0052	1.00	
Styrene	ND	0.0052	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0052	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0052	1.00	
Tetrachloroethene	ND	0.0052	1.00	
Toluene	ND	0.0052	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0052	1.00	
1,1,1-Trichloroethane	ND	0.0052	1.00	
1,1,2-Trichloroethane	ND	0.0052	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.052	1.00	
Trichloroethene	ND	0.0052	1.00	
1,2,3-Trichloropropane	ND	0.0052	1.00	
1,2,4-Trimethylbenzene	ND	0.0052	1.00	
Trichlorofluoromethane	ND	0.052	1.00	
1,3,5-Trimethylbenzene	ND	0.0052	1.00	
Vinyl Acetate	ND	0.052	1.00	
Vinyl Chloride	ND	0.0052	1.00	
p/m-Xylene	ND	0.0052	1.00	
o-Xylene	ND	0.0052	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0052	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.052	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.26	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	95	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 99 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	96	63-141	
1,2-Dichloroethane-d4	90	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 100 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-9810	N/A	Solid	GC/MS XX	06/10/15	06/10/15 15:52	150610L018

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 101 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 102 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	105	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 103 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-9817	N/A	Solid	GC/MS XX	06/10/15	06/11/15 04:09	150610L042

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 104 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	98	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 105 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	102	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 106 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-9825	N/A	Solid	GC/MS BB	06/10/15	06/11/15 03:16	150610L057

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 107 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 108 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	104	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	99	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 109 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-9830	N/A	Solid	GC/MS Q	06/11/15	06/12/15 00:07	150611L030

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 110 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	97	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 111 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	94	63-141	
1,2-Dichloroethane-d4	92	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 112 of 114

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-9837	N/A	Solid	GC/MS Q	06/12/15	06/12/15 13:01	150612L028

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	0.12	1.00	
Benzene	ND	0.0050	1.00	
Bromobenzene	ND	0.0050	1.00	
Bromochloromethane	ND	0.0050	1.00	
Bromodichloromethane	ND	0.0050	1.00	
Bromoform	ND	0.0050	1.00	
Bromomethane	ND	0.025	1.00	
2-Butanone	ND	0.050	1.00	
n-Butylbenzene	ND	0.0050	1.00	
sec-Butylbenzene	ND	0.0050	1.00	
tert-Butylbenzene	ND	0.0050	1.00	
Carbon Disulfide	ND	0.050	1.00	
Carbon Tetrachloride	ND	0.0050	1.00	
Chlorobenzene	ND	0.0050	1.00	
Chloroethane	ND	0.0050	1.00	
Chloroform	ND	0.0050	1.00	
Chloromethane	ND	0.025	1.00	
2-Chlorotoluene	ND	0.0050	1.00	
4-Chlorotoluene	ND	0.0050	1.00	
Dibromochloromethane	ND	0.0050	1.00	
1,2-Dibromo-3-Chloropropane	ND	0.010	1.00	
1,2-Dibromoethane	ND	0.0050	1.00	
Dibromomethane	ND	0.0050	1.00	
1,2-Dichlorobenzene	ND	0.0050	1.00	
1,3-Dichlorobenzene	ND	0.0050	1.00	
1,4-Dichlorobenzene	ND	0.0050	1.00	
Dichlorodifluoromethane	ND	0.0050	1.00	
1,1-Dichloroethane	ND	0.0050	1.00	
1,2-Dichloroethane	ND	0.0050	1.00	
1,1-Dichloroethene	ND	0.0050	1.00	
c-1,2-Dichloroethene	ND	0.0050	1.00	
t-1,2-Dichloroethene	ND	0.0050	1.00	
1,2-Dichloropropane	ND	0.0050	1.00	
1,3-Dichloropropane	ND	0.0050	1.00	
2,2-Dichloropropane	ND	0.0050	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 113 of 114

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	0.0050	1.00	
c-1,3-Dichloropropene	ND	0.0050	1.00	
t-1,3-Dichloropropene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
2-Hexanone	ND	0.050	1.00	
Isopropylbenzene	ND	0.0050	1.00	
p-Isopropyltoluene	ND	0.0050	1.00	
Methylene Chloride	ND	0.050	1.00	
4-Methyl-2-Pentanone	ND	0.050	1.00	
Naphthalene	ND	0.050	1.00	
n-Propylbenzene	ND	0.0050	1.00	
Styrene	ND	0.0050	1.00	
1,1,1,2-Tetrachloroethane	ND	0.0050	1.00	
1,1,2,2-Tetrachloroethane	ND	0.0050	1.00	
Tetrachloroethene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
1,2,3-Trichlorobenzene	ND	0.010	1.00	
1,2,4-Trichlorobenzene	ND	0.0050	1.00	
1,1,1-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloroethane	ND	0.0050	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	1.00	
Trichloroethene	ND	0.0050	1.00	
1,2,3-Trichloropropane	ND	0.0050	1.00	
1,2,4-Trimethylbenzene	ND	0.0050	1.00	
Trichlorofluoromethane	ND	0.050	1.00	
1,3,5-Trimethylbenzene	ND	0.0050	1.00	
Vinyl Acetate	ND	0.050	1.00	
Vinyl Chloride	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	
Ethanol	ND	0.25	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 114 of 114

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	92	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 1 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0697-1	Sample	Solid	GC 24	06/09/15	06/11/15 12:20	150611S019
15-06-0697-1	Matrix Spike	Solid	GC 24	06/09/15	06/11/15 12:54	150611S019
15-06-0697-1	Matrix Spike Duplicate	Solid	GC 24	06/09/15	06/11/15 13:28	150611S019

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	10.00	7.853	79	7.761	78	48-114	1	0-23	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 2 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-5.5-SV16	Sample	Solid	GC 24	06/09/15	06/12/15 03:37	150611S024
S-5.5-SV16	Matrix Spike	Solid	GC 24	06/09/15	06/12/15 04:10	150611S024
S-5.5-SV16	Matrix Spike Duplicate	Solid	GC 24	06/09/15	06/12/15 04:44	150611S024

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	10.00	5.317	53	5.636	56	48-114	6	0-23	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 3 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0965-1	Sample	Solid	GC 24	06/11/15	06/13/15 01:45	150611S041
15-06-0965-1	Matrix Spike	Solid	GC 24	06/11/15	06/13/15 02:19	150611S041
15-06-0965-1	Matrix Spike Duplicate	Solid	GC 24	06/11/15	06/13/15 02:53	150611S041

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	10.00	8.695	87	8.784	88	48-114	1	0-23	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 4 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0875-1	Sample	Solid	GC/MS Q	06/11/15	06/12/15 01:00	150611S018
15-06-0875-1	Matrix Spike	Solid	GC/MS Q	06/11/15	06/12/15 01:53	150611S018
15-06-0875-1	Matrix Spike Duplicate	Solid	GC/MS Q	06/11/15	06/12/15 02:19	150611S018

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	0.05000	0.03945	79	0.03956	79	61-127	0	0-20	
Carbon Tetrachloride	ND	0.05000	0.03719	74	0.03840	77	51-135	3	0-29	
Chlorobenzene	ND	0.05000	0.03473	69	0.03563	71	57-123	3	0-20	
1,2-Dibromoethane	ND	0.05000	0.04157	83	0.04248	85	64-124	2	0-20	
1,2-Dichlorobenzene	ND	0.05000	0.02883	58	0.03028	61	35-131	5	0-25	
1,2-Dichloroethane	ND	0.05000	0.03886	78	0.03859	77	80-120	1	0-20	3
1,1-Dichloroethene	ND	0.05000	0.03618	72	0.03635	73	47-143	0	0-25	
Ethylbenzene	ND	0.05000	0.03563	71	0.03651	73	57-129	2	0-22	
Toluene	ND	0.05000	0.03774	75	0.03832	77	63-123	2	0-20	
Trichloroethene	ND	0.05000	0.04331	87	0.04536	91	44-158	5	0-20	
Vinyl Chloride	ND	0.05000	0.04051	81	0.04071	81	49-139	0	0-47	
p/m-Xylene	ND	0.1000	0.06986	70	0.07141	71	70-130	2	0-30	
o-Xylene	ND	0.05000	0.03439	69	0.03520	70	70-130	2	0-30	3
Methyl-t-Butyl Ether (MTBE)	ND	0.05000	0.04208	84	0.04138	83	57-123	2	0-21	
Tert-Butyl Alcohol (TBA)	ND	0.2500	0.2319	93	0.2302	92	30-168	1	0-34	
Diisopropyl Ether (DIPE)	ND	0.05000	0.04077	82	0.04037	81	57-129	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	0.05000	0.04272	85	0.04227	85	55-127	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	0.05000	0.04305	86	0.04202	84	58-124	2	0-20	
Ethanol	ND	0.5000	0.3668	73	0.3778	76	17-167	3	0-47	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 5 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0873-35	Sample	Solid	GC/MS Q	06/11/15	06/12/15 13:57	150612S006
15-06-0873-35	Matrix Spike	Solid	GC/MS Q	06/11/15	06/12/15 14:24	150612S006
15-06-0873-35	Matrix Spike Duplicate	Solid	GC/MS Q	06/11/15	06/12/15 14:50	150612S006

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	0.05000	0.05392	108	0.04977	100	70-130	8	0-20	
Benzene	ND	0.05000	0.04660	93	0.04489	90	61-127	4	0-20	
Bromobenzene	ND	0.05000	0.04816	96	0.04624	92	70-130	4	0-20	
Bromochloromethane	ND	0.05000	0.04927	99	0.04613	92	70-130	7	0-20	
Bromodichloromethane	ND	0.05000	0.04373	87	0.04190	84	70-130	4	0-20	
Bromoform	ND	0.05000	0.04607	92	0.04402	88	70-130	5	0-20	
Bromomethane	ND	0.05000	0.05640	113	0.04348	87	70-130	26	0-20	4
2-Butanone	ND	0.05000	0.05186	104	0.04769	95	70-130	8	0-20	
n-Butylbenzene	ND	0.05000	0.04805	96	0.04509	90	77-123	6	0-25	
sec-Butylbenzene	ND	0.05000	0.04648	93	0.04403	88	70-130	5	0-20	
tert-Butylbenzene	ND	0.05000	0.04713	94	0.04398	88	70-130	7	0-20	
Carbon Disulfide	ND	0.05000	0.03960	79	0.03862	77	70-130	2	0-20	
Carbon Tetrachloride	ND	0.05000	0.04450	89	0.04243	85	51-135	5	0-29	
Chlorobenzene	ND	0.05000	0.04559	91	0.04413	88	57-123	3	0-20	
Chloroethane	ND	0.05000	0.04225	85	0.03889	78	70-130	8	0-20	
Chloroform	ND	0.05000	0.04422	88	0.04237	85	70-130	4	0-20	
Chloromethane	ND	0.05000	0.04164	83	0.03854	77	70-130	8	0-20	
2-Chlorotoluene	ND	0.05000	0.04376	88	0.04190	84	70-130	4	0-20	
4-Chlorotoluene	ND	0.05000	0.04534	91	0.04336	87	70-130	4	0-20	
Dibromochloromethane	ND	0.05000	0.04770	95	0.04584	92	70-130	4	0-20	
1,2-Dibromo-3-Chloropropane	ND	0.05000	0.04260	85	0.04282	86	70-130	1	0-20	
1,2-Dibromoethane	ND	0.05000	0.05146	103	0.04895	98	64-124	5	0-20	
Dibromomethane	ND	0.05000	0.04816	96	0.04516	90	70-130	6	0-20	
1,2-Dichlorobenzene	ND	0.05000	0.04642	93	0.04337	87	35-131	7	0-25	
1,3-Dichlorobenzene	ND	0.05000	0.04712	94	0.04409	88	70-130	7	0-20	
1,4-Dichlorobenzene	ND	0.05000	0.04617	92	0.04332	87	70-130	6	0-20	
Dichlorodifluoromethane	ND	0.05000	0.04686	94	0.04250	85	70-130	10	0-20	
1,1-Dichloroethane	ND	0.05000	0.04304	86	0.04114	82	70-130	5	0-20	
1,2-Dichloroethane	ND	0.05000	0.04381	88	0.04144	83	70-130	6	0-20	
1,1-Dichloroethene	ND	0.05000	0.04134	83	0.04027	81	47-143	3	0-25	
c-1,2-Dichloroethene	ND	0.05000	0.05028	101	0.04794	96	70-130	5	0-20	
t-1,2-Dichloroethene	ND	0.05000	0.04750	95	0.04577	92	70-130	4	0-20	
1,2-Dichloropropane	ND	0.05000	0.04757	95	0.04571	91	79-115	4	0-25	
1,3-Dichloropropane	ND	0.05000	0.05338	107	0.05068	101	70-130	5	0-20	
2,2-Dichloropropane	ND	0.05000	0.04395	88	0.04260	85	70-130	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 6 of 9

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	0.05000	0.04295	86	0.04148	83	70-130	3	0-20	
c-1,3-Dichloropropene	ND	0.05000	0.05181	104	0.04894	98	70-130	6	0-20	
t-1,3-Dichloropropene	ND	0.05000	0.04991	100	0.04817	96	70-130	4	0-20	
Ethylbenzene	ND	0.05000	0.04727	95	0.04589	92	57-129	3	0-22	
2-Hexanone	ND	0.05000	0.04480	90	0.04284	86	70-130	4	0-20	
Isopropylbenzene	ND	0.05000	0.04566	91	0.04442	89	70-130	3	0-20	
p-Isopropyltoluene	ND	0.05000	0.04848	97	0.04580	92	70-130	6	0-20	
Methylene Chloride	ND	0.05000	0.04925	98	0.04705	94	70-130	5	0-20	
4-Methyl-2-Pentanone	ND	0.05000	0.05059	101	0.04742	95	70-130	6	0-20	
Naphthalene	ND	0.05000	0.04369	87	0.04230	85	70-130	3	0-20	
n-Propylbenzene	ND	0.05000	0.04457	89	0.04310	86	70-130	3	0-20	
Styrene	ND	0.05000	0.04756	95	0.04568	91	70-130	4	0-20	
1,1,1,2-Tetrachloroethane	ND	0.05000	0.05117	102	0.04927	99	70-130	4	0-20	
1,1,2,2-Tetrachloroethane	ND	0.05000	0.05042	101	0.04506	90	70-130	11	0-20	
Tetrachloroethene	ND	0.05000	0.05339	107	0.05965	119	70-130	11	0-20	
Toluene	ND	0.05000	0.04669	93	0.04503	90	63-123	4	0-20	
1,2,3-Trichlorobenzene	ND	0.05000	0.04615	92	0.04273	85	70-130	8	0-20	
1,2,4-Trichlorobenzene	ND	0.05000	0.04767	95	0.04371	87	70-130	9	0-20	
1,1,1-Trichloroethane	ND	0.05000	0.04347	87	0.04205	84	70-130	3	0-20	
1,1,2-Trichloroethane	ND	0.05000	0.05148	103	0.04956	99	70-130	4	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.05000	0.04436	89	0.04309	86	70-130	3	0-20	
Trichloroethene	ND	0.05000	0.04922	98	0.04860	97	44-158	1	0-20	
1,2,3-Trichloropropane	ND	0.05000	0.04709	94	0.04491	90	70-130	5	0-20	
1,2,4-Trimethylbenzene	ND	0.05000	0.04725	94	0.04537	91	70-130	4	0-20	
Trichlorofluoromethane	ND	0.05000	0.04681	94	0.04207	84	70-130	11	0-20	
1,3,5-Trimethylbenzene	ND	0.05000	0.04828	97	0.04614	92	70-130	5	0-20	
Vinyl Acetate	ND	0.05000	0.05339	107	0.03577	72	70-130	40	0-20	4
Vinyl Chloride	ND	0.05000	0.04526	91	0.04176	84	49-139	8	0-47	
p/m-Xylene	ND	0.1000	0.09472	95	0.09165	92	70-130	3	0-20	
o-Xylene	ND	0.05000	0.04554	91	0.04371	87	70-130	4	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	0.05000	0.04586	92	0.04316	86	57-123	6	0-21	
Tert-Butyl Alcohol (TBA)	ND	0.2500	0.2792	112	0.2427	97	30-168	14	0-34	
Diisopropyl Ether (DIPE)	ND	0.05000	0.04308	86	0.04136	83	57-129	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	0.05000	0.04604	92	0.04373	87	55-127	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	0.05000	0.04652	93	0.04435	89	58-124	5	0-20	
Ethanol	ND	0.5000	0.5327	107	0.4940	99	17-167	8	0-47	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0680-1	Sample	Solid	GC/MS BB	06/09/15	06/11/15 03:44	150610S033
15-06-0680-1	Matrix Spike	Solid	GC/MS BB	06/09/15	06/11/15 04:13	150610S033
15-06-0680-1	Matrix Spike Duplicate	Solid	GC/MS BB	06/09/15	06/11/15 04:41	150610S033

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	0.05000	0.04041	81	0.04422	88	61-127	9	0-20	
Carbon Tetrachloride	ND	0.05000	0.04158	83	0.04556	91	51-135	9	0-29	
Chlorobenzene	ND	0.05000	0.03625	72	0.03861	77	57-123	6	0-20	
1,2-Dibromoethane	ND	0.05000	0.04287	86	0.04405	88	64-124	3	0-20	
1,2-Dichlorobenzene	ND	0.05000	0.03188	64	0.03318	66	35-131	4	0-25	
1,2-Dichloroethane	ND	0.05000	0.04260	85	0.04498	90	80-120	5	0-20	
1,1-Dichloroethene	ND	0.05000	0.04062	81	0.04546	91	47-143	11	0-25	
Ethylbenzene	ND	0.05000	0.04030	81	0.04346	87	57-129	8	0-22	
Toluene	ND	0.05000	0.03943	79	0.04260	85	63-123	8	0-20	
Trichloroethene	ND	0.05000	0.04214	84	0.04584	92	44-158	8	0-20	
Vinyl Chloride	ND	0.05000	0.04509	90	0.04646	93	49-139	3	0-47	
p/m-Xylene	ND	0.1000	0.08005	80	0.08529	85	70-130	6	0-30	
o-Xylene	ND	0.05000	0.03687	74	0.03917	78	70-130	6	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	0.05000	0.04335	87	0.04505	90	57-123	4	0-21	
Tert-Butyl Alcohol (TBA)	ND	0.2500	0.2304	92	0.2230	89	30-168	3	0-34	
Diisopropyl Ether (DIPE)	ND	0.05000	0.04355	87	0.04639	93	57-129	6	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	0.05000	0.04438	89	0.04733	95	55-127	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	0.05000	0.04190	84	0.04382	88	58-124	4	0-20	
Ethanol	ND	0.5000	0.1904	38	0.1157	23	17-167	49	0-47	4

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 8 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-5.5-SV16	Sample	Solid	GC/MS XX	06/09/15	06/10/15 16:46	150610S005
S-5.5-SV16	Matrix Spike	Solid	GC/MS XX	06/09/15	06/10/15 17:14	150610S005
S-5.5-SV16	Matrix Spike Duplicate	Solid	GC/MS XX	06/09/15	06/10/15 17:41	150610S005

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	0.05000	0.04579	92	0.04336	87	61-127	5	0-20	
Carbon Tetrachloride	ND	0.05000	0.04306	86	0.04061	81	51-135	6	0-29	
Chlorobenzene	ND	0.05000	0.03905	78	0.03643	73	57-123	7	0-20	
1,2-Dibromoethane	ND	0.05000	0.04596	92	0.04340	87	64-124	6	0-20	
1,2-Dichlorobenzene	ND	0.05000	0.03299	66	0.03014	60	35-131	9	0-25	
1,2-Dichloroethane	ND	0.05000	0.04937	99	0.04629	93	80-120	6	0-20	
1,1-Dichloroethene	ND	0.05000	0.04196	84	0.04010	80	47-143	5	0-25	
Ethylbenzene	ND	0.05000	0.04251	85	0.03911	78	57-129	8	0-22	
Toluene	ND	0.05000	0.04368	87	0.04093	82	63-123	7	0-20	
Trichloroethene	ND	0.05000	0.04455	89	0.04192	84	44-158	6	0-20	
Vinyl Chloride	ND	0.05000	0.04287	86	0.03854	77	49-139	11	0-47	
p/m-Xylene	ND	0.1000	0.08549	85	0.07865	79	70-130	8	0-30	
o-Xylene	ND	0.05000	0.04183	84	0.03881	78	70-130	8	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	0.05000	0.04303	86	0.04154	83	57-123	4	0-21	
Tert-Butyl Alcohol (TBA)	ND	0.2500	0.2384	95	0.2268	91	30-168	5	0-34	
Diisopropyl Ether (DIPE)	ND	0.05000	0.04642	93	0.05321	106	57-129	14	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	0.05000	0.05454	109	0.05302	106	55-127	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	0.05000	0.05143	103	0.04954	99	58-124	4	0-20	
Ethanol	ND	0.5000	0.4793	96	0.4481	90	17-167	7	0-47	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 9 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-5-SV19	Sample	Solid	GC/MS XX	06/09/15	06/11/15 04:37	150610S018
S-5-SV19	Matrix Spike	Solid	GC/MS XX	06/09/15	06/11/15 05:04	150610S018
S-5-SV19	Matrix Spike Duplicate	Solid	GC/MS XX	06/09/15	06/11/15 05:31	150610S018

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	0.05000	0.04435	89	0.04169	83	61-127	6	0-20	
Carbon Tetrachloride	ND	0.05000	0.04403	88	0.04192	84	51-135	5	0-29	
Chlorobenzene	ND	0.05000	0.03997	80	0.03756	75	57-123	6	0-20	
1,2-Dibromoethane	ND	0.05000	0.04350	87	0.04166	83	64-124	4	0-20	
1,2-Dichlorobenzene	ND	0.05000	0.03913	78	0.03674	73	35-131	6	0-25	
1,2-Dichloroethane	ND	0.05000	0.04531	91	0.04295	86	80-120	5	0-20	
1,1-Dichloroethene	ND	0.05000	0.04083	82	0.03919	78	47-143	4	0-25	
Ethylbenzene	ND	0.05000	0.04440	89	0.04160	83	57-129	6	0-22	
Toluene	ND	0.05000	0.04404	88	0.04120	82	63-123	7	0-20	
Trichloroethene	ND	0.05000	0.04670	93	0.04406	88	44-158	6	0-20	
Vinyl Chloride	ND	0.05000	0.03921	78	0.03887	78	49-139	1	0-47	
p/m-Xylene	ND	0.1000	0.08972	90	0.08364	84	70-130	7	0-30	
o-Xylene	ND	0.05000	0.04429	89	0.04150	83	70-130	6	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	0.05000	0.03831	77	0.03970	79	57-123	4	0-21	
Tert-Butyl Alcohol (TBA)	ND	0.2500	0.2117	85	0.2040	82	30-168	4	0-34	
Diisopropyl Ether (DIPE)	ND	0.05000	0.05126	103	0.04324	86	57-129	17	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	0.05000	0.05011	100	0.04666	93	55-127	7	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	0.05000	0.04669	93	0.04471	89	58-124	4	0-20	
Ethanol	ND	0.5000	0.4242	85	0.3912	78	17-167	8	0-47	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-571-2402	LCS	Solid	GC 24	06/11/15	06/11/15 11:46	150611L032
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		10.00	9.337	93	70-124	



Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-571-2406	LCS	Solid	GC 24	06/11/15	06/12/15 01:55	150611L041
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		10.00	9.518	95	70-124	



Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-571-2409	LCS	Solid	GC 24	06/11/15	06/12/15 17:16	150611L063
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		10.00	9.303	93	70-124	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
099-12-796-9830	LCS	Solid	GC/MS Q	06/11/15	06/11/15 23:15	150611L030	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		0.05000	0.04690	94	78-120	71-127	
Carbon Tetrachloride		0.05000	0.04490	90	49-139	34-154	
Chlorobenzene		0.05000	0.04695	94	79-120	72-127	
1,2-Dibromoethane		0.05000	0.05343	107	80-120	73-127	
1,2-Dichlorobenzene		0.05000	0.04825	97	75-120	68-128	
1,2-Dichloroethane		0.05000	0.04514	90	80-120	73-127	
1,1-Dichloroethene		0.05000	0.04108	82	74-122	66-130	
Ethylbenzene		0.05000	0.04832	97	76-120	69-127	
Toluene		0.05000	0.04725	95	77-120	70-127	
Trichloroethene		0.05000	0.04809	96	80-120	73-127	
Vinyl Chloride		0.05000	0.04461	89	68-122	59-131	
p/m-Xylene		0.1000	0.09545	95	75-125	67-133	
o-Xylene		0.05000	0.04681	94	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)		0.05000	0.04883	98	77-120	70-127	
Tert-Butyl Alcohol (TBA)		0.2500	0.2738	110	68-122	59-131	
Diisopropyl Ether (DIPE)		0.05000	0.04667	93	78-120	71-127	
Ethyl-t-Butyl Ether (ETBE)		0.05000	0.04984	100	78-120	71-127	
Tert-Amyl-Methyl Ether (TAME)		0.05000	0.05052	101	75-120	68-128	
Ethanol		0.5000	0.5335	107	56-140	42-154	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
099-12-796-9837	LCS	Solid	GC/MS Q	06/12/15	06/12/15 12:05	150612L028	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		0.05000	0.04950	99	78-120	71-127	
Carbon Tetrachloride		0.05000	0.04899	98	49-139	34-154	
Chlorobenzene		0.05000	0.04926	99	79-120	72-127	
1,2-Dibromoethane		0.05000	0.05330	107	80-120	73-127	
1,2-Dichlorobenzene		0.05000	0.05052	101	75-120	68-128	
1,2-Dichloroethane		0.05000	0.04621	92	80-120	73-127	
1,1-Dichloroethene		0.05000	0.04348	87	74-122	66-130	
Ethylbenzene		0.05000	0.05084	102	76-120	69-127	
Toluene		0.05000	0.05059	101	77-120	70-127	
Trichloroethene		0.05000	0.05172	103	80-120	73-127	
Vinyl Chloride		0.05000	0.04364	87	68-122	59-131	
p/m-Xylene		0.1000	0.1007	101	75-125	67-133	
o-Xylene		0.05000	0.04918	98	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)		0.05000	0.04835	97	77-120	70-127	
Tert-Butyl Alcohol (TBA)		0.2500	0.2731	109	68-122	59-131	
Diisopropyl Ether (DIPE)		0.05000	0.04729	95	78-120	71-127	
Ethyl-t-Butyl Ether (ETBE)		0.05000	0.05035	101	78-120	71-127	
Tert-Amyl-Methyl Ether (TAME)		0.05000	0.05122	102	75-120	68-128	
Ethanol		0.5000	0.4935	99	56-140	42-154	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
099-12-796-9825	LCS	Solid	GC/MS BB	06/10/15	06/11/15 02:19	150610L057	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		0.05000	0.05328	107	78-120	71-127	
Carbon Tetrachloride		0.05000	0.05222	104	49-139	34-154	
Chlorobenzene		0.05000	0.05092	102	79-120	72-127	
1,2-Dibromoethane		0.05000	0.05636	113	80-120	73-127	
1,2-Dichlorobenzene		0.05000	0.05095	102	75-120	68-128	
1,2-Dichloroethane		0.05000	0.05676	114	80-120	73-127	
1,1-Dichloroethene		0.05000	0.05162	103	74-122	66-130	
Ethylbenzene		0.05000	0.05477	110	76-120	69-127	
Toluene		0.05000	0.05276	106	77-120	70-127	
Trichloroethene		0.05000	0.05450	109	80-120	73-127	
Vinyl Chloride		0.05000	0.05000	100	68-122	59-131	
p/m-Xylene		0.1000	0.1100	110	75-125	67-133	
o-Xylene		0.05000	0.05086	102	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)		0.05000	0.05375	108	77-120	70-127	
Tert-Butyl Alcohol (TBA)		0.2500	0.2772	111	68-122	59-131	
Diisopropyl Ether (DIPE)		0.05000	0.05533	111	78-120	71-127	
Ethyl-t-Butyl Ether (ETBE)		0.05000	0.05595	112	78-120	71-127	
Tert-Amyl-Methyl Ether (TAME)		0.05000	0.05377	108	75-120	68-128	
Ethanol		0.5000	0.5030	101	56-140	42-154	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
099-12-796-9810	LCS	Solid	GC/MS XX	06/10/15	06/10/15 14:50	150610L018	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		0.05000	0.05046	101	78-120	71-127	
Carbon Tetrachloride		0.05000	0.04869	97	49-139	34-154	
Chlorobenzene		0.05000	0.04735	95	79-120	72-127	
1,2-Dibromoethane		0.05000	0.05216	104	80-120	73-127	
1,2-Dichlorobenzene		0.05000	0.04867	97	75-120	68-128	
1,2-Dichloroethane		0.05000	0.05183	104	80-120	73-127	
1,1-Dichloroethene		0.05000	0.04609	92	74-122	66-130	
Ethylbenzene		0.05000	0.05211	104	76-120	69-127	
Toluene		0.05000	0.05019	100	77-120	70-127	
Trichloroethene		0.05000	0.05025	100	80-120	73-127	
Vinyl Chloride		0.05000	0.04472	89	68-122	59-131	
p/m-Xylene		0.1000	0.1051	105	75-125	67-133	
o-Xylene		0.05000	0.05255	105	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)		0.05000	0.04622	92	77-120	70-127	
Tert-Butyl Alcohol (TBA)		0.2500	0.2584	103	68-122	59-131	
Diisopropyl Ether (DIPE)		0.05000	0.06003	120	78-120	71-127	
Ethyl-t-Butyl Ether (ETBE)		0.05000	0.05993	120	78-120	71-127	
Tert-Amyl-Methyl Ether (TAME)		0.05000	0.05575	111	75-120	68-128	
Ethanol		0.5000	0.5297	106	56-140	42-154	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0698
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 8 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
099-12-796-9817	LCS	Solid	GC/MS XX	06/10/15	06/11/15 03:15	150610L042	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		0.05000	0.05143	103	78-120	71-127	
Carbon Tetrachloride		0.05000	0.04848	97	49-139	34-154	
Chlorobenzene		0.05000	0.04732	95	79-120	72-127	
1,2-Dibromoethane		0.05000	0.05286	106	80-120	73-127	
1,2-Dichlorobenzene		0.05000	0.04767	95	75-120	68-128	
1,2-Dichloroethane		0.05000	0.05274	105	80-120	73-127	
1,1-Dichloroethene		0.05000	0.04676	94	74-122	66-130	
Ethylbenzene		0.05000	0.05172	103	76-120	69-127	
Toluene		0.05000	0.05081	102	77-120	70-127	
Trichloroethene		0.05000	0.05117	102	80-120	73-127	
Vinyl Chloride		0.05000	0.04453	89	68-122	59-131	
p/m-Xylene		0.1000	0.1038	104	75-125	67-133	
o-Xylene		0.05000	0.05238	105	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)		0.05000	0.04830	97	77-120	70-127	
Tert-Butyl Alcohol (TBA)		0.2500	0.2604	104	68-122	59-131	
Diisopropyl Ether (DIPE)		0.05000	0.05469	109	78-120	71-127	
Ethyl-t-Butyl Ether (ETBE)		0.05000	0.06110	122	78-120	71-127	ME
Tert-Amyl-Methyl Ether (TAME)		0.05000	0.05744	115	75-120	68-128	
Ethanol		0.5000	0.5160	103	56-140	42-154	

Total number of LCS compounds: 19

Total number of ME compounds: 1

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 15-06-0698

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8015B (M)	EPA 5030C	715	GC 24	2
EPA 8260B	EPA 5030C	905	GC/MS Q	2
EPA 8260B	EPA 5030C	975	GC/MS BB	2
EPA 8260B	EPA 5030C	986	GC/MS XX	2

Glossary of Terms and Qualifiers

Work Order: 15-06-0698

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

CHAIN OF CUSTODY RECORD

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

WO # / LAB USE ONLY: 15-06-0698

DATE: 6-4-15
PAGE: 1 OF 4

LABORATORY CLIENT: Cardno ATC
ADDRESS: 701 University Avenue Suite 200
CITY: Sacramento STATE: CA ZIP: 95825
TEL: 916-386-3870 E-MAIL: gabe.stivala@cardno.com

CLIENT PROJECT NAME / NUMBER: 580 Market Place Shopping Center / Cardno ATC
Project # Z075000152
PROJECT CONTACT: Gabe Stivala
P.O. NO.:
SAMPLER(S): (PRINT) Nadya Vicente

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
[] SAME DAY [] 24 HR [] 48 HR [] 72 HR [] 5 DAYS [x] STANDARD
[] COELT EDF GLOBAL ID: T10000004345 LOG CODE:

Please check box or fill in blank as needed.

SPECIAL INSTRUCTIONS:
**VOCs include halogenated volatile organic compounds (HVOCs)
***Oxys by 8260B: MTBE, TBA, TAME, ETBE, and DIPE
Please email PDF files to: norcallabs@eri-us.com

Table with columns for various analytes: TPH(g) (8015B), Full Scan VOCs (8260B)** (checked), BTEX 8260B (checked), MTBE/TBA 8260B, Oxygenates (8260B)***, Lead Scavengers (1,2-DCA and EDB) (8260B), Napthalene (8260B), Pesticides (8081), PCBs (8082), PAHs (8270C) (checked), 8270 SIM, T22 Metals (6010747X) (checked), 6020747X, Cr(VI) (7199) (checked), 7199 (checked), 218.6.

Table with columns: LAB USE ONLY, SAMPLE ID, Field Point Name, SAMPLING (DATE, TIME), MATRIX, NO. OF CONT., Unpreserved, Preserved, Field Filtered. Contains 10 rows of sampling data.

Relinquished by: (Signature) [Signature]
Relinquished by: (Signature) Tom O'Malley TO 680 6/8/15 1730
Relinquished by: (Signature)

Received by: (Signature/Affiliation) Tom O'Malley ECI
Received by: (Signature/Affiliation) [Signature] EG
Received by: (Signature/Affiliation)
Date: 6/8/15 Time: 1055
Date: 6/9/15 Time: 1030
Date: Time:

Page 145 of 151



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
15-06-0698

DATE: 6-4-15
PAGE: 2 OF 4

LABORATORY CLIENT: **Cardno ATC**

ADDRESS: 701 University Avenue Suite 200

CITY: Sacramento STATE: CA ZIP: 95825

TEL: 916-386-3870 E-MAIL: gabe.stivala@cardno.com

CLIENT PROJECT NAME / NUMBER:
580 Market Place Shopping Center / Cardno ATC
Project # Z075000152

P.O. NO.:

PROJECT CONTACT: Gabe Stivala

SAMPLER(S): (PRINT)
Nadya Vicente

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID: **T10000004345** LOG CODE:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

Unpreserved	Preserved	Field Filtered	<input checked="" type="checkbox"/> TPH(g) (8015B)	Full Scan VOCs (8260B)**	BTEX 8260B <input checked="" type="checkbox"/>	MTBE/TBA 8260B	Oxygenates (8260B)***	Lead Scavengers (1,2-DCA and EDB) (8260B)	Napthalene (8260B)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270C <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7198 <input type="checkbox"/> 218.6
			X	X	X	X	X	X	X					
			X	X	X	X	X	X	X					
			X	X	X	X	X	X	X					
			X	X	X	X	X	X	X					
			X	X	X	X	X	X	X					
			X	X	X	X	X	X	X					
			X	X	X	X	X	X	X					
			X	X	X	X	X	X	X					
			X	X	X	X	X	X	X					

SPECIAL INSTRUCTIONS:

****VOCs include halogenated volatile organic compounds (HVOCs)**

*****Oxys by 8260B: MTBE, TBA, TAME, ETBE, and DIPE**

Please email PDF files to: norcallabs@eri-us.com

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input checked="" type="checkbox"/> TPH(g) (8015B)	Full Scan VOCs (8260B)**	BTEX 8260B <input checked="" type="checkbox"/>	MTBE/TBA 8260B	Oxygenates (8260B)***	Lead Scavengers (1,2-DCA and EDB) (8260B)	Napthalene (8260B)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270C <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7198 <input type="checkbox"/> 218.6	
			DATE	TIME																		
11	S-5-SV22	SV-22	6/4/15	0735	S	1				X	X	X	X	X	X	X						
12	S-10-SV22	SV-22	6/4/15	0750	S	1				X	X	X	X	X	X	X						
13	S-15-SV22	SV-22	6/4/15	0755	S	1				X	X	X	X	X	X	X						
14	S-20-SV22	SV-22	6/4/15	0805	S	1				X	X	X	X	X	X	X						
15	S-27.5-SV22	SV-22	6/4/15	0815	S	1				X	X	X	X	X	X	X						
16	S-5-SV18	SV-18	6/4/15	0950	S	1				X	X	X	X	X	X	X						
17	S-10-SV18	SV-18	6/4/15	0955	S	1				X	X	X	X	X	X	X						
18	S-15-SV18	SV-18	6/4/15	1021	S	1				X	X	X	X	X	X	X						
19	S-22-SV18	SV-18	6/4/15	1025	S	1				X	X	X	X	X	X	X						
20	S-27.5-SV18	SV-18	6/4/15	1028	S	1				X	X	X	X	X	X	X						

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>Tom O'Malley BCI</i>	Date: <u>6/8/15</u>	Time: <u>1055</u>
Relinquished by: (Signature) <i>Tom O'Malley TO BSO 6/8/15 1730</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: <u>6/9/15</u>	Time: <u>1030</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:



Calscience

CHAIN OF CUSTODY RECORD

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofins.com or call us.

WQ # / LAB USE ONLY: 15-06-0648

DATE: 6/4/15
PAGE: 3 OF 4

LABORATORY CLIENT: Cardno ATC
ADDRESS: 701 University Avenue Suite 200
CITY: Sacramento STATE: CA ZIP: 95825
TEL: 916-386-3870 E-MAIL: gabe.stivala@cardno.com

CLIENT PROJECT NAME / NUMBER: 580 Market Place Shopping Center / Cardno ATC
Project # Z075000152
PROJECT CONTACT: Gabe Stivala
P.O. NO.:
SAMPLER(S): (PRINT) Nadya Vicente

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
[] SAME DAY [] 24 HR [] 48 HR [] 72 HR [] 5 DAYS [X] STANDARD
[] COELT EDF GLOBAL ID: T10000004345 LOG CODE:

REQUESTED ANALYSES

SPECIAL INSTRUCTIONS:
**VOCs include halogenated volatile organic compounds (HVOCs)
***Oxys by 8260B: MTBE, TBA, TAME, ETBE, and DIPE
Please email PDF files to: norcallabs@eri-us.com

Table with columns for various analytes: TPH(g) (8015B), Full Scan VOCs (8260B)** (checked), BTEX 8260B (checked), MTBE/TBA 8260B, Oxygenates (8260B)***, Lead Scavengers (1,2-DCA and EDB) (8260B), Napthalene (8260B), Pesticides (8081), PCBs (8082), PAHs (8270C), PAHs (8270C) (checked), T22 Metals (8010/747X) (checked), Cr(VI) (7199) (checked), Cr(VI) (7199) (checked).

Table with columns: LAB USE ONLY, SAMPLE ID, Field Point Name, SAMPLING DATE, TIME, MATRIX, NO. OF CONT., Unpreserved, Preserved, Field Filtered. Rows 21-30.

Relinquished by: (Signature) [Signature]
Relinquished by: (Signature) Tom O'Malley TO GSD 6/8/15 1730
Relinquished by: (Signature)

Received by: (Signature/Affiliation) Tom O'Malley ECI Date: 6/8/15 Time: 1055
Received by: (Signature/Affiliation) [Signature] EQ Date: 6/9/15 Time: 1030
Received by: (Signature/Affiliation)



Calscience

CHAIN OF CUSTODY RECORD

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

WO # / LAB USE ONLY
15-06-0698

DATE: 6/4/15
PAGE: 4 OF 4

LABORATORY CLIENT: Cardno ATC
ADDRESS: 701 University Avenue Suite 200
CITY: Sacramento STATE: CA ZIP: 95825
TEL: 916-386-3870 E-MAIL: gabe.stivala@cardno.com

CLIENT PROJECT NAME / NUMBER: 580 Market Place Shopping Center / Cardno ATC
Project # 075-75054-0002 Z075000/52
PROJECT CONTACT: Gabe Stivala
P.O. NO.:
SAMPLER(S): (PRINT) Nadya Vicente

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
[] SAME DAY [] 24 HR [] 48 HR [] 72 HR [] 5 DAYS [X] STANDARD
[] COELT EDF GLOBAL ID: T10000004345 LOG CODE:

REQUESTED ANALYSES

SPECIAL INSTRUCTIONS:
**VOCs include halogenated volatile organic compounds (HVOCs)
***Oxys by 8260B: MTBE, TBA, TAME, ETBE, and DIPE
Please email PDF files to: norcallabs@eri-us.com

Table with columns for various analytes: TPH(g) (8015B), Full Scan VOCs (8260B)**, BTEX 8260B [X], MTBE/TBA 8260B, Oxygenates (8260B)***, Lead Scavengers (1,2-DCA and EDB) (8260B), Napthalene (8260B), Pesticides (8081), PCBs (8082), PAHs [] 8270C [] 8270 SIM, T22 Metals [] 60107/47X [] 60207/47X, Cr(VI) [] 7196 [] 7199 [] 218.6

Table with columns: LAB USE ONLY, SAMPLE ID, Field Point Name, SAMPLING DATE, TIME, MATRIX, NO. OF CONT., Unpreserved, Preserved, Field Filtered

Relinquished by: (Signature) [Signature]
Tom O'Malley TC 656 6/8/15 1730

Received by: (Signature/Affiliation) Tom O'Malley ECI
Received by: (Signature/Affiliation) [Signature]

Date: 6/8/15 Time: 1055
Date: 6/9/15 Time: 1030



800-322-5555 www.gso.com

0648

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Tracking #: 528191457

NPS



Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

ORC
GARDEN GROVE

A

COD: \$0.00
Weight: 0 lb(s)
Reference:
CARDNO ERI
Delivery Instructions:

D92845A



Signature Type: REQUIRED

38660565

Print Date: 6/8/2015 3:12 PM

Package 2 of 2

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.



SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Cardno ATC

DATE: 06/9/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2-3 °C (w/ CF): 2.0 °C; [X] Blank [] Sample

[] Sample(s) outside temperature criteria (PM/APM contacted by: _____)

[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

[] Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: [] Air [] Filter

Checked by: 836

CUSTODY SEAL:

Cooler [X] Present and Intact [] Present but Not Intact [] Not Present [] N/A Checked by: 876

Sample(s) [] Present and Intact [] Present but Not Intact [X] Not Present [] N/A Checked by: 965

SAMPLE CONDITION:

Table with 3 columns: Yes, No, N/A. Rows include Chain-of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, Proper containers for analyses requested, Sufficient volume/mass for analyses requested, Samples received within holding time, Aqueous samples for certain analyses received within 15-minute holding time, Proper preservation chemical(s) noted on COC and/or sample container, Container(s) for certain analysis free of headspace, Tedlar™ bag(s) free of condensation.

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: [] VOA [] VOAh [] VOAna2 [] 100PJ [] 100PJna2 [] 125AGB [] 125AGBh [] 125AGBp [] 125PB [] 125PBzanna [] 250AGB [] 250CGB [] 250CGBs [] 250PB [] 250PBn [] 500AGB [] 500AGJ [] 500AGJs [] 500PB [] 1AGB [] 1AGBna2 [] 1AGBs [] 1PB [] 1PBna [] _____ [] _____ [] _____

Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [X] Sleeve (P/S) [] EnCores® (____) [] TerraCores® (____) [] _____

Air: [] Tedlar™ [] Canister [] Sorbent Tube [] PUF [] _____ Other Matrix (____): [] _____ [] _____

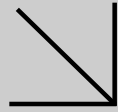
Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO3, na = NaOH, na2 = Na2S2O3, p = H3PO4, Labeled/Checked by: 965

s = H2SO4, u = ultra-pure, zanna = Zn(CH3CO2)2 + NaOH Reviewed by: 862



Calscience



WORK ORDER NUMBER: 15-06-0697

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: 580 Market Place Shopping Center

Attention: Gabe Stivala
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Amanda Porter

Approved for release on 06/16/2015 by:
Amanda Porter
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Calscience

Contents

Client Project Name: 580 Market Place Shopping Center
Work Order Number: 15-06-0697

1	Work Order Narrative.	3
2	Client Sample Data.	4
	2.1 EPA 8015B (M) TPH Gasoline (Solid).	4
	2.2 EPA 8260B Volatile Organics + Oxygenates (Solid).	8
3	Quality Control Sample Data.	53
	3.1 MS/MSD.	53
	3.2 LCS/LCSD.	56
4	Sample Analysis Summary.	59
5	Glossary of Terms and Qualifiers.	60
6	Chain-of-Custody/Sample Receipt Form.	61

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/09/15. They were assigned to Work Order 15-06-0697.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5.5-SV21	15-06-0697-1-A	06/05/15 13:00	Solid	GC 24	06/09/15	06/11/15 12:20	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.49		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		70		42-126			
S-10-SV21	15-06-0697-2-A	06/05/15 13:05	Solid	GC 24	06/09/15	06/11/15 14:02	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.49		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
S-15-SV21	15-06-0697-3-A	06/05/15 13:10	Solid	GC 24	06/09/15	06/11/15 14:36	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.51		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		71		42-126			
S-23.5-SV21	15-06-0697-4-A	06/05/15 13:45	Solid	GC 24	06/09/15	06/11/15 15:10	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.51		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		60		42-126			
S-4.5-SV23	15-06-0697-5-A	06/05/15 10:20	Solid	GC 24	06/09/15	06/11/15 15:44	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.51		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		68		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SV23	15-06-0697-6-A	06/05/15 10:35	Solid	GC 24	06/09/15	06/11/15 16:18	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.49		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		69		42-126			
S-15-SV23	15-06-0697-7-A	06/05/15 10:40	Solid	GC 24	06/09/15	06/11/15 16:52	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.53		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
S-23-SV23	15-06-0697-8-A	06/05/15 11:00	Solid	GC 24	06/09/15	06/11/15 17:26	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.53		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		73		42-126			
S-5-SV24	15-06-0697-9-A	06/05/15 08:00	Solid	GC 24	06/09/15	06/11/15 18:00	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		71		42-126			
S-10-SV24	15-06-0697-10-A	06/05/15 08:20	Solid	GC 24	06/12/15	06/13/15 00:37	150611L063
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		73		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SV24	15-06-0697-11-A	06/05/15 08:30	Solid	GC 24	06/09/15	06/11/15 19:42	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
S-20-SV24	15-06-0697-12-A	06/05/15 08:35	Solid	GC 24	06/09/15	06/11/15 20:16	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.52		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		70		42-126			
S-25-SV24	15-06-0697-13-A	06/05/15 09:15	Solid	GC 24	06/09/15	06/11/15 20:50	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.48		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		70		42-126			
S-27.5-SV24	15-06-0697-14-A	06/05/15 09:20	Solid	GC 24	06/09/15	06/11/15 21:23	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.49		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		72		42-126			
Method Blank	099-14-571-2402	N/A	Solid	GC 24	06/11/15	06/11/15 11:12	150611L032
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		70		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: 580 Market Place Shopping Center

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-571-2409	N/A	Solid	GC 24	06/11/15	06/12/15 17:50	150611L063

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline	ND	0.50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID	69	42-126		



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 1 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5.5-SV21	15-06-0697-1-A	06/05/15 13:00	Solid	GC/MS BB	06/09/15	06/09/15 23:49	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.2	1.00	
Bromobenzene	ND	5.2	1.00	
Bromochloromethane	ND	5.2	1.00	
Bromodichloromethane	ND	5.2	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	52	1.00	
n-Butylbenzene	ND	5.2	1.00	
sec-Butylbenzene	ND	5.2	1.00	
tert-Butylbenzene	ND	5.2	1.00	
Carbon Disulfide	ND	52	1.00	
Carbon Tetrachloride	ND	5.2	1.00	
Chlorobenzene	ND	5.2	1.00	
Chloroethane	ND	5.2	1.00	
Chloroform	ND	5.2	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.2	1.00	
4-Chlorotoluene	ND	5.2	1.00	
Dibromochloromethane	ND	5.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
Dibromomethane	ND	5.2	1.00	
1,2-Dichlorobenzene	ND	5.2	1.00	
1,3-Dichlorobenzene	ND	5.2	1.00	
1,4-Dichlorobenzene	ND	5.2	1.00	
Dichlorodifluoromethane	ND	5.2	1.00	
1,1-Dichloroethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
1,1-Dichloroethene	ND	5.2	1.00	
c-1,2-Dichloroethene	ND	5.2	1.00	
t-1,2-Dichloroethene	ND	5.2	1.00	
1,2-Dichloropropane	ND	5.2	1.00	
1,3-Dichloropropane	ND	5.2	1.00	
2,2-Dichloropropane	ND	5.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI	Date Received:	06/09/15
601 North McDowell Blvd.	Work Order:	15-06-0697
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: 580 Market Place Shopping Center		Page 2 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.2	1.00	
c-1,3-Dichloropropene	ND	5.2	1.00	
t-1,3-Dichloropropene	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
2-Hexanone	ND	52	1.00	
Isopropylbenzene	ND	5.2	1.00	
p-Isopropyltoluene	ND	5.2	1.00	
Methylene Chloride	ND	52	1.00	
4-Methyl-2-Pentanone	ND	52	1.00	
Naphthalene	ND	52	1.00	
n-Propylbenzene	ND	5.2	1.00	
Styrene	ND	5.2	1.00	
1,1,1,2-Tetrachloroethane	ND	5.2	1.00	
1,1,2,2-Tetrachloroethane	ND	5.2	1.00	
Tetrachloroethene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.2	1.00	
1,1,1-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	52	1.00	
Trichloroethene	ND	5.2	1.00	
1,2,3-Trichloropropane	ND	5.2	1.00	
1,2,4-Trimethylbenzene	ND	5.2	1.00	
Trichlorofluoromethane	ND	52	1.00	
1,3,5-Trimethylbenzene	ND	5.2	1.00	
Vinyl Acetate	ND	52	1.00	
Vinyl Chloride	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	260	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	98	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 3 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 4 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SV21	15-06-0697-2-A	06/05/15 13:05	Solid	GC/MS BB	06/09/15	06/10/15 01:43	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	4.9	1.00	
Bromobenzene	ND	4.9	1.00	
Bromochloromethane	ND	4.9	1.00	
Bromodichloromethane	ND	4.9	1.00	
Bromoform	ND	4.9	1.00	
Bromomethane	ND	24	1.00	
2-Butanone	ND	49	1.00	
n-Butylbenzene	ND	4.9	1.00	
sec-Butylbenzene	ND	4.9	1.00	
tert-Butylbenzene	ND	4.9	1.00	
Carbon Disulfide	ND	49	1.00	
Carbon Tetrachloride	ND	4.9	1.00	
Chlorobenzene	ND	4.9	1.00	
Chloroethane	ND	4.9	1.00	
Chloroform	ND	4.9	1.00	
Chloromethane	ND	24	1.00	
2-Chlorotoluene	ND	4.9	1.00	
4-Chlorotoluene	ND	4.9	1.00	
Dibromochloromethane	ND	4.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.7	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
Dibromomethane	ND	4.9	1.00	
1,2-Dichlorobenzene	ND	4.9	1.00	
1,3-Dichlorobenzene	ND	4.9	1.00	
1,4-Dichlorobenzene	ND	4.9	1.00	
Dichlorodifluoromethane	ND	4.9	1.00	
1,1-Dichloroethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
1,1-Dichloroethene	ND	4.9	1.00	
c-1,2-Dichloroethene	ND	4.9	1.00	
t-1,2-Dichloroethene	ND	4.9	1.00	
1,2-Dichloropropane	ND	4.9	1.00	
1,3-Dichloropropane	ND	4.9	1.00	
2,2-Dichloropropane	ND	4.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI	Date Received:	06/09/15
601 North McDowell Blvd.	Work Order:	15-06-0697
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: 580 Market Place Shopping Center		Page 5 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	4.9	1.00	
c-1,3-Dichloropropene	ND	4.9	1.00	
t-1,3-Dichloropropene	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
2-Hexanone	ND	49	1.00	
Isopropylbenzene	ND	4.9	1.00	
p-Isopropyltoluene	ND	4.9	1.00	
Methylene Chloride	ND	49	1.00	
4-Methyl-2-Pentanone	ND	49	1.00	
Naphthalene	ND	49	1.00	
n-Propylbenzene	ND	4.9	1.00	
Styrene	ND	4.9	1.00	
1,1,1,2-Tetrachloroethane	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	4.9	1.00	
Tetrachloroethene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
1,2,3-Trichlorobenzene	ND	9.7	1.00	
1,2,4-Trichlorobenzene	ND	4.9	1.00	
1,1,1-Trichloroethane	ND	4.9	1.00	
1,1,2-Trichloroethane	ND	4.9	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	49	1.00	
Trichloroethene	ND	4.9	1.00	
1,2,3-Trichloropropane	ND	4.9	1.00	
1,2,4-Trimethylbenzene	ND	4.9	1.00	
Trichlorofluoromethane	ND	49	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
Vinyl Acetate	ND	49	1.00	
Vinyl Chloride	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.7	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.7	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.7	1.00	
Ethanol	ND	240	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	98	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 6 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	96	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 7 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SV21	15-06-0697-3-A	06/05/15 13:10	Solid	GC/MS BB	06/09/15	06/10/15 02:12	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.2	1.00	
Bromobenzene	ND	5.2	1.00	
Bromochloromethane	ND	5.2	1.00	
Bromodichloromethane	ND	5.2	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	52	1.00	
n-Butylbenzene	ND	5.2	1.00	
sec-Butylbenzene	ND	5.2	1.00	
tert-Butylbenzene	ND	5.2	1.00	
Carbon Disulfide	ND	52	1.00	
Carbon Tetrachloride	ND	5.2	1.00	
Chlorobenzene	ND	5.2	1.00	
Chloroethane	ND	5.2	1.00	
Chloroform	ND	5.2	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.2	1.00	
4-Chlorotoluene	ND	5.2	1.00	
Dibromochloromethane	ND	5.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
Dibromomethane	ND	5.2	1.00	
1,2-Dichlorobenzene	ND	5.2	1.00	
1,3-Dichlorobenzene	ND	5.2	1.00	
1,4-Dichlorobenzene	ND	5.2	1.00	
Dichlorodifluoromethane	ND	5.2	1.00	
1,1-Dichloroethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
1,1-Dichloroethene	ND	5.2	1.00	
c-1,2-Dichloroethene	ND	5.2	1.00	
t-1,2-Dichloroethene	ND	5.2	1.00	
1,2-Dichloropropane	ND	5.2	1.00	
1,3-Dichloropropane	ND	5.2	1.00	
2,2-Dichloropropane	ND	5.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 8 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.2	1.00	
c-1,3-Dichloropropene	ND	5.2	1.00	
t-1,3-Dichloropropene	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
2-Hexanone	ND	52	1.00	
Isopropylbenzene	ND	5.2	1.00	
p-Isopropyltoluene	ND	5.2	1.00	
Methylene Chloride	ND	52	1.00	
4-Methyl-2-Pentanone	ND	52	1.00	
Naphthalene	ND	52	1.00	
n-Propylbenzene	ND	5.2	1.00	
Styrene	ND	5.2	1.00	
1,1,1,2-Tetrachloroethane	ND	5.2	1.00	
1,1,2,2-Tetrachloroethane	ND	5.2	1.00	
Tetrachloroethene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.2	1.00	
1,1,1-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	52	1.00	
Trichloroethene	ND	5.2	1.00	
1,2,3-Trichloropropane	ND	5.2	1.00	
1,2,4-Trimethylbenzene	ND	5.2	1.00	
Trichlorofluoromethane	ND	52	1.00	
1,3,5-Trimethylbenzene	ND	5.2	1.00	
Vinyl Acetate	ND	52	1.00	
Vinyl Chloride	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	260	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	99	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 9 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	102	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 10 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-23.5-SV21	15-06-0697-4-A	06/05/15 13:45	Solid	GC/MS BB	06/09/15	06/10/15 02:40	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.2	1.00	
Bromobenzene	ND	5.2	1.00	
Bromochloromethane	ND	5.2	1.00	
Bromodichloromethane	ND	5.2	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	52	1.00	
n-Butylbenzene	ND	5.2	1.00	
sec-Butylbenzene	ND	5.2	1.00	
tert-Butylbenzene	ND	5.2	1.00	
Carbon Disulfide	ND	52	1.00	
Carbon Tetrachloride	ND	5.2	1.00	
Chlorobenzene	ND	5.2	1.00	
Chloroethane	ND	5.2	1.00	
Chloroform	ND	5.2	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.2	1.00	
4-Chlorotoluene	ND	5.2	1.00	
Dibromochloromethane	ND	5.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
Dibromomethane	ND	5.2	1.00	
1,2-Dichlorobenzene	ND	5.2	1.00	
1,3-Dichlorobenzene	ND	5.2	1.00	
1,4-Dichlorobenzene	ND	5.2	1.00	
Dichlorodifluoromethane	ND	5.2	1.00	
1,1-Dichloroethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
1,1-Dichloroethene	ND	5.2	1.00	
c-1,2-Dichloroethene	ND	5.2	1.00	
t-1,2-Dichloroethene	ND	5.2	1.00	
1,2-Dichloropropane	ND	5.2	1.00	
1,3-Dichloropropane	ND	5.2	1.00	
2,2-Dichloropropane	ND	5.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 11 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.2	1.00	
c-1,3-Dichloropropene	ND	5.2	1.00	
t-1,3-Dichloropropene	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
2-Hexanone	ND	52	1.00	
Isopropylbenzene	ND	5.2	1.00	
p-Isopropyltoluene	ND	5.2	1.00	
Methylene Chloride	ND	52	1.00	
4-Methyl-2-Pentanone	ND	52	1.00	
Naphthalene	ND	52	1.00	
n-Propylbenzene	ND	5.2	1.00	
Styrene	ND	5.2	1.00	
1,1,1,2-Tetrachloroethane	ND	5.2	1.00	
1,1,2,2-Tetrachloroethane	ND	5.2	1.00	
Tetrachloroethene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.2	1.00	
1,1,1-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	52	1.00	
Trichloroethene	ND	5.2	1.00	
1,2,3-Trichloropropane	ND	5.2	1.00	
1,2,4-Trimethylbenzene	ND	5.2	1.00	
Trichlorofluoromethane	ND	52	1.00	
1,3,5-Trimethylbenzene	ND	5.2	1.00	
Vinyl Acetate	ND	52	1.00	
Vinyl Chloride	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	260	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 12 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	99	63-141	
1,2-Dichloroethane-d4	100	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 13 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-4.5-SV23	15-06-0697-5-A	06/05/15 10:20	Solid	GC/MS BB	06/09/15	06/10/15 03:09	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.3	1.00	
Bromobenzene	ND	5.3	1.00	
Bromochloromethane	ND	5.3	1.00	
Bromodichloromethane	ND	5.3	1.00	
Bromoform	ND	5.3	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	53	1.00	
n-Butylbenzene	ND	5.3	1.00	
sec-Butylbenzene	ND	5.3	1.00	
tert-Butylbenzene	ND	5.3	1.00	
Carbon Disulfide	ND	53	1.00	
Carbon Tetrachloride	ND	5.3	1.00	
Chlorobenzene	ND	5.3	1.00	
Chloroethane	ND	5.3	1.00	
Chloroform	ND	5.3	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.3	1.00	
4-Chlorotoluene	ND	5.3	1.00	
Dibromochloromethane	ND	5.3	1.00	
1,2-Dibromo-3-Chloropropane	ND	11	1.00	
1,2-Dibromoethane	ND	5.3	1.00	
Dibromomethane	ND	5.3	1.00	
1,2-Dichlorobenzene	ND	5.3	1.00	
1,3-Dichlorobenzene	ND	5.3	1.00	
1,4-Dichlorobenzene	ND	5.3	1.00	
Dichlorodifluoromethane	ND	5.3	1.00	
1,1-Dichloroethane	ND	5.3	1.00	
1,2-Dichloroethane	ND	5.3	1.00	
1,1-Dichloroethene	ND	5.3	1.00	
c-1,2-Dichloroethene	83	5.3	1.00	
t-1,2-Dichloroethene	ND	5.3	1.00	
1,2-Dichloropropane	ND	5.3	1.00	
1,3-Dichloropropane	ND	5.3	1.00	
2,2-Dichloropropane	ND	5.3	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 14 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.3	1.00	
c-1,3-Dichloropropene	ND	5.3	1.00	
t-1,3-Dichloropropene	ND	5.3	1.00	
Ethylbenzene	ND	5.3	1.00	
2-Hexanone	ND	53	1.00	
Isopropylbenzene	ND	5.3	1.00	
p-Isopropyltoluene	ND	5.3	1.00	
Methylene Chloride	ND	53	1.00	
4-Methyl-2-Pentanone	ND	53	1.00	
Naphthalene	ND	53	1.00	
n-Propylbenzene	ND	5.3	1.00	
Styrene	ND	5.3	1.00	
1,1,1,2-Tetrachloroethane	ND	5.3	1.00	
1,1,2,2-Tetrachloroethane	ND	5.3	1.00	
Tetrachloroethene	ND	5.3	1.00	
Toluene	ND	5.3	1.00	
1,2,3-Trichlorobenzene	ND	11	1.00	
1,2,4-Trichlorobenzene	ND	5.3	1.00	
1,1,1-Trichloroethane	ND	5.3	1.00	
1,1,2-Trichloroethane	ND	5.3	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	53	1.00	
Trichloroethene	ND	5.3	1.00	
1,2,3-Trichloropropane	ND	5.3	1.00	
1,2,4-Trimethylbenzene	ND	5.3	1.00	
Trichlorofluoromethane	ND	53	1.00	
1,3,5-Trimethylbenzene	ND	5.3	1.00	
Vinyl Acetate	ND	53	1.00	
Vinyl Chloride	ND	5.3	1.00	
p/m-Xylene	ND	5.3	1.00	
o-Xylene	ND	5.3	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.3	1.00	
Tert-Butyl Alcohol (TBA)	ND	53	1.00	
Diisopropyl Ether (DIPE)	ND	11	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.00	
Ethanol	ND	260	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 15 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	102	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 16 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SV23	15-06-0697-6-A	06/05/15 10:35	Solid	GC/MS BB	06/09/15	06/10/15 03:37	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 17 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 18 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	102	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 19 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SV23	15-06-0697-7-A	06/05/15 10:40	Solid	GC/MS BB	06/09/15	06/10/15 04:05	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.1	1.00	
Bromobenzene	ND	5.1	1.00	
Bromochloromethane	ND	5.1	1.00	
Bromodichloromethane	ND	5.1	1.00	
Bromoform	ND	5.1	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	51	1.00	
n-Butylbenzene	ND	5.1	1.00	
sec-Butylbenzene	ND	5.1	1.00	
tert-Butylbenzene	ND	5.1	1.00	
Carbon Disulfide	ND	51	1.00	
Carbon Tetrachloride	ND	5.1	1.00	
Chlorobenzene	ND	5.1	1.00	
Chloroethane	ND	5.1	1.00	
Chloroform	ND	5.1	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.1	1.00	
4-Chlorotoluene	ND	5.1	1.00	
Dibromochloromethane	ND	5.1	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
Dibromomethane	ND	5.1	1.00	
1,2-Dichlorobenzene	ND	5.1	1.00	
1,3-Dichlorobenzene	ND	5.1	1.00	
1,4-Dichlorobenzene	ND	5.1	1.00	
Dichlorodifluoromethane	ND	5.1	1.00	
1,1-Dichloroethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
1,1-Dichloroethene	ND	5.1	1.00	
c-1,2-Dichloroethene	ND	5.1	1.00	
t-1,2-Dichloroethene	ND	5.1	1.00	
1,2-Dichloropropane	ND	5.1	1.00	
1,3-Dichloropropane	ND	5.1	1.00	
2,2-Dichloropropane	ND	5.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 20 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.1	1.00	
c-1,3-Dichloropropene	ND	5.1	1.00	
t-1,3-Dichloropropene	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
2-Hexanone	ND	51	1.00	
Isopropylbenzene	ND	5.1	1.00	
p-Isopropyltoluene	ND	5.1	1.00	
Methylene Chloride	ND	51	1.00	
4-Methyl-2-Pentanone	ND	51	1.00	
Naphthalene	ND	51	1.00	
n-Propylbenzene	ND	5.1	1.00	
Styrene	ND	5.1	1.00	
1,1,1,2-Tetrachloroethane	ND	5.1	1.00	
1,1,2,2-Tetrachloroethane	ND	5.1	1.00	
Tetrachloroethene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.1	1.00	
1,1,1-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	51	1.00	
Trichloroethene	ND	5.1	1.00	
1,2,3-Trichloropropane	ND	5.1	1.00	
1,2,4-Trimethylbenzene	ND	5.1	1.00	
Trichlorofluoromethane	ND	51	1.00	
1,3,5-Trimethylbenzene	ND	5.1	1.00	
Vinyl Acetate	ND	51	1.00	
Vinyl Chloride	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	260	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	98	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 21 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	102	62-146	
Toluene-d8	98	80-120	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 22 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-23-SV23	15-06-0697-8-A	06/05/15 11:00	Solid	GC/MS BB	06/09/15	06/10/15 04:34	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	4.9	1.00	
Bromobenzene	ND	4.9	1.00	
Bromochloromethane	ND	4.9	1.00	
Bromodichloromethane	ND	4.9	1.00	
Bromoform	ND	4.9	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	49	1.00	
n-Butylbenzene	ND	4.9	1.00	
sec-Butylbenzene	ND	4.9	1.00	
tert-Butylbenzene	ND	4.9	1.00	
Carbon Disulfide	ND	49	1.00	
Carbon Tetrachloride	ND	4.9	1.00	
Chlorobenzene	ND	4.9	1.00	
Chloroethane	ND	4.9	1.00	
Chloroform	ND	4.9	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	4.9	1.00	
4-Chlorotoluene	ND	4.9	1.00	
Dibromochloromethane	ND	4.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.8	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
Dibromomethane	ND	4.9	1.00	
1,2-Dichlorobenzene	ND	4.9	1.00	
1,3-Dichlorobenzene	ND	4.9	1.00	
1,4-Dichlorobenzene	ND	4.9	1.00	
Dichlorodifluoromethane	ND	4.9	1.00	
1,1-Dichloroethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
1,1-Dichloroethene	ND	4.9	1.00	
c-1,2-Dichloroethene	ND	4.9	1.00	
t-1,2-Dichloroethene	ND	4.9	1.00	
1,2-Dichloropropane	ND	4.9	1.00	
1,3-Dichloropropane	ND	4.9	1.00	
2,2-Dichloropropane	ND	4.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 23 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	4.9	1.00	
c-1,3-Dichloropropene	ND	4.9	1.00	
t-1,3-Dichloropropene	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
2-Hexanone	ND	49	1.00	
Isopropylbenzene	ND	4.9	1.00	
p-Isopropyltoluene	ND	4.9	1.00	
Methylene Chloride	ND	49	1.00	
4-Methyl-2-Pentanone	ND	49	1.00	
Naphthalene	ND	49	1.00	
n-Propylbenzene	ND	4.9	1.00	
Styrene	ND	4.9	1.00	
1,1,1,2-Tetrachloroethane	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	4.9	1.00	
Tetrachloroethene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
1,2,3-Trichlorobenzene	ND	9.8	1.00	
1,2,4-Trichlorobenzene	ND	4.9	1.00	
1,1,1-Trichloroethane	ND	4.9	1.00	
1,1,2-Trichloroethane	ND	4.9	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	49	1.00	
Trichloroethene	ND	4.9	1.00	
1,2,3-Trichloropropane	ND	4.9	1.00	
1,2,4-Trimethylbenzene	ND	4.9	1.00	
Trichlorofluoromethane	ND	49	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
Vinyl Acetate	ND	49	1.00	
Vinyl Chloride	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.8	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.8	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.8	1.00	
Ethanol	ND	250	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 24 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	101	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 25 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-SV24	15-06-0697-9-A	06/05/15 08:00	Solid	GC/MS BB	06/09/15	06/10/15 05:02	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.3	1.00	
Bromobenzene	ND	5.3	1.00	
Bromochloromethane	ND	5.3	1.00	
Bromodichloromethane	ND	5.3	1.00	
Bromoform	ND	5.3	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	53	1.00	
n-Butylbenzene	ND	5.3	1.00	
sec-Butylbenzene	ND	5.3	1.00	
tert-Butylbenzene	ND	5.3	1.00	
Carbon Disulfide	ND	53	1.00	
Carbon Tetrachloride	ND	5.3	1.00	
Chlorobenzene	ND	5.3	1.00	
Chloroethane	ND	5.3	1.00	
Chloroform	ND	5.3	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.3	1.00	
4-Chlorotoluene	ND	5.3	1.00	
Dibromochloromethane	ND	5.3	1.00	
1,2-Dibromo-3-Chloropropane	ND	11	1.00	
1,2-Dibromoethane	ND	5.3	1.00	
Dibromomethane	ND	5.3	1.00	
1,2-Dichlorobenzene	ND	5.3	1.00	
1,3-Dichlorobenzene	ND	5.3	1.00	
1,4-Dichlorobenzene	ND	5.3	1.00	
Dichlorodifluoromethane	ND	5.3	1.00	
1,1-Dichloroethane	ND	5.3	1.00	
1,2-Dichloroethane	ND	5.3	1.00	
1,1-Dichloroethene	ND	5.3	1.00	
c-1,2-Dichloroethene	ND	5.3	1.00	
t-1,2-Dichloroethene	ND	5.3	1.00	
1,2-Dichloropropane	ND	5.3	1.00	
1,3-Dichloropropane	ND	5.3	1.00	
2,2-Dichloropropane	ND	5.3	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 26 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.3	1.00	
c-1,3-Dichloropropene	ND	5.3	1.00	
t-1,3-Dichloropropene	ND	5.3	1.00	
Ethylbenzene	ND	5.3	1.00	
2-Hexanone	ND	53	1.00	
Isopropylbenzene	ND	5.3	1.00	
p-Isopropyltoluene	ND	5.3	1.00	
Methylene Chloride	ND	53	1.00	
4-Methyl-2-Pentanone	ND	53	1.00	
Naphthalene	ND	53	1.00	
n-Propylbenzene	ND	5.3	1.00	
Styrene	ND	5.3	1.00	
1,1,1,2-Tetrachloroethane	ND	5.3	1.00	
1,1,2,2-Tetrachloroethane	ND	5.3	1.00	
Tetrachloroethene	ND	5.3	1.00	
Toluene	ND	5.3	1.00	
1,2,3-Trichlorobenzene	ND	11	1.00	
1,2,4-Trichlorobenzene	ND	5.3	1.00	
1,1,1-Trichloroethane	ND	5.3	1.00	
1,1,2-Trichloroethane	ND	5.3	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	53	1.00	
Trichloroethene	ND	5.3	1.00	
1,2,3-Trichloropropane	ND	5.3	1.00	
1,2,4-Trimethylbenzene	ND	5.3	1.00	
Trichlorofluoromethane	ND	53	1.00	
1,3,5-Trimethylbenzene	ND	5.3	1.00	
Vinyl Acetate	ND	53	1.00	
Vinyl Chloride	ND	5.3	1.00	
p/m-Xylene	ND	5.3	1.00	
o-Xylene	ND	5.3	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.3	1.00	
Tert-Butyl Alcohol (TBA)	ND	53	1.00	
Diisopropyl Ether (DIPE)	ND	11	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.00	
Ethanol	ND	260	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 27 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 28 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-SV24	15-06-0697-10-A	06/05/15 08:20	Solid	GC/MS BB	06/09/15	06/10/15 05:31	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 29 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 30 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	103	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 31 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-SV24	15-06-0697-11-A	06/05/15 08:30	Solid	GC/MS BB	06/09/15	06/10/15 05:59	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	4.9	1.00	
Bromobenzene	ND	4.9	1.00	
Bromochloromethane	ND	4.9	1.00	
Bromodichloromethane	ND	4.9	1.00	
Bromoform	ND	4.9	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	49	1.00	
n-Butylbenzene	ND	4.9	1.00	
sec-Butylbenzene	ND	4.9	1.00	
tert-Butylbenzene	ND	4.9	1.00	
Carbon Disulfide	ND	49	1.00	
Carbon Tetrachloride	ND	4.9	1.00	
Chlorobenzene	ND	4.9	1.00	
Chloroethane	ND	4.9	1.00	
Chloroform	ND	4.9	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	4.9	1.00	
4-Chlorotoluene	ND	4.9	1.00	
Dibromochloromethane	ND	4.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.9	1.00	
1,2-Dibromoethane	ND	4.9	1.00	
Dibromomethane	ND	4.9	1.00	
1,2-Dichlorobenzene	ND	4.9	1.00	
1,3-Dichlorobenzene	ND	4.9	1.00	
1,4-Dichlorobenzene	ND	4.9	1.00	
Dichlorodifluoromethane	ND	4.9	1.00	
1,1-Dichloroethane	ND	4.9	1.00	
1,2-Dichloroethane	ND	4.9	1.00	
1,1-Dichloroethene	ND	4.9	1.00	
c-1,2-Dichloroethene	ND	4.9	1.00	
t-1,2-Dichloroethene	ND	4.9	1.00	
1,2-Dichloropropane	ND	4.9	1.00	
1,3-Dichloropropane	ND	4.9	1.00	
2,2-Dichloropropane	ND	4.9	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI	Date Received:	06/09/15
601 North McDowell Blvd.	Work Order:	15-06-0697
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: 580 Market Place Shopping Center		Page 32 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	4.9	1.00	
c-1,3-Dichloropropene	ND	4.9	1.00	
t-1,3-Dichloropropene	ND	4.9	1.00	
Ethylbenzene	ND	4.9	1.00	
2-Hexanone	ND	49	1.00	
Isopropylbenzene	ND	4.9	1.00	
p-Isopropyltoluene	ND	4.9	1.00	
Methylene Chloride	ND	49	1.00	
4-Methyl-2-Pentanone	ND	49	1.00	
Naphthalene	ND	49	1.00	
n-Propylbenzene	ND	4.9	1.00	
Styrene	ND	4.9	1.00	
1,1,1,2-Tetrachloroethane	ND	4.9	1.00	
1,1,2,2-Tetrachloroethane	ND	4.9	1.00	
Tetrachloroethene	ND	4.9	1.00	
Toluene	ND	4.9	1.00	
1,2,3-Trichlorobenzene	ND	9.9	1.00	
1,2,4-Trichlorobenzene	ND	4.9	1.00	
1,1,1-Trichloroethane	ND	4.9	1.00	
1,1,2-Trichloroethane	ND	4.9	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	49	1.00	
Trichloroethene	ND	4.9	1.00	
1,2,3-Trichloropropane	ND	4.9	1.00	
1,2,4-Trimethylbenzene	ND	4.9	1.00	
Trichlorofluoromethane	ND	49	1.00	
1,3,5-Trimethylbenzene	ND	4.9	1.00	
Vinyl Acetate	ND	49	1.00	
Vinyl Chloride	ND	4.9	1.00	
p/m-Xylene	ND	4.9	1.00	
o-Xylene	ND	4.9	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	4.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	49	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	250	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	99	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 33 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	102	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 34 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-20-SV24	15-06-0697-12-A	06/05/15 08:35	Solid	GC/MS BB	06/09/15	06/10/15 06:28	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.1	1.00	
Bromobenzene	ND	5.1	1.00	
Bromochloromethane	ND	5.1	1.00	
Bromodichloromethane	ND	5.1	1.00	
Bromoform	ND	5.1	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	51	1.00	
n-Butylbenzene	ND	5.1	1.00	
sec-Butylbenzene	ND	5.1	1.00	
tert-Butylbenzene	ND	5.1	1.00	
Carbon Disulfide	ND	51	1.00	
Carbon Tetrachloride	ND	5.1	1.00	
Chlorobenzene	ND	5.1	1.00	
Chloroethane	ND	5.1	1.00	
Chloroform	ND	5.1	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.1	1.00	
4-Chlorotoluene	ND	5.1	1.00	
Dibromochloromethane	ND	5.1	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.1	1.00	
Dibromomethane	ND	5.1	1.00	
1,2-Dichlorobenzene	ND	5.1	1.00	
1,3-Dichlorobenzene	ND	5.1	1.00	
1,4-Dichlorobenzene	ND	5.1	1.00	
Dichlorodifluoromethane	ND	5.1	1.00	
1,1-Dichloroethane	ND	5.1	1.00	
1,2-Dichloroethane	ND	5.1	1.00	
1,1-Dichloroethene	ND	5.1	1.00	
c-1,2-Dichloroethene	ND	5.1	1.00	
t-1,2-Dichloroethene	ND	5.1	1.00	
1,2-Dichloropropane	ND	5.1	1.00	
1,3-Dichloropropane	ND	5.1	1.00	
2,2-Dichloropropane	ND	5.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 35 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.1	1.00	
c-1,3-Dichloropropene	ND	5.1	1.00	
t-1,3-Dichloropropene	ND	5.1	1.00	
Ethylbenzene	ND	5.1	1.00	
2-Hexanone	ND	51	1.00	
Isopropylbenzene	ND	5.1	1.00	
p-Isopropyltoluene	ND	5.1	1.00	
Methylene Chloride	ND	51	1.00	
4-Methyl-2-Pentanone	ND	51	1.00	
Naphthalene	ND	51	1.00	
n-Propylbenzene	ND	5.1	1.00	
Styrene	ND	5.1	1.00	
1,1,1,2-Tetrachloroethane	ND	5.1	1.00	
1,1,2,2-Tetrachloroethane	ND	5.1	1.00	
Tetrachloroethene	ND	5.1	1.00	
Toluene	ND	5.1	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.1	1.00	
1,1,1-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloroethane	ND	5.1	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	51	1.00	
Trichloroethene	ND	5.1	1.00	
1,2,3-Trichloropropane	ND	5.1	1.00	
1,2,4-Trimethylbenzene	ND	5.1	1.00	
Trichlorofluoromethane	ND	51	1.00	
1,3,5-Trimethylbenzene	ND	5.1	1.00	
Vinyl Acetate	ND	51	1.00	
Vinyl Chloride	ND	5.1	1.00	
p/m-Xylene	ND	5.1	1.00	
o-Xylene	ND	5.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.1	1.00	
Tert-Butyl Alcohol (TBA)	ND	51	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	60-132	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 36 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	102	63-141	
1,2-Dichloroethane-d4	104	62-146	
Toluene-d8	97	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 37 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-25-SV24	15-06-0697-13-A	06/05/15 09:15	Solid	GC/MS BB	06/09/15	06/10/15 06:56	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.9	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 38 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	9.9	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	250	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 39 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	103	62-146	
Toluene-d8	98	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 40 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-27.5-SV24	15-06-0697-14-A	06/05/15 09:20	Solid	GC/MS BB	06/09/15	06/10/15 07:24	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	130	1.00	
Benzene	ND	5.2	1.00	
Bromobenzene	ND	5.2	1.00	
Bromochloromethane	ND	5.2	1.00	
Bromodichloromethane	ND	5.2	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	26	1.00	
2-Butanone	ND	52	1.00	
n-Butylbenzene	ND	5.2	1.00	
sec-Butylbenzene	ND	5.2	1.00	
tert-Butylbenzene	ND	5.2	1.00	
Carbon Disulfide	ND	52	1.00	
Carbon Tetrachloride	ND	5.2	1.00	
Chlorobenzene	ND	5.2	1.00	
Chloroethane	ND	5.2	1.00	
Chloroform	ND	5.2	1.00	
Chloromethane	ND	26	1.00	
2-Chlorotoluene	ND	5.2	1.00	
4-Chlorotoluene	ND	5.2	1.00	
Dibromochloromethane	ND	5.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.2	1.00	
Dibromomethane	ND	5.2	1.00	
1,2-Dichlorobenzene	ND	5.2	1.00	
1,3-Dichlorobenzene	ND	5.2	1.00	
1,4-Dichlorobenzene	ND	5.2	1.00	
Dichlorodifluoromethane	ND	5.2	1.00	
1,1-Dichloroethane	ND	5.2	1.00	
1,2-Dichloroethane	ND	5.2	1.00	
1,1-Dichloroethene	ND	5.2	1.00	
c-1,2-Dichloroethene	ND	5.2	1.00	
t-1,2-Dichloroethene	ND	5.2	1.00	
1,2-Dichloropropane	ND	5.2	1.00	
1,3-Dichloropropane	ND	5.2	1.00	
2,2-Dichloropropane	ND	5.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 41 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.2	1.00	
c-1,3-Dichloropropene	ND	5.2	1.00	
t-1,3-Dichloropropene	ND	5.2	1.00	
Ethylbenzene	ND	5.2	1.00	
2-Hexanone	ND	52	1.00	
Isopropylbenzene	ND	5.2	1.00	
p-Isopropyltoluene	ND	5.2	1.00	
Methylene Chloride	ND	52	1.00	
4-Methyl-2-Pentanone	ND	52	1.00	
Naphthalene	ND	52	1.00	
n-Propylbenzene	ND	5.2	1.00	
Styrene	ND	5.2	1.00	
1,1,1,2-Tetrachloroethane	ND	5.2	1.00	
1,1,2,2-Tetrachloroethane	ND	5.2	1.00	
Tetrachloroethene	ND	5.2	1.00	
Toluene	ND	5.2	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.2	1.00	
1,1,1-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloroethane	ND	5.2	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	52	1.00	
Trichloroethene	ND	5.2	1.00	
1,2,3-Trichloropropane	ND	5.2	1.00	
1,2,4-Trimethylbenzene	ND	5.2	1.00	
Trichlorofluoromethane	ND	52	1.00	
1,3,5-Trimethylbenzene	ND	5.2	1.00	
Vinyl Acetate	ND	52	1.00	
Vinyl Chloride	ND	5.2	1.00	
p/m-Xylene	ND	5.2	1.00	
o-Xylene	ND	5.2	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	52	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	260	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 42 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	104	63-141	
1,2-Dichloroethane-d4	105	62-146	
Toluene-d8	98	80-120	


Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 43 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-9811	N/A	Solid	GC/MS BB	06/09/15	06/09/15 23:21	150609L054

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.9	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 44 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	9.9	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	250	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	60-132		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/kg

Project: 580 Market Place Shopping Center

Page 45 of 45

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	101	62-146	
Toluene-d8	99	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-5.5-SV21	Sample	Solid	GC 24	06/09/15	06/11/15 12:20	150611S019
S-5.5-SV21	Matrix Spike	Solid	GC 24	06/09/15	06/11/15 12:54	150611S019
S-5.5-SV21	Matrix Spike Duplicate	Solid	GC 24	06/09/15	06/11/15 13:28	150611S019

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	10.00	7.853	79	7.761	78	48-114	1	0-23	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0965-1	Sample	Solid	GC 24	06/11/15	06/13/15 01:45	150611S041
15-06-0965-1	Matrix Spike	Solid	GC 24	06/11/15	06/13/15 02:19	150611S041
15-06-0965-1	Matrix Spike Duplicate	Solid	GC 24	06/11/15	06/13/15 02:53	150611S041

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	10.00	8.695	87	8.784	88	48-114	1	0-23	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-5.5-SV21	Sample	Solid	GC/MS BB	06/09/15	06/09/15 23:49	150609S031
S-5.5-SV21	Matrix Spike	Solid	GC/MS BB	06/09/15	06/10/15 00:18	150609S031
S-5.5-SV21	Matrix Spike Duplicate	Solid	GC/MS BB	06/09/15	06/10/15 00:46	150609S031

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	38.94	78	39.20	78	61-127	1	0-20	
Carbon Tetrachloride	ND	50.00	36.96	74	37.22	74	51-135	1	0-29	
Chlorobenzene	ND	50.00	37.08	74	37.32	75	57-123	1	0-20	
1,2-Dibromoethane	ND	50.00	42.27	85	42.32	85	64-124	0	0-20	
1,2-Dichlorobenzene	ND	50.00	36.79	74	35.70	71	35-131	3	0-25	
1,2-Dichloroethane	ND	50.00	41.52	83	42.12	84	80-120	1	0-20	
1,1-Dichloroethene	ND	50.00	35.03	70	36.43	73	47-143	4	0-25	
Ethylbenzene	ND	50.00	39.71	79	39.86	80	57-129	0	0-22	
Toluene	ND	50.00	38.10	76	38.19	76	63-123	0	0-20	
Trichloroethene	ND	50.00	41.05	82	40.56	81	44-158	1	0-20	
Vinyl Chloride	ND	50.00	41.44	83	40.15	80	49-139	3	0-47	
p/m-Xylene	ND	100.0	78.78	79	78.64	79	70-130	0	0-30	
o-Xylene	ND	50.00	37.29	75	37.08	74	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	41.64	83	43.57	87	57-123	5	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	235.7	94	258.0	103	30-168	9	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	41.59	83	42.85	86	57-129	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	43.17	86	44.39	89	55-127	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	42.49	85	42.77	86	58-124	1	0-20	
Ethanol	ND	500.0	413.5	83	446.5	89	17-167	8	0-47	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-571-2402	LCS	Solid	GC 24	06/11/15	06/11/15 11:46	150611L032
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		10.00	9.337	93	70-124	



Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: 580 Market Place Shopping Center

Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-571-2409	LCS	Solid	GC 24	06/11/15	06/12/15 17:16	150611L063
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		10.00	9.303	93	70-124	



Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/09/15
Work Order: 15-06-0697
Preparation: EPA 5030C
Method: EPA 8260B

Project: 580 Market Place Shopping Center

Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
099-12-796-9811	LCS	Solid	GC/MS BB	06/09/15	06/09/15 22:23	150609L054	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	46.24	92	78-120	71-127	
Carbon Tetrachloride		50.00	44.27	89	49-139	34-154	
Chlorobenzene		50.00	46.35	93	79-120	72-127	
1,2-Dibromoethane		50.00	51.86	104	80-120	73-127	
1,2-Dichlorobenzene		50.00	48.02	96	75-120	68-128	
1,2-Dichloroethane		50.00	49.60	99	80-120	73-127	
1,1-Dichloroethene		50.00	41.55	83	74-122	66-130	
Ethylbenzene		50.00	49.24	98	76-120	69-127	
Toluene		50.00	46.13	92	77-120	70-127	
Trichloroethene		50.00	47.96	96	80-120	73-127	
Vinyl Chloride		50.00	47.40	95	68-122	59-131	
p/m-Xylene		100.0	97.19	97	75-125	67-133	
o-Xylene		50.00	46.09	92	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)		50.00	49.48	99	77-120	70-127	
Tert-Butyl Alcohol (TBA)		250.0	276.6	111	68-122	59-131	
Diisopropyl Ether (DIPE)		50.00	50.41	101	78-120	71-127	
Ethyl-t-Butyl Ether (ETBE)		50.00	51.86	104	78-120	71-127	
Tert-Amyl-Methyl Ether (TAME)		50.00	50.50	101	75-120	68-128	
Ethanol		500.0	473.4	95	56-140	42-154	

Total number of LCS compounds: 19

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 15-06-0697

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8015B (M)	EPA 5030C	715	GC 24	2
EPA 8260B	EPA 5030C	975	GC/MS BB	2

Glossary of Terms and Qualifiers

Work Order: 15-06-0697

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
15-06-0697

DATE: 6/15/15
PAGE: 1 OF 2

LABORATORY CLIENT: **Cardno ATC**
ADDRESS: 701 University Avenue Suite 200
CITY: Sacramento STATE: CA ZIP: 95825

CLIENT PROJECT NAME / NUMBER:
580 Market Place Shopping Center / Cardno ATC
Project # Z075000152
PROJECT CONTACT: Gabe Stivala
SAMPLER(S): (PRINT) *Nadya Vicente*

TEL: 916-386-3870 E-MAIL: gabe.stivala@cardno.com

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

Please check box or fill in blank as needed.

GLOBAL ID: **T10000004345** LOG CODE:

SPECIAL INSTRUCTIONS:
**VOCs include halogenated volatile organic compounds (HVOCs)
***Oxys by 8260B: MTBE, TBA, TAME, ETBE, and DIPE
Please email PDF files to: norcallabs@eri-us.com

<input checked="" type="checkbox"/> TPH(g) (80155)	<input checked="" type="checkbox"/> Full Scan VOCs (8260B)**	<input checked="" type="checkbox"/> BTEX 8260B <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> MTBE/TBA 8260B	<input checked="" type="checkbox"/> Oxygenates (8260B)***	<input checked="" type="checkbox"/> Lead Scavengers (1,2-DCA and EDB) (8260B)	<input checked="" type="checkbox"/> Napthalene (8260B)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270C <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 8010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7198 <input type="checkbox"/> 218.6
--	--	--	--	---	---	--	--	--------------------------------------	--	---	--

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input checked="" type="checkbox"/> TPH(g) (80155)	<input checked="" type="checkbox"/> Full Scan VOCs (8260B)**	<input checked="" type="checkbox"/> BTEX 8260B <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> MTBE/TBA 8260B	<input checked="" type="checkbox"/> Oxygenates (8260B)***	<input checked="" type="checkbox"/> Lead Scavengers (1,2-DCA and EDB) (8260B)	<input checked="" type="checkbox"/> Napthalene (8260B)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270C <input type="checkbox"/> 8270 SIM	<input type="checkbox"/> T22 Metals <input type="checkbox"/> 8010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7198 <input type="checkbox"/> 218.6		
			DATE	TIME																			
1	S-5.5-SV21	SV-21	6/5/2015	1300	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	S-10-SV21	SV-21	6/5/2015	1305	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	S-15-SV21	SV-21	6/5/2015	1310	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	S-23.5-SV21	SV-21	6/5/2015	1345	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	S-4.5-SV23	SV-23	6/5/2015	1020	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	S-10-SV23	SV-23	6/5/2015	1035	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	S-15-SV23	SV-23	6/5/2015	1040	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	S-23-SV23	SV-23	6/5/2015	1100	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	S-5-SV24	SV-24	6/5/2015	0800	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	S-10-SV24	SV-24	6/5/2015	0820	S	1				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Relinquished by: (Signature) *[Signature]*

Received by: (Signature/Affiliation) *To O'Malley ECI*

Date: 6/8/15 Time: 1055

Relinquished by: (Signature) *To O'Malley to GSO 6/8/15 1730*

Received by: (Signature/Affiliation) *[Signature] ECI*

Date: 6/9/15 Time: 1030

Relinquished by: (Signature)

Received by: (Signature/Affiliation)

Date: Time:



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WG #7-LAB USE ONLY
15-06-0697

DATE: 6/5/15
PAGE: 2 OF 2

LABORATORY CLIENT: **Cardno ATC**

ADDRESS: 701 University Avenue Suite 200

CITY: Sacramento STATE: CA ZIP: 95825

TEL: 916-386-3870 E-MAIL: gabe.stivala@cardno.com

CLIENT PROJECT NAME / NUMBER: 580 Market Place Shopping Center / Cardno ATC
Project # Z075000152

P.O. NO.:

PROJECT CONTACT: Gabe Stivala

SAMPLER(S): (PRINT) Nadya Vicente

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID: T10000004345 LOG CODE:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

Unpreserved	Preserved	Field Filtered	<input checked="" type="checkbox"/> TPH(g) (8015B)	Full Scan VOCs (8260B)**	BTEX 8260B <input checked="" type="checkbox"/>	MTBE/TBA 8260B	Oxygenates (8260B)***	Lead Scavengers (1,2-DCA and EDB) (8260B)	Napthalene (8260B)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270C <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010747X <input type="checkbox"/> 6020747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
			x	x	x	x	x	x	x					
			x	x	x	x	x	x	x					
			x	x	x	x	x	x	x					
			x	x	x	x	x	x	x					

SPECIAL INSTRUCTIONS:

**VOCs include halogenated volatile organic compounds (HVOCs)

***Oxys by 8260B: MTBE, TBA, TAME, ETBE, and DIPE

Please email PDF files to: norcallabs@eri-us.com

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
			DATE	TIME					
11	S-15-SV24	SV-24	6/5/2015	0830	S	1			
12	S-20-SV24	SV-24	6/5/2015	0835	S	1			
13	S-25-SV24	SV-24	6/5/2015	0915	S	1			
14	S-27.5-SV24	SV-24	6/5/2015	0920	S	1			

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>Tom O'Malley ECI</i>	Date: 6/8/15	Time: 1055
Relinquished by: (Signature) <i>Tom O'Malley to GSO 6/8/15 1730</i>	Received by: (Signature/Affiliation) <i>[Signature] ECI</i>	Date: 6/9/15	Time: 1030
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

Page 62 of 64



800-322-5555 www.gso.com

0697

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Tracking #: 528191457

NPS



Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

ORC
GARDEN GROVE

A

COD: \$0.00
Weight: 0 lb(s)
Reference:
CARDNO ERI
Delivery Instructions:

D92845A



38660565

Signature Type: REQUIRED

Print Date: 6/8/2015 3:12 PM

Package 2 of 2

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

Return to Contents

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Cardno ATC

DATE: 06/9/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)
 Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2-3 °C (w/ CF): 2.0 °C; Blank Sample
 Sample(s) outside temperature criteria (PM/APM contacted by: _____)
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
 Sample(s) received at ambient temperature; placed on ice for transport by courier
 Ambient Temperature: Air Filter

Checked by: 836

CUSTODY SEAL:

Cooler Present and Intact Present but Not Intact Not Present N/A
 Sample(s) Present and Intact Present but Not Intact Not Present N/A

Checked by: 836

Checked by: 1013

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB
 125PBz_{na} 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs
 500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (u/p) EnCores® (____) TerraCores® (____) _____
Air: Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 1013

s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH

Reviewed by: 836



Calscience



WORK ORDER NUMBER: 15-06-1170

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: 580 Market Place Shopping Center

Attention: Gabe Stivala
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Amanda Porter

Approved for release on 07/08/2015 by:
Amanda Porter
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Calscience

Contents

Client Project Name: 580 Market Place Shopping Center
Work Order Number: 15-06-1170

1	Work Order Narrative.	3
2	Subcontract Narrative.	4
3	Subcontract Report.	5

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/16/15. They were assigned to Work Order 15-06-1170.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Calscience

Subcontractor Analysis Report

Work Order: 15-06-1170

Page 1 of 1

One or more samples in this work order have tests that were subcontracted. The subcontract report(s) follows.

For subcontracted tests, please reference the laboratory information noted below.

1. Core Laboratories - Bakersfield, CA ISO 9001:2000, CERT-0014993, CA ELAP 1247
Geotechnical Testing


Return to Contents



Petroleum Services Division
3437 Landco Dr.
Bakersfield, California 93308
Tel: 661-325-5657
Fax: 661-325-5808
www.corelab.com

July 2, 2015

Amanda Porter
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Subject: Vapor Transport / Intrusion Analysis
Project:15-06-1170
CL File No: 415028EN

Dear Ms Porter:

The attached file presents the final vapor transport/intrusion results for two soil samples submitted from your Project #15-06-1170.

Appropriate ASTM, EPA or API methodologies were used for this project and SOP's are available on request. The sample for this project is currently in storage and will be retained for thirty days past completion of testing at no charge. At the end of thirty days, the sample will be disposed. This electronic version of the report will constitute the final report unless otherwise instructed. You may contact me regarding continued storage, disposal, or return of the sample.

Thank you for this opportunity to be of service to Eurofins Calscience, Inc. Please do not hesitate to contact us at (661-325-5657) if you have any questions regarding these results or if we can be of any additional service.

Sincerely,
Core Laboratories

Stephen Carter
Senior Core Analyst

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, expressed or implied, as to the productivity, proper operations or profitability, however, of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.



PHYSICAL PROPERTIES DATA - VAPOR TRANSPORT PACKAGE

Petroleum Services

Eurofins Calscience, Inc.
 Project Name: CATC #Z075000152
 Project No: 15-06-1170

Core Lab File No: 415028EN

Sample ID	Depth, ft.	Sample Orientation ¹	METHODS: ASTM D2216		API RP40		API RP40			ASTM D425M	API RP40	WALKLEY-BLACK	
			Moisture Content		Density, g/cc		Porosity, cc/cc ²				Total Pore Fluid ³ Saturations, % Pv	Total Organic Carbon, mg/kg	Fraction Organic Carbon, g/g
			% weight	cc/cc	Bulk (Dry)	Grain	Total	Air Filled	Water Filled	Effective			
S-6-Shelby23	N/A	V	16.66	0.288	1.73	2.67	0.352	0.064	0.288	0.014	81.8	7600	7.60E-03
S-6-Shelby24	N/A	V	11.79	0.237	2.01	2.65	0.242	0.005	0.237	0.058	97.9	9100	9.10E-03

(1) Sample Orientation: H = horizontal; V = vertical

(2) Total Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids, native sample; Effective = drainage porosity

(3) As-received water+ NAPL; Water = 0.9996 g/cc, NAPL= 0.800 g/cc

Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected



PERMEABILITY DATA

PETROLEUM SERVICES

Eurofins Calscience, Inc.

Core Lab File No: 415028EN

Project Name: CATC #Z075000152

Project No: 15-06-1170

METHODS: API RP 40 API RP 40 API RP 40; ASTM D5084; EPA 9100

Sample ID.	Depth, ft.	Sample Orientation ¹	100 psi Confining Stress			
			Effective ² Permeability to Air, millidarcy	Specific ³ Permeability to Air, millidarcy	Effective ⁴ Permeability to Water, millidarcy	Saturated Hydraulic Conductivity, ⁴ cm/s
S-6-Shelby23	N/A	V	6.27	3689	0.0103	1.02E-08
S-6-Shelby24	N/A	V	85.0	3281	0.192	1.90E-07

(1) Sample Orientation: H = horizontal; V = vertical

(2) Native State or Effective = With as-received pore fluids in place

(3) Specific = all pore fluids removed

(4) Permeability to water and hydraulic conductivity measured at saturated conditions



ATTERBERG LIMITS AND SOIL CLASSIFICATION DATA

PETROLEUM SERVICES

Eurofins Calscience, Inc.

Core Lab File No: 415028EN

Project Name: CATC #Z075000152

Project No: 15-06-1170

Sample ID	Depth, ft.	METHODS: ASTM D4318			ASTM D4318	ASTM D2487	USDA
		Atterberg Limits ¹			USCS / Plasticity Chart Symbol (Fines: <#40 Sieve)	USCS Classification Group Symbol: Name	USDA/SCS ² Soil Texture Scheme
		Liquid Limit	Plastic Limit	Plasticity index			
S-6-Shelby23	N/A	37	17	20	CL	Lean Clay with Sand	Loam
S-6-Shelby24	N/A	23	15	8	CL	Sandy Lean Clay	Loam

USCS: Unified Soil Classification System

USDA: US Department of Agriculture

SCS: Soil Conservation Service

(1) Silt assumed as fine fraction for NON-PLASTIC (NP) samples.

(2) Sand considered to be >No. 200 sieve for USDA SOIL TEXTURE SCHEME.



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Eurofins Calscience, Inc.

Core Lab File No: 415028EN

Project Name: CATC #Z075000152

Project No: 15-06-1170

Sample ID	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages								Silt & Clay
			Gravel	Sand Size					Clay		
				VCoarse	Coarse	Medium	Fine	VFine		Silt	
S-6-Shelby23	silt	0.019	0.00	0.00	0.00	3.62	10.92	13.78	48.77	22.90	71.7
S-6-Shelby24	silt	0.033	0.00	0.00	1.36	8.97	12.43	15.26	43.51	18.46	62.0

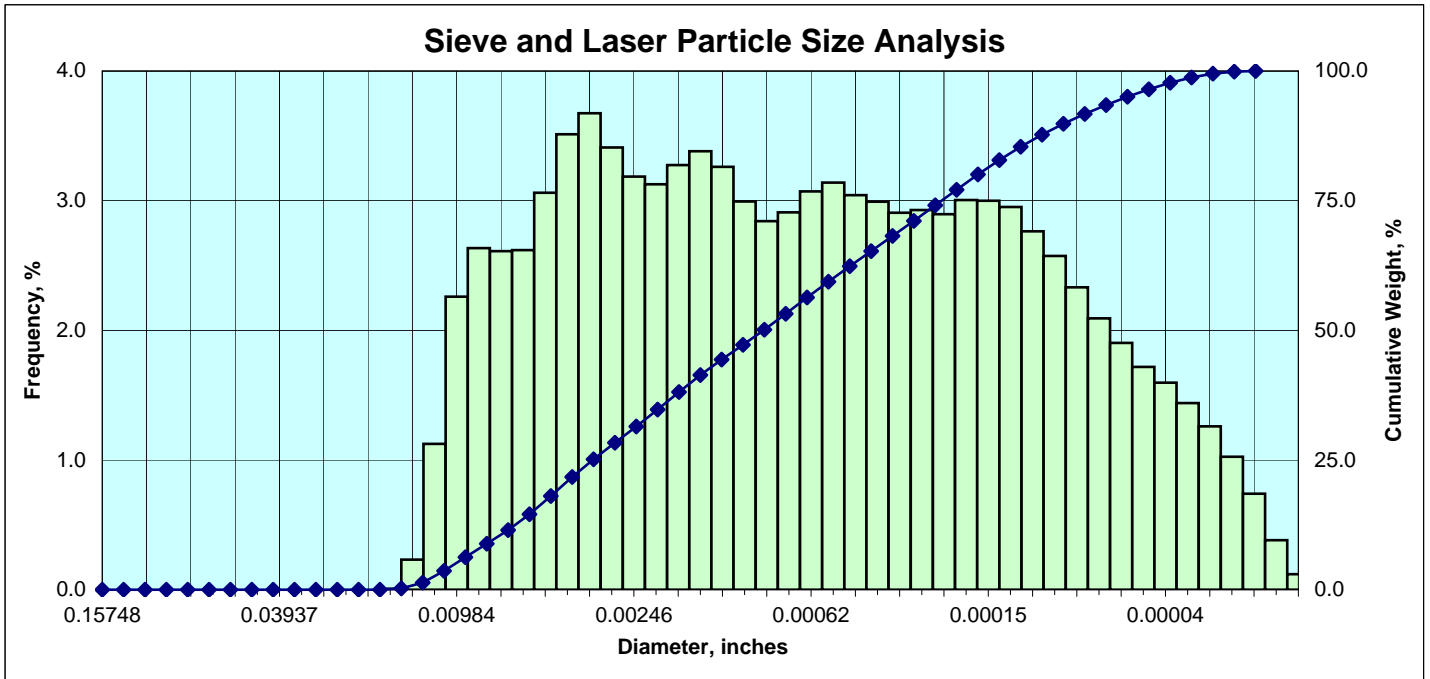


Company : Eurofins Calscience
 Project Name : CATC #Z075000152
 Project Number : 15-06-1170

C.L. File No. : 57111-415028EN
 Date : 6/22/2015

Sieve and Laser Particle Size Analysis

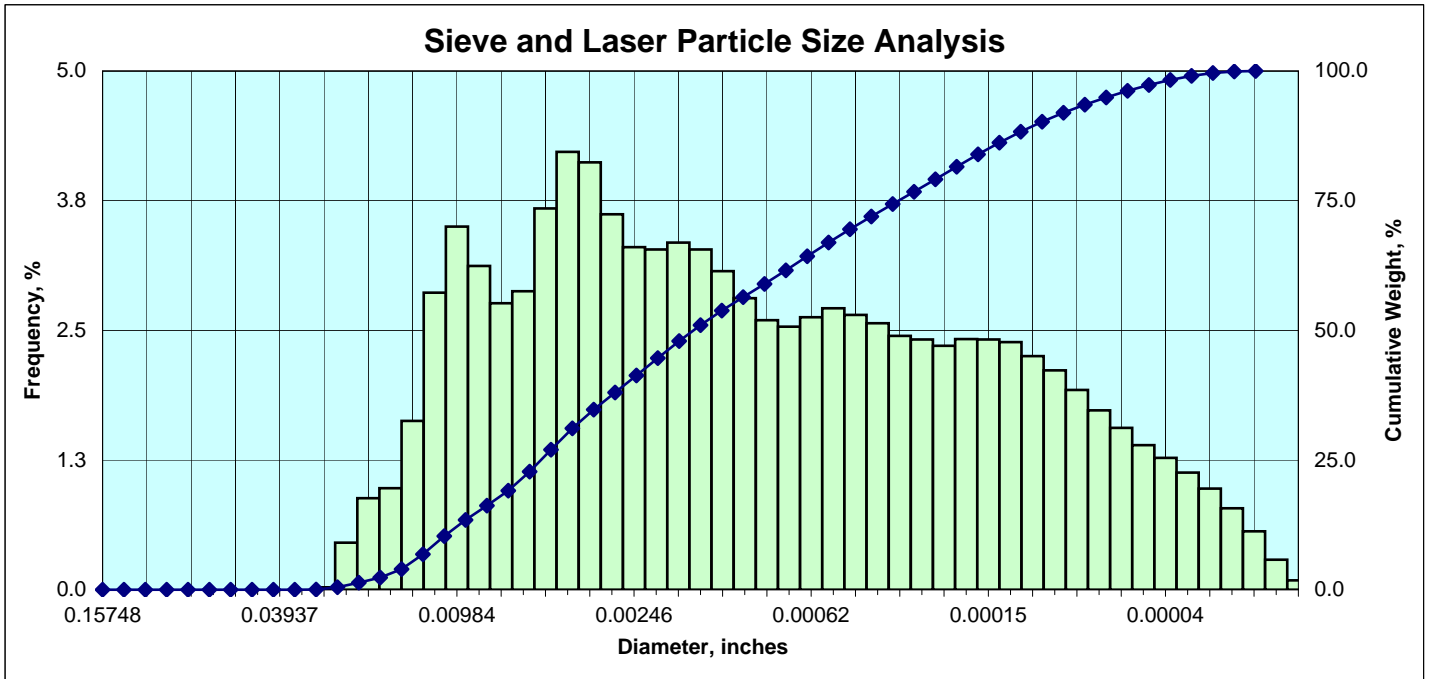
Sample ID	Component Percentages								Percentiles										Sorting Statistics (Folk)				
	Gravel	Sand					Fines		Particle Diameter (in)										Median in	Mean in	Sorting ϕ	Skew.	Kurt.
		vcgr	cgr	mgr	fgr	vfgr	silt	clay	5	10	16	25	40	50	75	84	90	95					
S-6-Shelby23	0.00	0.00	0.00	3.62	10.92	13.78	48.77	22.90	0.0090 fgr	0.0064 fgr	0.0046 vfgr	0.0029 vfgr	0.0013 silt	0.0007 silt	0.0002 clay	0.0001 clay	0.0001 clay	0.0000 clay	0.001 silt	0.001 silt	2.567 v. Poor	0.062 near sym.	0.789 platykurtic
S-6-Shelby24	0.00	0.00	1.36	8.97	12.43	15.26	43.51	18.46	0.0130 mgr	0.0100 fgr	0.0070 fgr	0.0045 vfgr	0.0022 silt	0.0013 silt	0.0002 silt	0.0001 clay	0.0001 clay	0.0000 clay	0.001 silt	0.001 silt	2.681 v. Poor	0.173 fine	0.800 platykurtic



	Particle Size Distribution					
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.000	0.00
	30	0.023410	0.59460	0.75	0.000	0.00
	35	0.019685	0.50000	1.00	0.000	0.00
Medium Sand	40	0.016553	0.42045	1.25	0.008	0.01
	45	0.013919	0.35355	1.50	0.232	0.24
	50	0.011705	0.29730	1.75	1.125	1.36
	60	0.009843	0.25000	2.00	2.260	3.62
Fine Sand	70	0.008277	0.21022	2.25	2.634	6.26
	80	0.006960	0.17678	2.50	2.610	8.87
	100	0.005852	0.14865	2.75	2.619	11.49
	120	0.004921	0.12500	3.00	3.061	14.55
V. Fine Sand	140	0.004138	0.10511	3.25	3.512	18.06
	170	0.003480	0.08839	3.50	3.674	21.73
	200	0.002926	0.07433	3.75	3.410	25.14
	230	0.002461	0.06250	4.00	3.186	28.33
Silt	270	0.002069	0.05256	4.25	3.127	31.46
	325	0.001740	0.04419	4.50	3.275	34.73
	400	0.001463	0.03716	4.75	3.381	38.11
	450	0.001230	0.03125	5.00	3.261	41.37
	500	0.001035	0.02628	5.25	2.994	44.37
	635	0.000870	0.02210	5.50	2.842	47.21
		0.000732	0.01858	5.75	2.910	50.12
		0.000615	0.01562	6.00	3.072	53.19
		0.000517	0.01314	6.25	3.140	56.33
		0.000435	0.01105	6.50	3.043	59.37
		0.000366	0.00929	6.75	2.992	62.37
		0.000308	0.00781	7.00	2.907	65.27
		0.000259	0.00657	7.25	2.928	68.20
	0.000217	0.00552	7.50	2.896	71.10	
	0.000183	0.00465	7.75	3.005	74.10	
	0.000154	0.00391	8.00	3.000	77.10	
Clay		0.000129	0.00328	8.25	2.951	80.05
		0.000109	0.00276	8.50	2.764	82.82
		0.000091	0.00232	8.75	2.574	85.39
		0.000077	0.00195	9.00	2.332	87.72
		0.000065	0.00164	9.25	2.093	89.82
		0.000054	0.00138	9.50	1.903	91.72
		0.000046	0.00116	9.75	1.718	93.44
		0.000038	0.00098	10.00	1.597	95.03
		0.000032	0.00082	10.25	1.439	96.47
		0.000027	0.00069	10.50	1.260	97.73
		0.000023	0.00058	10.75	1.025	98.76
		0.000019	0.00049	11.00	0.741	99.50
		0.000016	0.00041	11.25	0.382	99.88
		0.000015	0.00038	11.50	0.120	100.00

Sortina Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0007	0.0007	0.0007	
(mm)	0.0187	0.0187	0.0187	
Mean	Silt sized			
(in)	0.0016	0.0007	0.0007	
(mm)	0.0396	0.0172	0.0177	
Sorting	V. Poor			
	4.117	0.148	2.567	
Skewness	Near symmetrical			
	0.975	0.116	0.062	
Kurtosis	Platykurtic			
	0.218	0.428	0.789	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	28.33	48.77	22.90	71.67
Percentile [Weight %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0090	0.2277	2.1347	
10	0.0064	0.1635	2.6129	
16	0.0046	0.1161	3.1069	
25	0.0029	0.0748	3.7401	
40	0.0013	0.0336	4.8936	
50	0.0007	0.0187	5.7445	
75	0.0002	0.0044	7.8232	
84	0.0001	0.0026	8.6122	
90	0.0001	0.0016	9.2731	
95	0.0000	0.0010	9.9956	

** Distribution pattern precludes calculation of these statistical parameters.



	Particle Size Distribution				Weight %	
	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.000	0.00
	10	0.078740	2.00000	-1.00	0.000	0.00
V Crse Sand	12	0.066212	1.68179	-0.75	0.000	0.00
	14	0.055678	1.41421	-0.50	0.000	0.00
	16	0.046819	1.18921	-0.25	0.000	0.00
	18	0.039370	1.00000	0.00	0.000	0.00
Coarse Sand	20	0.033106	0.84090	0.25	0.000	0.00
	25	0.027839	0.70711	0.50	0.023	0.02
	30	0.023410	0.59460	0.75	0.454	0.48
	35	0.019685	0.50000	1.00	0.882	1.36
Medium Sand	40	0.016553	0.42045	1.25	0.978	2.34
	45	0.013919	0.35355	1.50	1.627	3.96
	50	0.011705	0.29730	1.75	2.863	6.83
	60	0.009843	0.25000	2.00	3.500	10.33
Fine Sand	70	0.008277	0.21022	2.25	3.121	13.45
	80	0.006960	0.17678	2.50	2.761	16.21
	100	0.005852	0.14865	2.75	2.877	19.09
	120	0.004921	0.12500	3.00	3.675	22.76
V. Fine Sand	140	0.004138	0.10511	3.25	4.221	26.98
	170	0.003480	0.08839	3.50	4.119	31.10
	200	0.002926	0.07433	3.75	3.619	34.72
	230	0.002461	0.06250	4.00	3.302	38.02
Silt	270	0.002069	0.05256	4.25	3.279	41.30
	325	0.001740	0.04419	4.50	3.346	44.65
	400	0.001463	0.03716	4.75	3.280	47.93
	450	0.001230	0.03125	5.00	3.070	51.00
	500	0.001035	0.02628	5.25	2.810	53.81
	635	0.000870	0.02210	5.50	2.598	56.41
		0.000732	0.01858	5.75	2.535	58.94
		0.000615	0.01562	6.00	2.626	61.57
		0.000517	0.01314	6.25	2.713	64.28
		0.000435	0.01105	6.50	2.649	66.93
		0.000366	0.00929	6.75	2.569	69.50
		0.000308	0.00781	7.00	2.446	71.95
		0.000259	0.00657	7.25	2.412	74.36
		0.000217	0.00552	7.50	2.351	76.71
	0.000183	0.00465	7.75	2.416	79.12	
	0.000154	0.00391	8.00	2.412	81.54	
Clay		0.000129	0.00328	8.25	2.387	83.92
		0.000109	0.00276	8.50	2.252	86.18
		0.000091	0.00232	8.75	2.115	88.29
		0.000077	0.00195	9.00	1.926	90.22
		0.000065	0.00164	9.25	1.729	91.94
		0.000054	0.00138	9.50	1.560	93.50
		0.000046	0.00116	9.75	1.393	94.90
		0.000038	0.00098	10.00	1.271	96.17
		0.000032	0.00082	10.25	1.129	97.30
		0.000027	0.00069	10.50	0.974	98.27
		0.000023	0.00058	10.75	0.785	99.06
		0.000019	0.00049	11.00	0.563	99.62
		0.000016	0.00041	11.25	0.289	99.91
		0.000015	0.00038	11.50	0.091	100.00

Sortina Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Silt sized			
(in)	0.0013	0.0013	0.0013	
(mm)	0.0331	0.0331	0.0331	
Mean	Silt sized			
(in)	0.0024	0.0009	0.0011	
(mm)	0.0600	0.0241	0.0268	
Sorting	V. Poor			
	4.264	0.135	2.681	
Skewness	Finely skewed			
	0.807	0.266	0.173	
Kurtosis	Platykurtic			
	0.213	0.414	0.800	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
0.00	38.02	43.51	18.46	61.98
Percentile [Weight %]	Particle Diameter			
	[in.]	[mm]	[phi]	
5	0.0130	0.3291	1.6035	
10	0.0100	0.2540	1.9774	
16	0.0070	0.1785	2.4862	
25	0.0045	0.1138	3.1351	
40	0.0022	0.0561	4.1549	
50	0.0013	0.0331	4.9180	
75	0.0002	0.0063	7.3196	
84	0.0001	0.0033	8.2603	
90	0.0001	0.0020	8.9710	
95	0.0000	0.0011	9.7694	

** Distribution pattern precludes calculation of these statistical parameters.

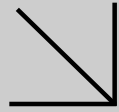
7440 Lincoln Way, Garden Grove, CA 92641-1427 • (714) 655-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us

DATE: 06/15/15
PAGE: 1 of 1

LABORATORY CLIENT: Eurofins Calscience						Project Name/Number: CATC #Z075000152 / 15-06-1170											P.O. NO.																	
ADDRESS: 7440 Lincoln Way						PROJECT CONTACT: Amanda Porter											SAMPLER(S) (PRINT)																	
CITY: Garden Grove		STATE: CA		ZIP: 92841		REQUESTED ANALYSES Please check box or fill in blank as needed.																												
TEL: 714-895-5494		E-MAIL: amandaporter@eurofinsus.com																																
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):																																		
<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR 5 DAYS <input checked="" type="checkbox"/> STANDARD																																		
<input type="checkbox"/> COELT EDF		GLOBAL ID:		LOG CODE:																														
SPECIAL INSTRUCTIONS:																																		
LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	Vapor Transport / Intrusion Group (Johnson-Ettinger Parameters)																									
	S-6-Shelby23	6/5/15	10:30	S	1	X			X																									
	S-6-Shelby24	6/5/15	8:10	S	1	X			X																									
Relinquished by: (Signature) <i>[Signature]</i> TO GSD 6/15/15 1730						Received by: (Signature/Affiliation) <i>Crystal Armstrong Corelab</i> 6/15/15 1500						Date:		Time:																				
Relinquished by: (Signature)						Received by: (Signature/Affiliation)						Date:		Time:																				
Relinquished by: (Signature)						Received by: (Signature/Affiliation)						Date:		Time:																				



Calscience



WORK ORDER NUMBER: 15-06-2265

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: 580 Market Place Shopping Center

Attention: Gabe Stivala
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Amanda Porter

Approved for release on 07/15/2015 by:
Amanda Porter
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

Client Project Name: 580 Market Place Shopping Center
Work Order Number: 15-06-2265

1	Work Order Narrative.	3
2	Client Sample Data.	4
	2.1 ASTM D-1946 (M) Fixed Gases (H2 and/or He) (Air).	4
	2.2 EPA TO-15 Full List (Air).	7
	2.3 GC/MS C6-C12 AS GASOLINE (Air).	52
	2.4 SCAQMD 25.1 TGNMO + Fixed Gases (Air).	58
	2.5 SCAQMD 25.1 TGNMO + Fixed Gases (Air).	62
3	Quality Control Sample Data.	65
	3.1 LCS/LCSD.	65
4	Summa Canister Vacuum Summary.	82
5	Sample Analysis Summary.	83
6	Glossary of Terms and Qualifiers.	84
7	Chain-of-Custody/Sample Receipt Form.	85

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/30/15. They were assigned to Work Order 15-06-2265.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: ASTM D-1946 (M)
Units: %v

Project: 580 Market Place Shopping Center

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-16A	15-06-2265-1-A	06/25/15 14:05	Air	GC 55	N/A	06/30/15 13:35	150630L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0687		0.0100		1.00	
SV-16B	15-06-2265-2-A	06/25/15 14:06	Air	GC 55	N/A	06/30/15 14:38	150630L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0215		0.0100		1.00	
SV-17A	15-06-2265-3-A	06/25/15 15:00	Air	GC 55	N/A	06/30/15 15:26	150630L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0286		0.0100		1.00	
SV-17B	15-06-2265-4-A	06/25/15 15:06	Air	GC 55	N/A	06/30/15 16:33	150630L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0301		0.0100		1.00	
SV-18A	15-06-2265-5-A	06/25/15 12:22	Air	GC 55	N/A	06/30/15 18:25	150630L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0137		0.0100		1.00	
SV-18B	15-06-2265-6-A	06/25/15 12:32	Air	GC 55	N/A	06/30/15 20:20	150630L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0219		0.0100		1.00	
SV-19A	15-06-2265-7-A	06/25/15 15:57	Air	GC 55	N/A	07/01/15 11:16	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0717		0.0100		1.00	
SV-19B	15-06-2265-8-A	06/25/15 16:03	Air	GC 55	N/A	07/01/15 12:07	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0355		0.0100		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: ASTM D-1946 (M)
Units: %v

Project: 580 Market Place Shopping Center

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-20A	15-06-2265-9-A	06/25/15 17:10	Air	GC 55	N/A	07/01/15 12:54	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0241		0.0100		1.00	
SV-20B	15-06-2265-10-A	06/25/15 17:25	Air	GC 55	N/A	07/01/15 13:40	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0297		0.0100		1.00	
SV-21A	15-06-2265-11-A	06/25/15 11:36	Air	GC 55	N/A	07/01/15 14:24	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0316		0.0100		1.00	
SV-21B	15-06-2265-12-A	06/25/15 11:31	Air	GC 55	N/A	07/01/15 15:18	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0220		0.0100		1.00	
SV-22A	15-06-2265-13-A	06/25/15 10:23	Air	GC 55	N/A	07/01/15 16:11	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0279		0.0100		1.00	
SV-22B	15-06-2265-14-A	06/25/15 10:18	Air	GC 55	N/A	07/01/15 16:59	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0187		0.0100		1.00	
SV-23A	15-06-2265-15-A	06/25/15 08:21	Air	GC 55	N/A	07/01/15 17:54	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0159		0.0100		1.00	
SV-23B	15-06-2265-16-A	06/25/15 08:06	Air	GC 55	N/A	07/01/15 18:35	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0140		0.0100		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: ASTM D-1946 (M)
Units: %v

Project: 580 Market Place Shopping Center

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23A DUP	15-06-2265-17-A	06/25/15 08:23	Air	GC 55	N/A	07/01/15 19:21	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0139		0.0100		1.00	
SV-24A	15-06-2265-18-A	06/25/15 09:21	Air	GC 55	N/A	07/01/15 20:05	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0169		0.0100		1.00	
SV-24B	15-06-2265-19-A	06/25/15 09:25	Air	GC 55	N/A	07/02/15 11:34	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		0.0186		0.0100		1.00	
Method Blank	099-12-872-818	N/A	Air	GC 55	N/A	06/30/15 11:51	150630L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		ND		0.0100		1.00	
Method Blank	099-12-872-819	N/A	Air	GC 55	N/A	07/01/15 10:47	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		ND		0.0100		1.00	
Method Blank	099-12-872-820	N/A	Air	GC 55	N/A	07/02/15 11:08	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Helium		ND		0.0100		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 1 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-16A	15-06-2265-1-A	06/25/15 14:05	Air	GC/MS K	N/A	07/02/15 22:27	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	50	7.1	1.50	
Benzene	74	2.4	1.50	
Benzyl Chloride	ND	12	1.50	
Bromodichloromethane	ND	5.0	1.50	
Bromoform	ND	7.8	1.50	
Bromomethane	ND	2.9	1.50	
2-Butanone	ND	6.6	1.50	
Carbon Tetrachloride	ND	4.7	1.50	
Chlorobenzene	4.4	3.5	1.50	
Chloroethane	ND	2.0	1.50	
Chloroform	16	3.7	1.50	
Chloromethane	ND	1.5	1.50	
Dibromochloromethane	ND	6.4	1.50	
Dichlorodifluoromethane	5.3	3.7	1.50	
Diisopropyl Ether (DIPE)	ND	13	1.50	
1,1-Dichloroethane	ND	3.0	1.50	
1,1-Dichloroethene	ND	3.0	1.50	
1,2-Dibromoethane	ND	5.8	1.50	
Dichlorotetrafluoroethane	ND	21	1.50	
1,2-Dichlorobenzene	ND	4.5	1.50	
1,2-Dichloroethane	ND	3.0	1.50	
1,2-Dichloropropane	ND	3.5	1.50	
1,3-Dichlorobenzene	ND	4.5	1.50	
1,4-Dichlorobenzene	ND	4.5	1.50	
c-1,3-Dichloropropene	ND	3.4	1.50	
c-1,2-Dichloroethene	ND	3.0	1.50	
t-1,2-Dichloroethene	ND	3.0	1.50	
t-1,3-Dichloropropene	ND	6.8	1.50	
Ethanol	ND	14	1.50	
Ethyl-t-Butyl Ether (ETBE)	ND	13	1.50	
Ethylbenzene	13	3.3	1.50	
4-Ethyltoluene	ND	3.7	1.50	
Hexachloro-1,3-Butadiene	ND	24	1.50	
2-Hexanone	ND	9.2	1.50	
Methyl-t-Butyl Ether (MTBE)	ND	11	1.50	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 2 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	26	1.50	
4-Methyl-2-Pentanone	ND	9.2	1.50	
Naphthalene	ND	39	1.50	
o-Xylene	12	3.3	1.50	
p/m-Xylene	36	13	1.50	
Styrene	ND	9.6	1.50	
Tert-Amyl-Methyl Ether (TAME)	ND	13	1.50	
Tert-Butyl Alcohol (TBA)	ND	9.1	1.50	
Tetrachloroethene	ND	5.1	1.50	
Toluene	63	2.8	1.50	
Trichloroethene	ND	4.0	1.50	
Trichlorofluoromethane	ND	8.4	1.50	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	17	1.50	
1,1,1-Trichloroethane	ND	4.1	1.50	
1,1,2-Trichloroethane	ND	4.1	1.50	
1,3,5-Trimethylbenzene	ND	3.7	1.50	
1,1,2,2-Tetrachloroethane	ND	10	1.50	
1,2,4-Trimethylbenzene	ND	11	1.50	
1,2,4-Trichlorobenzene	ND	22	1.50	
Vinyl Acetate	ND	11	1.50	
Vinyl Chloride	ND	1.9	1.50	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	99	68-134		
1,2-Dichloroethane-d4	98	67-133		
Toluene-d8	95	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-16A	15-06-2265-1-A	06/25/15 14:05	Air	GC/MS K	N/A	07/06/15 23:08	150706L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	580	17	2.76	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	102	68-134		
1,2-Dichloroethane-d4	109	67-133		
Toluene-d8	97	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 3 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-16B	15-06-2265-2-A	06/25/15 14:06	Air	GC/MS K	N/A	07/02/15 23:22	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	6.2	1.30	
Benzene	56	2.1	1.30	
Benzyl Chloride	ND	10	1.30	
Bromodichloromethane	ND	4.4	1.30	
Bromoform	ND	6.7	1.30	
Bromomethane	ND	2.5	1.30	
2-Butanone	ND	5.8	1.30	
Carbon Tetrachloride	ND	4.1	1.30	
Chlorobenzene	4.0	3.0	1.30	
Chloroethane	ND	1.7	1.30	
Chloroform	11	3.2	1.30	
Chloromethane	ND	1.3	1.30	
Dibromochloromethane	ND	5.5	1.30	
Dichlorodifluoromethane	ND	3.2	1.30	
Diisopropyl Ether (DIPE)	ND	11	1.30	
1,1-Dichloroethane	ND	2.6	1.30	
1,1-Dichloroethene	ND	2.6	1.30	
1,2-Dibromoethane	ND	5.0	1.30	
Dichlorotetrafluoroethane	ND	18	1.30	
1,2-Dichlorobenzene	ND	3.9	1.30	
1,2-Dichloroethane	3.0	2.6	1.30	
1,2-Dichloropropane	ND	3.0	1.30	
1,3-Dichlorobenzene	ND	3.9	1.30	
1,4-Dichlorobenzene	ND	3.9	1.30	
c-1,3-Dichloropropene	ND	3.0	1.30	
c-1,2-Dichloroethene	ND	2.6	1.30	
t-1,2-Dichloroethene	ND	2.6	1.30	
t-1,3-Dichloropropene	ND	5.9	1.30	
Ethanol	ND	12	1.30	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.30	
Ethylbenzene	12	2.8	1.30	
4-Ethyltoluene	ND	3.2	1.30	
Hexachloro-1,3-Butadiene	ND	21	1.30	
2-Hexanone	ND	8.0	1.30	
Methyl-t-Butyl Ether (MTBE)	ND	9.4	1.30	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 4 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	23	1.30	
4-Methyl-2-Pentanone	ND	8.0	1.30	
Naphthalene	ND	34	1.30	
o-Xylene	9.0	2.8	1.30	
p/m-Xylene	22	11	1.30	
Styrene	ND	8.3	1.30	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.30	
Tert-Butyl Alcohol (TBA)	ND	7.9	1.30	
Tetrachloroethene	ND	4.4	1.30	
Toluene	40	2.4	1.30	
Trichloroethene	ND	3.5	1.30	
Trichlorofluoromethane	ND	7.3	1.30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	15	1.30	
1,1,1-Trichloroethane	ND	3.5	1.30	
1,1,2-Trichloroethane	ND	3.5	1.30	
1,3,5-Trimethylbenzene	ND	3.2	1.30	
1,1,2,2-Tetrachloroethane	ND	8.9	1.30	
1,2,4-Trimethylbenzene	ND	9.6	1.30	
1,2,4-Trichlorobenzene	ND	19	1.30	
Vinyl Acetate	ND	9.2	1.30	
Vinyl Chloride	ND	1.7	1.30	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	106	68-134		
1,2-Dichloroethane-d4	98	67-133		
Toluene-d8	96	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-16B	15-06-2265-2-A	06/25/15 14:06	Air	GC/MS K	N/A	07/03/15 20:24	150703L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	690	41	6.54	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	103	68-134		
1,2-Dichloroethane-d4	108	67-133		
Toluene-d8	97	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 5 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-17A	15-06-2265-3-A	06/25/15 15:00	Air	GC/MS K	N/A	07/03/15 21:17	150703L02

Parameter	Result	RL	DF	Qualifiers
Acetone	56	4.8	1.00	
Benzene	12	1.6	1.00	
Benzyl Chloride	ND	7.8	1.00	
Bromodichloromethane	4.0	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	55	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	3.6	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	12	2.4	1.00	
Chloromethane	3.2	1.0	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	3.3	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethanol	ND	9.4	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	4.0	2.2	1.00	
4-Ethyltoluene	ND	2.5	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 6 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	4.4	2.2	1.00	
p/m-Xylene	13	8.7	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	43	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	18	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	2.5	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	102	68-134		
1,2-Dichloroethane-d4	98	67-133		
Toluene-d8	96	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 7 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-17B	15-06-2265-4-A	06/25/15 15:06	Air	GC/MS K	N/A	07/03/15 01:10	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	180	6.4	1.35	
Benzene	63	2.2	1.35	
Benzyl Chloride	ND	10	1.35	
Bromodichloromethane	ND	4.5	1.35	
Bromoform	ND	7.0	1.35	
Bromomethane	ND	2.6	1.35	
2-Butanone	8.2	6.0	1.35	
Carbon Tetrachloride	ND	4.2	1.35	
Chlorobenzene	8.0	3.1	1.35	
Chloroethane	ND	1.8	1.35	
Chloroform	3.9	3.3	1.35	
Chloromethane	2.3	1.4	1.35	
Dibromochloromethane	ND	5.8	1.35	
Dichlorodifluoromethane	6.6	3.3	1.35	
Diisopropyl Ether (DIPE)	ND	11	1.35	
1,1-Dichloroethane	ND	2.7	1.35	
1,1-Dichloroethene	ND	2.7	1.35	
1,2-Dibromoethane	ND	5.2	1.35	
Dichlorotetrafluoroethane	ND	19	1.35	
1,2-Dichlorobenzene	ND	4.1	1.35	
1,2-Dichloroethane	ND	2.7	1.35	
1,2-Dichloropropane	ND	3.1	1.35	
1,3-Dichlorobenzene	ND	4.1	1.35	
1,4-Dichlorobenzene	ND	4.1	1.35	
c-1,3-Dichloropropene	ND	3.1	1.35	
c-1,2-Dichloroethene	ND	2.7	1.35	
t-1,2-Dichloroethene	ND	2.7	1.35	
t-1,3-Dichloropropene	ND	6.1	1.35	
Ethanol	ND	13	1.35	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.35	
Ethylbenzene	13	2.9	1.35	
4-Ethyltoluene	ND	3.3	1.35	
Hexachloro-1,3-Butadiene	ND	22	1.35	
2-Hexanone	ND	8.3	1.35	
Methyl-t-Butyl Ether (MTBE)	14	9.7	1.35	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 8 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	23	1.35	
4-Methyl-2-Pentanone	ND	8.3	1.35	
Naphthalene	ND	35	1.35	
o-Xylene	12	2.9	1.35	
p/m-Xylene	24	12	1.35	
Styrene	ND	8.6	1.35	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.35	
Tert-Butyl Alcohol (TBA)	160	8.2	1.35	
Tetrachloroethene	ND	4.6	1.35	
Toluene	34	2.5	1.35	
Trichloroethene	ND	3.6	1.35	
Trichlorofluoromethane	ND	7.6	1.35	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	16	1.35	
1,1,1-Trichloroethane	ND	3.7	1.35	
1,1,2-Trichloroethane	ND	3.7	1.35	
1,3,5-Trimethylbenzene	4.7	3.3	1.35	
1,1,2,2-Tetrachloroethane	ND	9.3	1.35	
1,2,4-Trimethylbenzene	13	10	1.35	
1,2,4-Trichlorobenzene	ND	20	1.35	
Vinyl Acetate	ND	9.5	1.35	
Vinyl Chloride	ND	1.7	1.35	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	123	68-134		
1,2-Dichloroethane-d4	103	67-133		
Toluene-d8	93	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-17B	15-06-2265-4-A	06/25/15 15:06	Air	GC/MS K	N/A	07/03/15 22:06	150703L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	510	39	6.24	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	101	68-134		
1,2-Dichloroethane-d4	108	67-133		
Toluene-d8	97	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 9 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-18A	15-06-2265-5-A	06/25/15 12:22	Air	GC/MS K	N/A	07/03/15 02:05	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	5.7	1.21	
Benzene	6.1	1.9	1.21	
Benzyl Chloride	ND	9.4	1.21	
Bromodichloromethane	15	4.0	1.21	
Bromoform	ND	6.2	1.21	
Bromomethane	ND	2.3	1.21	
2-Butanone	ND	5.3	1.21	
Carbon Disulfide	170	7.5	1.21	
Carbon Tetrachloride	ND	3.8	1.21	
Chlorobenzene	5.2	2.8	1.21	
Chloroethane	ND	1.6	1.21	
Chloroform	45	2.9	1.21	
Chloromethane	2.1	1.2	1.21	
Dibromochloromethane	ND	5.1	1.21	
Dichlorodifluoromethane	4.8	3.0	1.21	
Diisopropyl Ether (DIPE)	ND	10	1.21	
1,1-Dichloroethane	ND	2.4	1.21	
1,1-Dichloroethene	ND	2.4	1.21	
1,2-Dibromoethane	ND	4.6	1.21	
Dichlorotetrafluoroethane	ND	17	1.21	
1,2-Dichlorobenzene	ND	3.6	1.21	
1,2-Dichloroethane	ND	2.4	1.21	
1,2-Dichloropropane	ND	2.8	1.21	
1,3-Dichlorobenzene	ND	3.6	1.21	
1,4-Dichlorobenzene	ND	3.6	1.21	
c-1,3-Dichloropropene	ND	2.7	1.21	
c-1,2-Dichloroethene	ND	2.4	1.21	
t-1,2-Dichloroethene	ND	2.4	1.21	
t-1,3-Dichloropropene	ND	5.5	1.21	
Ethanol	ND	11	1.21	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.21	
Ethylbenzene	3.7	2.6	1.21	
4-Ethyltoluene	4.8	3.0	1.21	
Hexachloro-1,3-Butadiene	ND	19	1.21	
2-Hexanone	ND	7.4	1.21	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
 601 North McDowell Blvd.
 Petaluma, CA 94954-2312

Date Received: 06/30/15
 Work Order: 15-06-2265
 Preparation: N/A
 Method: EPA TO-15
 Units: ug/m3

Project: 580 Market Place Shopping Center

Page 10 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	8.7	1.21	
Methylene Chloride	ND	21	1.21	
4-Methyl-2-Pentanone	ND	7.4	1.21	
Naphthalene	ND	32	1.21	
o-Xylene	17	2.6	1.21	
p/m-Xylene	29	10	1.21	
Styrene	ND	7.7	1.21	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.21	
Tert-Butyl Alcohol (TBA)	22	7.3	1.21	
Tetrachloroethene	ND	4.1	1.21	
Toluene	8.3	2.3	1.21	
Trichloroethene	ND	3.2	1.21	
Trichlorofluoromethane	ND	6.8	1.21	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	14	1.21	
1,1,1-Trichloroethane	ND	3.3	1.21	
1,1,2-Trichloroethane	ND	3.3	1.21	
1,3,5-Trimethylbenzene	11	3.0	1.21	
1,1,2,2-Tetrachloroethane	ND	8.3	1.21	
1,2,4-Trimethylbenzene	24	8.9	1.21	
1,2,4-Trichlorobenzene	ND	18	1.21	
Vinyl Acetate	ND	8.5	1.21	
Vinyl Chloride	ND	1.5	1.21	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	101	68-134		
1,2-Dichloroethane-d4	95	67-133		
Toluene-d8	96	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 11 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-18B	15-06-2265-6-A	06/25/15 12:32	Air	GC/MS K	N/A	07/03/15 03:00	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	5.0	1.06	
Benzene	65	1.7	1.06	
Benzyl Chloride	ND	8.2	1.06	
Bromodichloromethane	ND	3.6	1.06	
Bromoform	ND	5.5	1.06	
Bromomethane	ND	2.1	1.06	
2-Butanone	ND	4.7	1.06	
Carbon Tetrachloride	ND	3.3	1.06	
Chlorobenzene	10	2.4	1.06	
Chloroethane	ND	1.4	1.06	
Chloroform	5.1	2.6	1.06	
Chloromethane	1.2	1.1	1.06	
Dibromochloromethane	ND	4.5	1.06	
Dichlorodifluoromethane	ND	2.6	1.06	
Diisopropyl Ether (DIPE)	ND	8.9	1.06	
1,1-Dichloroethane	ND	2.1	1.06	
1,1-Dichloroethene	ND	2.1	1.06	
1,2-Dibromoethane	ND	4.1	1.06	
Dichlorotetrafluoroethane	ND	15	1.06	
1,2-Dichlorobenzene	ND	3.2	1.06	
1,2-Dichloroethane	ND	2.1	1.06	
1,2-Dichloropropane	ND	2.4	1.06	
1,3-Dichlorobenzene	ND	3.2	1.06	
1,4-Dichlorobenzene	ND	3.2	1.06	
c-1,3-Dichloropropene	ND	2.4	1.06	
c-1,2-Dichloroethene	ND	2.1	1.06	
t-1,2-Dichloroethene	ND	2.1	1.06	
t-1,3-Dichloropropene	ND	4.8	1.06	
Ethanol	ND	10	1.06	
Ethyl-t-Butyl Ether (ETBE)	ND	8.9	1.06	
Ethylbenzene	11	2.3	1.06	
4-Ethyltoluene	ND	2.6	1.06	
Hexachloro-1,3-Butadiene	ND	17	1.06	
2-Hexanone	ND	6.5	1.06	
Methyl-t-Butyl Ether (MTBE)	ND	7.6	1.06	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 12 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	18	1.06	
4-Methyl-2-Pentanone	ND	6.5	1.06	
Naphthalene	ND	28	1.06	
o-Xylene	9.3	2.3	1.06	
p/m-Xylene	21	9.2	1.06	
Styrene	ND	6.8	1.06	
Tert-Amyl-Methyl Ether (TAME)	ND	8.9	1.06	
Tert-Butyl Alcohol (TBA)	ND	6.4	1.06	
Tetrachloroethene	ND	3.6	1.06	
Toluene	17	2.0	1.06	
Trichloroethene	ND	2.8	1.06	
Trichlorofluoromethane	ND	6.0	1.06	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	12	1.06	
1,1,1-Trichloroethane	ND	2.9	1.06	
1,1,2-Trichloroethane	ND	2.9	1.06	
1,3,5-Trimethylbenzene	ND	2.6	1.06	
1,1,2,2-Tetrachloroethane	ND	7.3	1.06	
1,2,4-Trimethylbenzene	ND	7.8	1.06	
1,2,4-Trichlorobenzene	ND	16	1.06	
Vinyl Acetate	ND	7.5	1.06	
Vinyl Chloride	ND	1.4	1.06	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	99	68-134		
1,2-Dichloroethane-d4	102	67-133		
Toluene-d8	110	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-18B	15-06-2265-6-A	06/25/15 12:32	Air	GC/MS K	N/A	07/06/15 23:55	150706L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	380	16	2.50	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	104	68-134		
1,2-Dichloroethane-d4	110	67-133		
Toluene-d8	98	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 13 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-19A	15-06-2265-7-A	06/25/15 15:57	Air	GC/MS K	N/A	07/03/15 03:54	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	6.4	1.34	
Benzene	270	2.1	1.34	
Benzyl Chloride	ND	10	1.34	
Bromodichloromethane	22	4.5	1.34	
Bromoform	ND	6.9	1.34	
Bromomethane	ND	2.6	1.34	
2-Butanone	9.2	5.9	1.34	
Carbon Disulfide	190	8.3	1.34	
Carbon Tetrachloride	ND	4.2	1.34	
Chlorobenzene	4.6	3.1	1.34	
Chloroethane	ND	1.8	1.34	
Chloroform	57	3.3	1.34	
Chloromethane	3.3	1.4	1.34	
Dibromochloromethane	ND	5.7	1.34	
Dichlorodifluoromethane	5.1	3.3	1.34	
Diisopropyl Ether (DIPE)	ND	11	1.34	
1,1-Dichloroethane	ND	2.7	1.34	
1,1-Dichloroethene	ND	2.7	1.34	
1,2-Dibromoethane	ND	5.1	1.34	
Dichlorotetrafluoroethane	ND	19	1.34	
1,2-Dichlorobenzene	ND	4.0	1.34	
1,2-Dichloroethane	ND	2.7	1.34	
1,2-Dichloropropane	ND	3.1	1.34	
1,3-Dichlorobenzene	ND	4.0	1.34	
1,4-Dichlorobenzene	ND	4.0	1.34	
c-1,3-Dichloropropene	ND	3.0	1.34	
c-1,2-Dichloroethene	ND	2.7	1.34	
t-1,2-Dichloroethene	ND	2.7	1.34	
t-1,3-Dichloropropene	ND	6.1	1.34	
Ethanol	ND	13	1.34	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.34	
Ethylbenzene	130	2.9	1.34	
4-Ethyltoluene	ND	3.3	1.34	
Hexachloro-1,3-Butadiene	ND	21	1.34	
2-Hexanone	ND	8.2	1.34	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 14 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	9.7	1.34	
Methylene Chloride	ND	23	1.34	
4-Methyl-2-Pentanone	ND	8.2	1.34	
Naphthalene	ND	35	1.34	
o-Xylene	3.8	2.9	1.34	
p/m-Xylene	ND	12	1.34	
Styrene	ND	8.6	1.34	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.34	
Tert-Butyl Alcohol (TBA)	24	8.1	1.34	
Tetrachloroethene	25	4.5	1.34	
Toluene	15	2.5	1.34	
Trichloroethene	ND	3.6	1.34	
Trichlorofluoromethane	ND	7.5	1.34	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	15	1.34	
1,1,1-Trichloroethane	ND	3.7	1.34	
1,1,2-Trichloroethane	ND	3.7	1.34	
1,3,5-Trimethylbenzene	ND	3.3	1.34	
1,1,2,2-Tetrachloroethane	ND	9.2	1.34	
1,2,4-Trimethylbenzene	ND	9.9	1.34	
1,2,4-Trichlorobenzene	ND	20	1.34	
Vinyl Acetate	ND	9.4	1.34	
Vinyl Chloride	ND	1.7	1.34	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	68-134		
1,2-Dichloroethane-d4	100	67-133		
Toluene-d8	109	70-130		


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 15 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-19B	15-06-2265-8-A	06/25/15 16:03	Air	GC/MS K	N/A	07/03/15 04:44	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	150	4.8	1.00	
Benzene	25	1.6	1.00	
Benzyl Chloride	ND	7.8	1.00	
Bromodichloromethane	7.4	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	5.3	4.4	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	7.9	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	11	2.4	1.00	
Chloromethane	ND	1.0	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethanol	14	9.4	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	2.5	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 16 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	2.2	1.00	
p/m-Xylene	ND	8.7	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	74	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	11	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	2.5	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	100	68-134		
1,2-Dichloroethane-d4	104	67-133		
Toluene-d8	97	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-19B	15-06-2265-8-A	06/25/15 16:03	Air	GC/MS K	N/A	07/07/15 00:45	150706L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	710	31	5.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	101	68-134		
1,2-Dichloroethane-d4	109	67-133		
Toluene-d8	96	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 17 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-20A	15-06-2265-9-A	06/25/15 17:10	Air	GC/MS K	N/A	07/03/15 05:37	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	6.7	1.42	
Benzene	11	2.3	1.42	
Benzyl Chloride	ND	11	1.42	
Bromodichloromethane	6.0	4.8	1.42	
Bromoform	ND	7.3	1.42	
Bromomethane	ND	2.8	1.42	
2-Butanone	10	6.3	1.42	
Carbon Disulfide	100	8.8	1.42	
Carbon Tetrachloride	ND	4.5	1.42	
Chlorobenzene	5.0	3.3	1.42	
Chloroethane	ND	1.9	1.42	
Chloroform	19	3.5	1.42	
Chloromethane	3.2	1.5	1.42	
Dibromochloromethane	ND	6.0	1.42	
Dichlorodifluoromethane	ND	3.5	1.42	
Diisopropyl Ether (DIPE)	ND	12	1.42	
1,1-Dichloroethane	ND	2.9	1.42	
1,1-Dichloroethene	ND	2.8	1.42	
1,2-Dibromoethane	ND	5.5	1.42	
Dichlorotetrafluoroethane	ND	20	1.42	
1,2-Dichlorobenzene	ND	4.3	1.42	
1,2-Dichloroethane	ND	2.9	1.42	
1,2-Dichloropropane	ND	3.3	1.42	
1,3-Dichlorobenzene	ND	4.3	1.42	
1,4-Dichlorobenzene	ND	4.3	1.42	
c-1,3-Dichloropropene	ND	3.2	1.42	
c-1,2-Dichloroethene	ND	2.8	1.42	
t-1,2-Dichloroethene	ND	2.8	1.42	
t-1,3-Dichloropropene	ND	6.4	1.42	
Ethanol	ND	13	1.42	
Ethyl-t-Butyl Ether (ETBE)	ND	12	1.42	
Ethylbenzene	3.5	3.1	1.42	
4-Ethyltoluene	ND	3.5	1.42	
Hexachloro-1,3-Butadiene	ND	23	1.42	
2-Hexanone	ND	8.7	1.42	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 18 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	10	1.42	
Methylene Chloride	ND	25	1.42	
4-Methyl-2-Pentanone	ND	8.7	1.42	
Naphthalene	ND	37	1.42	
o-Xylene	ND	3.1	1.42	
p/m-Xylene	ND	12	1.42	
Styrene	ND	9.1	1.42	
Tert-Amyl-Methyl Ether (TAME)	ND	12	1.42	
Tert-Butyl Alcohol (TBA)	25	8.6	1.42	
Tetrachloroethene	ND	4.8	1.42	
Toluene	12	2.7	1.42	
Trichloroethene	ND	3.8	1.42	
Trichlorofluoromethane	ND	8.0	1.42	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	16	1.42	
1,1,1-Trichloroethane	ND	3.9	1.42	
1,1,2-Trichloroethane	ND	3.9	1.42	
1,3,5-Trimethylbenzene	ND	3.5	1.42	
1,1,2,2-Tetrachloroethane	ND	9.7	1.42	
1,2,4-Trimethylbenzene	ND	10	1.42	
1,2,4-Trichlorobenzene	ND	21	1.42	
Vinyl Acetate	ND	10	1.42	
Vinyl Chloride	ND	1.8	1.42	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	68-134		
1,2-Dichloroethane-d4	96	67-133		
Toluene-d8	97	70-130		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 19 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-20B	15-06-2265-10-A	06/25/15 17:25	Air	GC/MS K	N/A	07/03/15 06:30	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	220	6.0	1.27	
Benzene	37	2.0	1.27	
Benzyl Chloride	ND	9.9	1.27	
Bromodichloromethane	ND	4.3	1.27	
Bromoform	ND	6.6	1.27	
Bromomethane	ND	2.5	1.27	
2-Butanone	14	5.6	1.27	
Carbon Tetrachloride	ND	4.0	1.27	
Chlorobenzene	4.8	2.9	1.27	
Chloroethane	ND	1.7	1.27	
Chloroform	7.7	3.1	1.27	
Chloromethane	1.9	1.3	1.27	
Dibromochloromethane	ND	5.4	1.27	
Dichlorodifluoromethane	ND	3.1	1.27	
Diisopropyl Ether (DIPE)	ND	11	1.27	
1,1-Dichloroethane	ND	2.6	1.27	
1,1-Dichloroethene	ND	2.5	1.27	
1,2-Dibromoethane	ND	4.9	1.27	
Dichlorotetrafluoroethane	ND	18	1.27	
1,2-Dichlorobenzene	ND	3.8	1.27	
1,2-Dichloroethane	ND	2.6	1.27	
1,2-Dichloropropane	ND	2.9	1.27	
1,3-Dichlorobenzene	ND	3.8	1.27	
1,4-Dichlorobenzene	ND	3.8	1.27	
c-1,3-Dichloropropene	ND	2.9	1.27	
c-1,2-Dichloroethene	ND	2.5	1.27	
t-1,2-Dichloroethene	ND	2.5	1.27	
t-1,3-Dichloropropene	ND	5.8	1.27	
Ethanol	12	12	1.27	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.27	
Ethylbenzene	13	2.8	1.27	
4-Ethyltoluene	ND	3.1	1.27	
Hexachloro-1,3-Butadiene	ND	20	1.27	
2-Hexanone	ND	7.8	1.27	
Methyl-t-Butyl Ether (MTBE)	30	9.2	1.27	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 20 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	22	1.27	
4-Methyl-2-Pentanone	ND	7.8	1.27	
Naphthalene	ND	33	1.27	
o-Xylene	10	2.8	1.27	
p/m-Xylene	18	11	1.27	
Styrene	ND	8.1	1.27	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.27	
Tert-Butyl Alcohol (TBA)	180	7.7	1.27	
Tetrachloroethene	ND	4.3	1.27	
Toluene	27	2.4	1.27	
Trichloroethene	ND	3.4	1.27	
Trichlorofluoromethane	ND	7.1	1.27	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	15	1.27	
1,1,1-Trichloroethane	ND	3.5	1.27	
1,1,2-Trichloroethane	ND	3.5	1.27	
1,3,5-Trimethylbenzene	3.1	3.1	1.27	
1,1,2,2-Tetrachloroethane	ND	8.7	1.27	
1,2,4-Trimethylbenzene	ND	9.4	1.27	
1,2,4-Trichlorobenzene	ND	19	1.27	
Vinyl Acetate	ND	8.9	1.27	
Vinyl Chloride	ND	1.6	1.27	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	101	68-134		
1,2-Dichloroethane-d4	98	67-133		
Toluene-d8	95	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-20B	15-06-2265-10-A	06/25/15 17:25	Air	GC/MS K	N/A	07/07/15 01:32	150706L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	1100	26	4.14	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	103	68-134		
1,2-Dichloroethane-d4	111	67-133		
Toluene-d8	97	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 21 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-21A	15-06-2265-11-A	06/25/15 11:36	Air	GC/MS K	N/A	07/03/15 07:23	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	6.7	1.41	
Benzene	69	2.3	1.41	
Benzyl Chloride	ND	11	1.41	
Bromodichloromethane	ND	4.7	1.41	
Bromoform	ND	7.3	1.41	
Bromomethane	ND	2.7	1.41	
2-Butanone	7.6	6.2	1.41	
Carbon Tetrachloride	ND	4.4	1.41	
Chlorobenzene	10	3.2	1.41	
Chloroethane	ND	1.9	1.41	
Chloroform	16	3.4	1.41	
Chloromethane	3.2	1.5	1.41	
Dibromochloromethane	ND	6.0	1.41	
Dichlorodifluoromethane	3.8	3.5	1.41	
Diisopropyl Ether (DIPE)	ND	12	1.41	
1,1-Dichloroethane	ND	2.9	1.41	
1,1-Dichloroethene	ND	2.8	1.41	
1,2-Dibromoethane	ND	5.4	1.41	
Dichlorotetrafluoroethane	ND	20	1.41	
1,2-Dichlorobenzene	ND	4.2	1.41	
1,2-Dichloroethane	ND	2.9	1.41	
1,2-Dichloropropane	ND	3.3	1.41	
1,3-Dichlorobenzene	ND	4.2	1.41	
1,4-Dichlorobenzene	ND	4.2	1.41	
c-1,3-Dichloropropene	ND	3.2	1.41	
c-1,2-Dichloroethene	ND	2.8	1.41	
t-1,2-Dichloroethene	ND	2.8	1.41	
t-1,3-Dichloropropene	ND	6.4	1.41	
Ethanol	ND	13	1.41	
Ethyl-t-Butyl Ether (ETBE)	ND	12	1.41	
Ethylbenzene	14	3.1	1.41	
4-Ethyltoluene	ND	3.5	1.41	
Hexachloro-1,3-Butadiene	ND	23	1.41	
2-Hexanone	ND	8.7	1.41	
Methyl-t-Butyl Ether (MTBE)	ND	10	1.41	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 22 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	24	1.41	
4-Methyl-2-Pentanone	ND	8.7	1.41	
Naphthalene	ND	37	1.41	
o-Xylene	9.5	3.1	1.41	
p/m-Xylene	19	12	1.41	
Styrene	ND	9.0	1.41	
Tert-Amyl-Methyl Ether (TAME)	ND	12	1.41	
Tert-Butyl Alcohol (TBA)	ND	8.5	1.41	
Tetrachloroethene	420	4.8	1.41	
Toluene	33	2.7	1.41	
Trichloroethene	7.9	3.8	1.41	
Trichlorofluoromethane	ND	7.9	1.41	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	16	1.41	
1,1,1-Trichloroethane	ND	3.8	1.41	
1,1,2-Trichloroethane	ND	3.8	1.41	
1,3,5-Trimethylbenzene	ND	3.5	1.41	
1,1,2,2-Tetrachloroethane	ND	9.7	1.41	
1,2,4-Trimethylbenzene	ND	10	1.41	
1,2,4-Trichlorobenzene	ND	21	1.41	
Vinyl Acetate	ND	9.9	1.41	
Vinyl Chloride	2.5	1.8	1.41	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	103	68-134		
1,2-Dichloroethane-d4	106	67-133		
Toluene-d8	94	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-21A	15-06-2265-11-A	06/25/15 11:36	Air	GC/MS K	N/A	07/07/15 02:20	150706L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	350	19	3.06	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	101	68-134		
1,2-Dichloroethane-d4	100	67-133		
Toluene-d8	100	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 23 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-21B	15-06-2265-12-A	06/25/15 11:31	Air	GC/MS K	N/A	07/03/15 08:16	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	150	6.4	1.34	
Benzene	63	2.1	1.34	
Benzyl Chloride	ND	10	1.34	
Bromodichloromethane	ND	4.5	1.34	
Bromoform	ND	6.9	1.34	
Bromomethane	ND	2.6	1.34	
2-Butanone	13	5.9	1.34	
Carbon Tetrachloride	ND	4.2	1.34	
Chlorobenzene	38	3.1	1.34	
Chloroethane	ND	1.8	1.34	
Chloroform	4.6	3.3	1.34	
Chloromethane	ND	1.4	1.34	
Dibromochloromethane	ND	5.7	1.34	
Dichlorodifluoromethane	ND	3.3	1.34	
Diisopropyl Ether (DIPE)	ND	11	1.34	
1,1-Dichloroethane	ND	2.7	1.34	
1,1-Dichloroethene	ND	2.7	1.34	
1,2-Dibromoethane	ND	5.1	1.34	
Dichlorotetrafluoroethane	ND	19	1.34	
1,2-Dichlorobenzene	ND	4.0	1.34	
1,2-Dichloroethane	ND	2.7	1.34	
1,2-Dichloropropane	ND	3.1	1.34	
1,3-Dichlorobenzene	ND	4.0	1.34	
1,4-Dichlorobenzene	ND	4.0	1.34	
c-1,3-Dichloropropene	ND	3.0	1.34	
c-1,2-Dichloroethene	ND	2.7	1.34	
t-1,2-Dichloroethene	ND	2.7	1.34	
t-1,3-Dichloropropene	ND	6.1	1.34	
Ethanol	ND	13	1.34	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.34	
Ethylbenzene	23	2.9	1.34	
4-Ethyltoluene	ND	3.3	1.34	
Hexachloro-1,3-Butadiene	ND	21	1.34	
2-Hexanone	ND	8.2	1.34	
Methyl-t-Butyl Ether (MTBE)	ND	9.7	1.34	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 24 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	23	1.34	
4-Methyl-2-Pentanone	ND	8.2	1.34	
Naphthalene	ND	35	1.34	
o-Xylene	23	2.9	1.34	
p/m-Xylene	56	12	1.34	
Styrene	ND	8.6	1.34	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.34	
Tert-Butyl Alcohol (TBA)	ND	8.1	1.34	
Tetrachloroethene	140	4.5	1.34	
Toluene	25	2.5	1.34	
Trichloroethene	4.3	3.6	1.34	
Trichlorofluoromethane	ND	7.5	1.34	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	15	1.34	
1,1,1-Trichloroethane	ND	3.7	1.34	
1,1,2-Trichloroethane	ND	3.7	1.34	
1,3,5-Trimethylbenzene	3.8	3.3	1.34	
1,1,2,2-Tetrachloroethane	ND	9.2	1.34	
1,2,4-Trimethylbenzene	10	9.9	1.34	
1,2,4-Trichlorobenzene	ND	20	1.34	
Vinyl Acetate	ND	9.4	1.34	
Vinyl Chloride	ND	1.7	1.34	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	102	68-134		
1,2-Dichloroethane-d4	97	67-133		
Toluene-d8	97	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-21B	15-06-2265-12-A	06/25/15 11:31	Air	GC/MS K	N/A	07/07/15 03:09	150706L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	480	21	3.31	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	103	68-134		
1,2-Dichloroethane-d4	109	67-133		
Toluene-d8	97	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 25 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-22A	15-06-2265-13-A	06/25/15 10:23	Air	GC/MS K	N/A	07/03/15 23:01	150703L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	6.7	1.41	
Benzene	46	2.3	1.41	
Benzyl Chloride	ND	11	1.41	
Bromodichloromethane	ND	4.7	1.41	
Bromoform	ND	7.3	1.41	
Bromomethane	ND	2.7	1.41	
2-Butanone	8.8	6.2	1.41	
Carbon Disulfide	82	8.8	1.41	
Carbon Tetrachloride	ND	4.4	1.41	
Chlorobenzene	ND	3.2	1.41	
Chloroethane	ND	1.9	1.41	
Chloroform	29	3.4	1.41	
Chloromethane	2.0	1.5	1.41	
Dibromochloromethane	ND	6.0	1.41	
Dichlorodifluoromethane	4.7	3.5	1.41	
Diisopropyl Ether (DIPE)	ND	12	1.41	
1,1-Dichloroethane	ND	2.9	1.41	
1,1-Dichloroethene	ND	2.8	1.41	
1,2-Dibromoethane	ND	5.4	1.41	
Dichlorotetrafluoroethane	ND	20	1.41	
1,2-Dichlorobenzene	ND	4.2	1.41	
1,2-Dichloroethane	ND	2.9	1.41	
1,2-Dichloropropane	ND	3.3	1.41	
1,3-Dichlorobenzene	ND	4.2	1.41	
1,4-Dichlorobenzene	ND	4.2	1.41	
c-1,3-Dichloropropene	ND	3.2	1.41	
c-1,2-Dichloroethene	ND	2.8	1.41	
t-1,2-Dichloroethene	ND	2.8	1.41	
t-1,3-Dichloropropene	ND	6.4	1.41	
Ethanol	ND	13	1.41	
Ethyl-t-Butyl Ether (ETBE)	ND	12	1.41	
Ethylbenzene	8.7	3.1	1.41	
4-Ethyltoluene	ND	3.5	1.41	
Hexachloro-1,3-Butadiene	ND	23	1.41	
2-Hexanone	ND	8.7	1.41	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 26 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	10	1.41	
Methylene Chloride	ND	24	1.41	
4-Methyl-2-Pentanone	9.9	8.7	1.41	
Naphthalene	ND	37	1.41	
o-Xylene	7.8	3.1	1.41	
p/m-Xylene	15	12	1.41	
Styrene	ND	9.0	1.41	
Tert-Amyl-Methyl Ether (TAME)	ND	12	1.41	
Tert-Butyl Alcohol (TBA)	18	8.5	1.41	
Tetrachloroethene	ND	4.8	1.41	
Toluene	33	2.7	1.41	
Trichloroethene	ND	3.8	1.41	
Trichlorofluoromethane	ND	7.9	1.41	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	16	1.41	
1,1,1-Trichloroethane	ND	3.8	1.41	
1,1,2-Trichloroethane	ND	3.8	1.41	
1,3,5-Trimethylbenzene	ND	3.5	1.41	
1,1,2,2-Tetrachloroethane	ND	9.7	1.41	
1,2,4-Trimethylbenzene	ND	10	1.41	
1,2,4-Trichlorobenzene	ND	21	1.41	
Vinyl Acetate	ND	9.9	1.41	
Vinyl Chloride	ND	1.8	1.41	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	104	68-134		
1,2-Dichloroethane-d4	96	67-133		
Toluene-d8	93	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 27 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-22B	15-06-2265-14-A	06/25/15 10:18	Air	GC/MS K	N/A	07/03/15 23:57	150703L02

Parameter	Result	RL	DF	Qualifiers
Acetone	100	5.4	1.13	
Benzene	42	1.8	1.13	
Benzyl Chloride	ND	8.8	1.13	
Bromodichloromethane	ND	3.8	1.13	
Bromoform	ND	5.8	1.13	
Bromomethane	ND	2.2	1.13	
2-Butanone	9.9	5.0	1.13	
Carbon Disulfide	250	7.0	1.13	
Carbon Tetrachloride	ND	3.6	1.13	
Chlorobenzene	ND	2.6	1.13	
Chloroethane	ND	1.5	1.13	
Chloroform	ND	2.8	1.13	
Chloromethane	ND	1.2	1.13	
Dibromochloromethane	ND	4.8	1.13	
Dichlorodifluoromethane	ND	2.8	1.13	
Diisopropyl Ether (DIPE)	ND	9.4	1.13	
1,1-Dichloroethane	ND	2.3	1.13	
1,1-Dichloroethene	ND	2.2	1.13	
1,2-Dibromoethane	ND	4.3	1.13	
Dichlorotetrafluoroethane	ND	16	1.13	
1,2-Dichlorobenzene	ND	3.4	1.13	
1,2-Dichloroethane	ND	2.3	1.13	
1,2-Dichloropropane	ND	2.6	1.13	
1,3-Dichlorobenzene	ND	3.4	1.13	
1,4-Dichlorobenzene	ND	3.4	1.13	
c-1,3-Dichloropropene	ND	2.6	1.13	
c-1,2-Dichloroethene	ND	2.2	1.13	
t-1,2-Dichloroethene	ND	2.2	1.13	
t-1,3-Dichloropropene	ND	5.1	1.13	
Ethanol	11	11	1.13	
Ethyl-t-Butyl Ether (ETBE)	ND	9.4	1.13	
Ethylbenzene	10	2.5	1.13	
4-Ethyltoluene	ND	2.8	1.13	
Hexachloro-1,3-Butadiene	ND	18	1.13	
2-Hexanone	ND	6.9	1.13	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 28 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	8.1	1.13	
Methylene Chloride	ND	20	1.13	
4-Methyl-2-Pentanone	20	6.9	1.13	
Naphthalene	ND	30	1.13	
o-Xylene	7.8	2.5	1.13	
p/m-Xylene	16	9.8	1.13	
Styrene	ND	7.2	1.13	
Tert-Amyl-Methyl Ether (TAME)	ND	9.4	1.13	
Tert-Butyl Alcohol (TBA)	55	6.9	1.13	
Tetrachloroethene	ND	3.8	1.13	
Toluene	9.3	2.1	1.13	
Trichloroethene	ND	3.0	1.13	
Trichlorofluoromethane	ND	6.3	1.13	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	13	1.13	
1,1,1-Trichloroethane	ND	3.1	1.13	
1,1,2-Trichloroethane	ND	3.1	1.13	
1,3,5-Trimethylbenzene	ND	2.8	1.13	
1,1,2,2-Tetrachloroethane	ND	7.8	1.13	
1,2,4-Trimethylbenzene	ND	8.3	1.13	
1,2,4-Trichlorobenzene	ND	17	1.13	
Vinyl Acetate	ND	8.0	1.13	
Vinyl Chloride	ND	1.4	1.13	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	110	68-134		
1,2-Dichloroethane-d4	98	67-133		
Toluene-d8	95	70-130		


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 29 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23A	15-06-2265-15-A	06/25/15 08:21	Air	GC/MS K	N/A	07/04/15 00:46	150703L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	19	4.00	
Benzene	90	6.4	4.00	
Benzyl Chloride	ND	31	4.00	
Bromodichloromethane	ND	13	4.00	
Bromoform	ND	21	4.00	
Bromomethane	ND	7.8	4.00	
2-Butanone	ND	18	4.00	
Carbon Disulfide	600	25	4.00	
Carbon Tetrachloride	ND	13	4.00	
Chlorobenzene	ND	9.2	4.00	
Chloroethane	ND	5.3	4.00	
Chloroform	55	9.8	4.00	
Chloromethane	4.7	4.1	4.00	
Dibromochloromethane	ND	17	4.00	
Dichlorodifluoromethane	ND	9.9	4.00	
Diisopropyl Ether (DIPE)	ND	33	4.00	
1,1-Dichloroethane	ND	8.1	4.00	
1,2-Dibromoethane	ND	15	4.00	
Dichlorotetrafluoroethane	ND	56	4.00	
1,2-Dichlorobenzene	ND	12	4.00	
1,2-Dichloroethane	ND	8.1	4.00	
1,2-Dichloropropane	ND	9.2	4.00	
1,3-Dichlorobenzene	ND	12	4.00	
1,4-Dichlorobenzene	ND	12	4.00	
c-1,3-Dichloropropene	ND	9.1	4.00	
t-1,3-Dichloropropene	ND	18	4.00	
Ethanol	ND	38	4.00	
Ethyl-t-Butyl Ether (ETBE)	ND	33	4.00	
Ethylbenzene	ND	8.7	4.00	
4-Ethyltoluene	ND	9.8	4.00	
Hexachloro-1,3-Butadiene	ND	64	4.00	
2-Hexanone	ND	25	4.00	
Methyl-t-Butyl Ether (MTBE)	ND	29	4.00	
Methylene Chloride	ND	69	4.00	
4-Methyl-2-Pentanone	ND	25	4.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 30 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Naphthalene	ND	100	4.00	
o-Xylene	ND	8.7	4.00	
p/m-Xylene	ND	35	4.00	
Styrene	ND	26	4.00	
Tert-Amyl-Methyl Ether (TAME)	ND	33	4.00	
Tert-Butyl Alcohol (TBA)	ND	24	4.00	
Toluene	37	7.5	4.00	
Trichlorofluoromethane	ND	22	4.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	46	4.00	
1,1,1-Trichloroethane	ND	11	4.00	
1,1,2-Trichloroethane	ND	11	4.00	
1,3,5-Trimethylbenzene	ND	9.8	4.00	
1,1,2,2-Tetrachloroethane	ND	27	4.00	
1,2,4-Trimethylbenzene	ND	29	4.00	
1,2,4-Trichlorobenzene	ND	59	4.00	
Vinyl Acetate	ND	28	4.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	110	68-134	
1,2-Dichloroethane-d4	113	67-133	
Toluene-d8	94	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23A	15-06-2265-15-A	06/25/15 08:21	Air	GC/MS K	N/A	07/07/15 09:50	150706L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloroethene	3700	500	250	
c-1,2-Dichloroethene	53000	500	250	
t-1,2-Dichloroethene	4700	500	250	
Tetrachloroethene	20000	850	250	
Trichloroethene	40000	670	250	
Vinyl Chloride	1700	320	250	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	103	68-134	
1,2-Dichloroethane-d4	111	67-133	
Toluene-d8	98	70-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 31 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23B	15-06-2265-16-A	06/25/15 08:06	Air	GC/MS K	N/A	07/04/15 01:41	150703L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	5.8	1.22	
Benzene	54	1.9	1.22	
Benzyl Chloride	ND	9.5	1.22	
Bromodichloromethane	ND	4.1	1.22	
Bromoform	ND	6.3	1.22	
Bromomethane	ND	2.4	1.22	
2-Butanone	ND	5.4	1.22	
Carbon Tetrachloride	ND	3.8	1.22	
Chlorobenzene	5.0	2.8	1.22	
Chloroethane	2.9	1.6	1.22	
Chloroform	6.8	3.0	1.22	
Chloromethane	2.5	1.3	1.22	
Dibromochloromethane	ND	5.2	1.22	
Dichlorodifluoromethane	ND	3.0	1.22	
Diisopropyl Ether (DIPE)	ND	10	1.22	
1,1-Dichloroethane	ND	2.5	1.22	
1,1-Dichloroethene	80	2.4	1.22	
1,2-Dibromoethane	ND	4.7	1.22	
Dichlorotetrafluoroethane	ND	17	1.22	
1,2-Dichlorobenzene	ND	3.7	1.22	
1,2-Dichloroethane	ND	2.5	1.22	
1,2-Dichloropropane	ND	2.8	1.22	
1,3-Dichlorobenzene	ND	3.7	1.22	
1,4-Dichlorobenzene	ND	3.7	1.22	
c-1,3-Dichloropropene	ND	2.8	1.22	
t-1,2-Dichloroethene	86	2.4	1.22	
t-1,3-Dichloropropene	ND	5.5	1.22	
Ethanol	ND	11	1.22	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.22	
Ethylbenzene	21	2.6	1.22	
4-Ethyltoluene	11	3.0	1.22	
Hexachloro-1,3-Butadiene	ND	20	1.22	
2-Hexanone	ND	7.5	1.22	
Methyl-t-Butyl Ether (MTBE)	ND	8.8	1.22	
Methylene Chloride	ND	21	1.22	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 32 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
4-Methyl-2-Pentanone	ND	7.5	1.22	
Naphthalene	ND	32	1.22	
o-Xylene	16	2.6	1.22	
p/m-Xylene	27	11	1.22	
Styrene	ND	7.8	1.22	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.22	
Tert-Butyl Alcohol (TBA)	ND	7.4	1.22	
Toluene	82	2.3	1.22	
Trichloroethene	530	3.3	1.22	
Trichlorofluoromethane	ND	6.9	1.22	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	14	1.22	
1,1,1-Trichloroethane	ND	3.3	1.22	
1,1,2-Trichloroethane	ND	3.3	1.22	
1,3,5-Trimethylbenzene	17	3.0	1.22	
1,1,2,2-Tetrachloroethane	ND	8.4	1.22	
1,2,4-Trimethylbenzene	61	9.0	1.22	
1,2,4-Trichlorobenzene	ND	18	1.22	
Vinyl Acetate	ND	8.6	1.22	
Vinyl Chloride	37	1.6	1.22	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	117	68-134		
1,2-Dichloroethane-d4	98	67-133		
Toluene-d8	94	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23B	15-06-2265-16-A	06/25/15 08:06	Air	GC/MS K	N/A	07/07/15 10:36	150706L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	820	400	63.6	
c-1,2-Dichloroethene	1000	130	63.6	
Tetrachloroethene	17000	220	63.6	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	106	68-134		
1,2-Dichloroethane-d4	103	67-133		
Toluene-d8	99	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 33 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23A DUP	15-06-2265-17-A	06/25/15 08:23	Air	GC/MS K	N/A	07/04/15 02:30	150703L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	19	4.00	
Benzene	110	6.4	4.00	
Benzyl Chloride	ND	31	4.00	
Bromodichloromethane	ND	13	4.00	
Bromoform	ND	21	4.00	
Bromomethane	ND	7.8	4.00	
2-Butanone	ND	18	4.00	
Carbon Disulfide	910	25	4.00	
Carbon Tetrachloride	ND	13	4.00	
Chlorobenzene	ND	9.2	4.00	
Chloroethane	ND	5.3	4.00	
Chloroform	67	9.8	4.00	
Chloromethane	6.5	4.1	4.00	
Dibromochloromethane	ND	17	4.00	
Dichlorodifluoromethane	ND	9.9	4.00	
Diisopropyl Ether (DIPE)	ND	33	4.00	
1,1-Dichloroethane	ND	8.1	4.00	
1,2-Dibromoethane	ND	15	4.00	
Dichlorotetrafluoroethane	ND	56	4.00	
1,2-Dichlorobenzene	ND	12	4.00	
1,2-Dichloroethane	ND	8.1	4.00	
1,2-Dichloropropane	ND	9.2	4.00	
1,3-Dichlorobenzene	ND	12	4.00	
1,4-Dichlorobenzene	ND	12	4.00	
c-1,3-Dichloropropene	ND	9.1	4.00	
t-1,3-Dichloropropene	ND	18	4.00	
Ethanol	ND	38	4.00	
Ethyl-t-Butyl Ether (ETBE)	ND	33	4.00	
Ethylbenzene	14	8.7	4.00	
4-Ethyltoluene	ND	9.8	4.00	
Hexachloro-1,3-Butadiene	ND	64	4.00	
2-Hexanone	ND	25	4.00	
Methyl-t-Butyl Ether (MTBE)	ND	29	4.00	
Methylene Chloride	ND	69	4.00	
4-Methyl-2-Pentanone	ND	25	4.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 34 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Naphthalene	ND	100	4.00	
o-Xylene	ND	8.7	4.00	
p/m-Xylene	ND	35	4.00	
Styrene	ND	26	4.00	
Tert-Amyl-Methyl Ether (TAME)	ND	33	4.00	
Tert-Butyl Alcohol (TBA)	ND	24	4.00	
Toluene	34	7.5	4.00	
Trichlorofluoromethane	ND	22	4.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	46	4.00	
1,1,1-Trichloroethane	ND	11	4.00	
1,1,2-Trichloroethane	ND	11	4.00	
1,3,5-Trimethylbenzene	ND	9.8	4.00	
1,1,2,2-Tetrachloroethane	ND	27	4.00	
1,2,4-Trimethylbenzene	ND	29	4.00	
1,2,4-Trichlorobenzene	ND	59	4.00	
Vinyl Acetate	ND	28	4.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	107	68-134	
1,2-Dichloroethane-d4	117	67-133	
Toluene-d8	83	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23A DUP	15-06-2265-17-A	06/25/15 08:23	Air	GC/MS NN	N/A	07/07/15 11:18	150706L01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloroethene	2500	500	250	
c-1,2-Dichloroethene	47000	500	250	
t-1,2-Dichloroethene	4300	500	250	
Tetrachloroethene	14000	850	250	
Trichloroethene	33000	670	250	
Vinyl Chloride	1300	320	250	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	107	68-134	
1,2-Dichloroethane-d4	113	67-133	
Toluene-d8	105	70-130	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 35 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-24A	15-06-2265-18-A	06/25/15 09:21	Air	GC/MS K	N/A	07/06/15 22:19	150706L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	6.0	1.27	
Benzene	18	2.0	1.27	
Benzyl Chloride	ND	9.9	1.27	
Bromodichloromethane	8.3	4.3	1.27	
Bromoform	ND	6.6	1.27	
Bromomethane	ND	2.5	1.27	
2-Butanone	ND	5.6	1.27	
Carbon Tetrachloride	ND	4.0	1.27	
Chlorobenzene	4.7	2.9	1.27	
Chloroethane	ND	1.7	1.27	
Chloroform	51	3.1	1.27	
Chloromethane	5.9	1.3	1.27	
Dibromochloromethane	ND	5.4	1.27	
Dichlorodifluoromethane	3.2	3.1	1.27	
Diisopropyl Ether (DIPE)	ND	11	1.27	
1,1-Dichloroethane	ND	2.6	1.27	
1,1-Dichloroethene	19	2.5	1.27	
1,2-Dibromoethane	ND	4.9	1.27	
Dichlorotetrafluoroethane	ND	18	1.27	
1,2-Dichlorobenzene	ND	3.8	1.27	
1,2-Dichloroethane	ND	2.6	1.27	
1,2-Dichloropropane	ND	2.9	1.27	
1,3-Dichlorobenzene	ND	3.8	1.27	
1,4-Dichlorobenzene	ND	3.8	1.27	
c-1,3-Dichloropropene	ND	2.9	1.27	
c-1,2-Dichloroethene	270	2.5	1.27	
t-1,2-Dichloroethene	61	2.5	1.27	
t-1,3-Dichloropropene	ND	5.8	1.27	
Ethanol	ND	12	1.27	
Ethyl-t-Butyl Ether (ETBE)	ND	11	1.27	
Ethylbenzene	ND	2.8	1.27	
4-Ethyltoluene	ND	3.1	1.27	
Hexachloro-1,3-Butadiene	ND	20	1.27	
2-Hexanone	ND	7.8	1.27	
Methyl-t-Butyl Ether (MTBE)	ND	9.2	1.27	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 36 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	22	1.27	
4-Methyl-2-Pentanone	ND	7.8	1.27	
Naphthalene	ND	33	1.27	
o-Xylene	ND	2.8	1.27	
p/m-Xylene	ND	11	1.27	
Styrene	ND	8.1	1.27	
Tert-Amyl-Methyl Ether (TAME)	ND	11	1.27	
Tert-Butyl Alcohol (TBA)	ND	7.7	1.27	
Toluene	8.5	2.4	1.27	
Trichloroethene	210	3.4	1.27	
Trichlorofluoromethane	ND	7.1	1.27	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	15	1.27	
1,1,1-Trichloroethane	ND	3.5	1.27	
1,1,2-Trichloroethane	ND	3.5	1.27	
1,3,5-Trimethylbenzene	ND	3.1	1.27	
1,1,2,2-Tetrachloroethane	ND	8.7	1.27	
1,2,4-Trimethylbenzene	ND	9.4	1.27	
1,2,4-Trichlorobenzene	ND	19	1.27	
Vinyl Acetate	ND	8.9	1.27	
Vinyl Chloride	23	1.6	1.27	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	104	68-134		
1,2-Dichloroethane-d4	109	67-133		
Toluene-d8	94	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-24A	15-06-2265-18-A	06/25/15 09:21	Air	GC/MS NN	N/A	07/07/15 12:05	150706L01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	410	92	14.8	
Tetrachloroethene	3000	50	14.8	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	112	68-134		
1,2-Dichloroethane-d4	116	67-133		
Toluene-d8	108	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 37 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-24B	15-06-2265-19-A	06/25/15 09:25	Air	GC/MS K	N/A	07/04/15 04:18	150703L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	5.7	1.19	
Benzene	40	1.9	1.19	
Benzyl Chloride	ND	9.2	1.19	
Bromodichloromethane	ND	4.0	1.19	
Bromoform	ND	6.2	1.19	
Bromomethane	ND	2.3	1.19	
2-Butanone	19	5.3	1.19	
Carbon Tetrachloride	ND	3.7	1.19	
Chlorobenzene	11	2.7	1.19	
Chloroethane	ND	1.6	1.19	
Chloroform	3.9	2.9	1.19	
Chloromethane	3.8	1.2	1.19	
Dibromochloromethane	ND	5.1	1.19	
Dichlorodifluoromethane	ND	2.9	1.19	
Diisopropyl Ether (DIPE)	ND	9.9	1.19	
1,1-Dichloroethane	ND	2.4	1.19	
1,1-Dichloroethene	ND	2.4	1.19	
1,2-Dibromoethane	ND	4.6	1.19	
Dichlorotetrafluoroethane	ND	17	1.19	
1,2-Dichlorobenzene	ND	3.6	1.19	
1,2-Dichloroethane	ND	2.4	1.19	
1,2-Dichloropropane	ND	2.7	1.19	
1,3-Dichlorobenzene	ND	3.6	1.19	
1,4-Dichlorobenzene	ND	3.6	1.19	
c-1,3-Dichloropropene	ND	2.7	1.19	
c-1,2-Dichloroethene	23	2.4	1.19	
t-1,2-Dichloroethene	4.1	2.4	1.19	
t-1,3-Dichloropropene	ND	5.4	1.19	
Ethanol	12	11	1.19	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.19	
Ethylbenzene	12	2.6	1.19	
4-Ethyltoluene	ND	2.9	1.19	
Hexachloro-1,3-Butadiene	ND	19	1.19	
2-Hexanone	ND	7.3	1.19	
Methyl-t-Butyl Ether (MTBE)	ND	8.6	1.19	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 38 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methylene Chloride	ND	21	1.19	
4-Methyl-2-Pentanone	ND	7.3	1.19	
Naphthalene	ND	31	1.19	
o-Xylene	8.6	2.6	1.19	
p/m-Xylene	16	10	1.19	
Styrene	ND	7.6	1.19	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.19	
Tert-Butyl Alcohol (TBA)	30	7.2	1.19	
Tetrachloroethene	7.8	4.0	1.19	
Toluene	26	2.2	1.19	
Trichloroethene	11	3.2	1.19	
Trichlorofluoromethane	ND	6.7	1.19	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	14	1.19	
1,1,1-Trichloroethane	ND	3.2	1.19	
1,1,2-Trichloroethane	ND	3.2	1.19	
1,3,5-Trimethylbenzene	3.1	2.9	1.19	
1,1,2,2-Tetrachloroethane	ND	8.2	1.19	
1,2,4-Trimethylbenzene	ND	8.8	1.19	
1,2,4-Trichlorobenzene	ND	18	1.19	
Vinyl Acetate	ND	8.4	1.19	
Vinyl Chloride	ND	1.5	1.19	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	103	68-134		
1,2-Dichloroethane-d4	97	67-133		
Toluene-d8	95	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-24B	15-06-2265-19-A	06/25/15 09:25	Air	GC/MS K	N/A	07/07/15 06:26	150706L02

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	2400	50	7.95	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	106	68-134		
1,2-Dichloroethane-d4	109	67-133		
Toluene-d8	98	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 39 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-15629	N/A	Air	GC/MS K	N/A	07/02/15 18:05	150702L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	7.8	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	1.0	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethanol	ND	9.4	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	2.5	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 40 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	2.2	1.00	
p/m-Xylene	ND	8.7	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	ND	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	2.5	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	68-134		
1,2-Dichloroethane-d4	95	67-133		
Toluene-d8	97	70-130		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 41 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-15630	N/A	Air	GC/MS K	N/A	07/03/15 19:38	150703L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	7.8	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	1.0	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethanol	ND	9.4	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	2.5	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 42 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	2.2	1.00	
p/m-Xylene	ND	8.7	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	ND	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	2.5	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	95	68-134		
1,2-Dichloroethane-d4	95	67-133		
Toluene-d8	96	70-130		


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 43 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-15633	N/A	Air	GC/MS NN	N/A	07/06/15 21:49	150706L01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Disulfide	ND	6.2	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
Tetrachloroethene	ND	3.4	1.00	
Trichloroethene	ND	2.7	1.00	
Vinyl Chloride	ND	1.3	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	101	68-134	
1,2-Dichloroethane-d4	100	67-133	
Toluene-d8	102	70-130	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 44 of 45

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-021-15631	N/A	Air	GC/MS K	N/A	07/06/15 20:38	150706L02

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	4.8	1.00	
Benzene	ND	1.6	1.00	
Benzyl Chloride	ND	7.8	1.00	
Bromodichloromethane	ND	3.4	1.00	
Bromoform	ND	5.2	1.00	
Bromomethane	ND	1.9	1.00	
2-Butanone	ND	4.4	1.00	
Carbon Disulfide	ND	6.2	1.00	
Carbon Tetrachloride	ND	3.1	1.00	
Chlorobenzene	ND	2.3	1.00	
Chloroethane	ND	1.3	1.00	
Chloroform	ND	2.4	1.00	
Chloromethane	ND	1.0	1.00	
Dibromochloromethane	ND	4.3	1.00	
Dichlorodifluoromethane	ND	2.5	1.00	
Diisopropyl Ether (DIPE)	ND	8.4	1.00	
1,1-Dichloroethane	ND	2.0	1.00	
1,1-Dichloroethene	ND	2.0	1.00	
1,2-Dibromoethane	ND	3.8	1.00	
Dichlorotetrafluoroethane	ND	14	1.00	
1,2-Dichlorobenzene	ND	3.0	1.00	
1,2-Dichloroethane	ND	2.0	1.00	
1,2-Dichloropropane	ND	2.3	1.00	
1,3-Dichlorobenzene	ND	3.0	1.00	
1,4-Dichlorobenzene	ND	3.0	1.00	
c-1,3-Dichloropropene	ND	2.3	1.00	
c-1,2-Dichloroethene	ND	2.0	1.00	
t-1,2-Dichloroethene	ND	2.0	1.00	
t-1,3-Dichloropropene	ND	4.5	1.00	
Ethanol	ND	9.4	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	8.4	1.00	
Ethylbenzene	ND	2.2	1.00	
4-Ethyltoluene	ND	2.5	1.00	
Hexachloro-1,3-Butadiene	ND	16	1.00	
2-Hexanone	ND	6.1	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
 601 North McDowell Blvd.
 Petaluma, CA 94954-2312

Date Received: 06/30/15
 Work Order: 15-06-2265
 Preparation: N/A
 Method: EPA TO-15
 Units: ug/m3

Project: 580 Market Place Shopping Center

Page 45 of 45

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methyl-t-Butyl Ether (MTBE)	ND	7.2	1.00	
Methylene Chloride	ND	17	1.00	
4-Methyl-2-Pentanone	ND	6.1	1.00	
Naphthalene	ND	26	1.00	
o-Xylene	ND	2.2	1.00	
p/m-Xylene	ND	8.7	1.00	
Styrene	ND	6.4	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	8.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	6.1	1.00	
Tetrachloroethene	ND	3.4	1.00	
Toluene	ND	1.9	1.00	
Trichloroethene	ND	2.7	1.00	
Trichlorofluoromethane	ND	5.6	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
1,1,1-Trichloroethane	ND	2.7	1.00	
1,1,2-Trichloroethane	ND	2.7	1.00	
1,3,5-Trimethylbenzene	ND	2.5	1.00	
1,1,2,2-Tetrachloroethane	ND	6.9	1.00	
1,2,4-Trimethylbenzene	ND	7.4	1.00	
1,2,4-Trichlorobenzene	ND	15	1.00	
Vinyl Acetate	ND	7.0	1.00	
Vinyl Chloride	ND	1.3	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	102	68-134		
1,2-Dichloroethane-d4	111	67-133		
Toluene-d8	96	70-130		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: GC/MS C6-C12 AS GASOLINE
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-16A	15-06-2265-1-A	06/25/15 14:05	Air	GC/MS K	N/A	07/02/15 22:27	150702L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	15000	700	1.50	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	100	50-150	
1,4-Bromofluorobenzene	90	50-150	
Toluene-d8	95	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-16B	15-06-2265-2-A	06/25/15 14:06	Air	GC/MS K	N/A	07/03/15 20:24	150703L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	38000	3000	6.54	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	111	50-150	
1,4-Bromofluorobenzene	101	50-150	
Toluene-d8	97	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-17A	15-06-2265-3-A	06/25/15 15:00	Air	GC/MS K	N/A	07/03/15 21:17	150703L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	4500	470	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	100	50-150	
1,4-Bromofluorobenzene	99	50-150	
Toluene-d8	96	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-17B	15-06-2265-4-A	06/25/15 15:06	Air	GC/MS K	N/A	07/03/15 22:06	150703L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	38000	2900	6.24	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	111	50-150	
1,4-Bromofluorobenzene	97	50-150	
Toluene-d8	97	50-150	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: GC/MS C6-C12 AS GASOLINE
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-18A	15-06-2265-5-A	06/25/15 12:22	Air	GC/MS K	N/A	07/03/15 02:05	150702L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	5500	560	1.21	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	97	50-150	
1,4-Bromofluorobenzene	98	50-150	
Toluene-d8	96	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-18B	15-06-2265-6-A	06/25/15 12:32	Air	GC/MS K	N/A	07/03/15 03:00	150702L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	14000	490	1.06	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	104	50-150	
1,4-Bromofluorobenzene	97	50-150	
Toluene-d8	110	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-19A	15-06-2265-7-A	06/25/15 15:57	Air	GC/MS K	N/A	07/03/15 03:54	150702L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	8400	620	1.34	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	103	50-150	
1,4-Bromofluorobenzene	94	50-150	
Toluene-d8	109	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-19B	15-06-2265-8-A	06/25/15 16:03	Air	GC/MS K	N/A	07/03/15 04:44	150702L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	5900	470	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	107	50-150	
1,4-Bromofluorobenzene	97	50-150	
Toluene-d8	97	50-150	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: GC/MS C6-C12 AS GASOLINE
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-20A	15-06-2265-9-A	06/25/15 17:10	Air	GC/MS K	N/A	07/03/15 05:37	150702L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	8800	660	1.42	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	99	50-150	
1,4-Bromofluorobenzene	95	50-150	
Toluene-d8	97	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-20B	15-06-2265-10-A	06/25/15 17:25	Air	GC/MS K	N/A	07/03/15 06:30	150702L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	25000	590	1.27	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	100	50-150	
1,4-Bromofluorobenzene	93	50-150	
Toluene-d8	95	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-21A	15-06-2265-11-A	06/25/15 11:36	Air	GC/MS K	N/A	07/03/15 07:23	150702L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	29000	660	1.41	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	107	50-150	
1,4-Bromofluorobenzene	92	50-150	
Toluene-d8	94	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-21B	15-06-2265-12-A	06/25/15 11:31	Air	GC/MS K	N/A	07/03/15 08:16	150702L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	21000	620	1.34	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	99	50-150	
1,4-Bromofluorobenzene	94	50-150	
Toluene-d8	96	50-150	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: GC/MS C6-C12 AS GASOLINE
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-22A	15-06-2265-13-A	06/25/15 10:23	Air	GC/MS K	N/A	07/03/15 23:01	150703L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	21000	660	1.41	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	97	50-150	
1,4-Bromofluorobenzene	96	50-150	
Toluene-d8	93	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-22B	15-06-2265-14-A	06/25/15 10:18	Air	GC/MS K	N/A	07/03/15 23:57	150703L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	16000	530	1.13	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	100	50-150	
1,4-Bromofluorobenzene	103	50-150	
Toluene-d8	94	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23A	15-06-2265-15-A	06/25/15 08:21	Air	GC/MS K	N/A	07/04/15 00:46	150703L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	89000	1900	4.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	114	50-150	
1,4-Bromofluorobenzene	108	50-150	
Toluene-d8	94	50-150	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23B	15-06-2265-16-A	06/25/15 08:06	Air	GC/MS K	N/A	07/06/15 21:27	150706L01

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline (C6-C12)	47000	1500	3.18	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,2-Dichloroethane-d4	116	50-150	
1,4-Bromofluorobenzene	107	50-150	
Toluene-d8	97	50-150	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: GC/MS C6-C12 AS GASOLINE
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-23A DUP	15-06-2265-17-A	06/25/15 08:23	Air	GC/MS K	N/A	07/04/15 02:30	150703L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline (C6-C12)		86000		1900		4.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,2-Dichloroethane-d4		118		50-150			
1,4-Bromofluorobenzene		103		50-150			
Toluene-d8		81		50-150			
SV-24A	15-06-2265-18-A	06/25/15 09:21	Air	GC/MS K	N/A	07/06/15 22:19	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline (C6-C12)		14000		590		1.27	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,2-Dichloroethane-d4		111		50-150			
1,4-Bromofluorobenzene		100		50-150			
Toluene-d8		94		50-150			
SV-24B	15-06-2265-19-A	06/25/15 09:25	Air	GC/MS K	N/A	07/04/15 04:18	150703L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline (C6-C12)		21000		550		1.19	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,2-Dichloroethane-d4		99		50-150			
1,4-Bromofluorobenzene		93		50-150			
Toluene-d8		95		50-150			
Method Blank	099-16-014-93	N/A	Air	GC/MS K	N/A	07/02/15 18:05	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline (C6-C12)		ND		470		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,2-Dichloroethane-d4		100		50-150			
1,4-Bromofluorobenzene		93		50-150			
Toluene-d8		98		50-150			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: GC/MS C6-C12 AS GASOLINE
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-16-014-94	N/A	Air	GC/MS K	N/A	07/03/15 19:38	150703L01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline (C6-C12)	ND	470	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	101	50-150	
1,4-Bromofluorobenzene	93	50-150	
Toluene-d8	97	50-150	

Method Blank	099-16-014-95	N/A	Air	GC/MS K	N/A	07/06/15 20:38	150706L01
---------------------	----------------------	------------	------------	----------------	------------	---------------------------	------------------

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline (C6-C12)	ND	470	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	115	50-150	
1,4-Bromofluorobenzene	100	50-150	
Toluene-d8	96	50-150	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: SCAQMD 25.1M
Units: %v

Project: 580 Market Place Shopping Center

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-16A	15-06-2265-1-A	06/25/15 14:05	Air	GC 65	N/A	07/01/15 11:21	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		3.8		0.50		1.00	
Carbon Dioxide		2.6		0.50		1.00	
SV-16B	15-06-2265-2-A	06/25/15 14:06	Air	GC 65	N/A	07/01/15 12:09	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		2.4		0.50		1.00	
Carbon Dioxide		21		0.50		1.00	
SV-17A	15-06-2265-3-A	06/25/15 15:00	Air	GC 65	N/A	07/01/15 12:28	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		8.7		0.50		1.00	
Carbon Dioxide		0.75		0.50		1.00	
SV-17B	15-06-2265-4-A	06/25/15 15:06	Air	GC 65	N/A	07/01/15 12:46	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		4.8		0.50		1.00	
Carbon Dioxide		17		0.50		1.00	
SV-18A	15-06-2265-5-A	06/25/15 12:22	Air	GC 65	N/A	07/01/15 13:08	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		8.0		0.50		1.00	
Carbon Dioxide		0.69		0.50		1.00	
SV-18B	15-06-2265-6-A	06/25/15 12:32	Air	GC 65	N/A	07/01/15 13:28	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		6.4		0.50		1.00	
Carbon Dioxide		23		0.50		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: SCAQMD 25.1M
Units: %v

Project: 580 Market Place Shopping Center

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-19A	15-06-2265-7-A	06/25/15 15:57	Air	GC 65	N/A	07/01/15 14:08	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		8.8		0.50		1.00	
SV-19B	15-06-2265-8-A	06/25/15 16:03	Air	GC 65	N/A	07/01/15 14:27	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		8.1		0.50		1.00	
Carbon Dioxide		20		0.50		1.00	
SV-20A	15-06-2265-9-A	06/25/15 17:10	Air	GC 65	N/A	07/01/15 14:51	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		4.1		0.50		1.00	
Carbon Dioxide		4.6		0.50		1.00	
SV-20B	15-06-2265-10-A	06/25/15 17:25	Air	GC 65	N/A	07/01/15 15:31	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		7.6		0.50		1.00	
Carbon Dioxide		11		0.50		1.00	
SV-21A	15-06-2265-11-A	06/25/15 11:36	Air	GC 65	N/A	07/01/15 16:14	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		5.0		0.50		1.00	
Methane		0.61		0.50		1.00	
Carbon Dioxide		3.8		0.50		1.00	
SV-21B	15-06-2265-12-A	06/25/15 11:31	Air	GC 65	N/A	07/01/15 16:36	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		3.7		0.50		1.00	
Carbon Dioxide		28		0.50		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: SCAQMD 25.1M
Units: %v

Project: 580 Market Place Shopping Center

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-22A	15-06-2265-13-A	06/25/15 10:23	Air	GC 65	N/A	07/01/15 17:14	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		4.8		0.50		1.00	
Methane		0.82		0.50		1.00	
Carbon Dioxide		1.1		0.50		1.00	
SV-22B	15-06-2265-14-A	06/25/15 10:18	Air	GC 65	N/A	07/01/15 17:35	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		2.2		0.50		1.00	
Methane		0.55		0.50		1.00	
Carbon Dioxide		56		0.50		1.00	
SV-23A	15-06-2265-15-A	06/25/15 08:21	Air	GC 65	N/A	07/02/15 14:45	150702L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		13		0.50		1.00	
Carbon Dioxide		0.85		0.50		1.00	
SV-23B	15-06-2265-16-A	06/25/15 08:06	Air	GC 65	N/A	07/01/15 18:18	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		2.8		0.50		1.00	
Carbon Dioxide		28		0.50		1.00	
SV-23A DUP	15-06-2265-17-A	06/25/15 08:23	Air	GC 65	N/A	07/02/15 13:54	150702L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		10		0.50		1.00	
Carbon Dioxide		1.1		0.50		1.00	
SV-24A	15-06-2265-18-A	06/25/15 09:21	Air	GC 65	N/A	07/01/15 19:24	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		7.9		0.50		1.00	
Carbon Dioxide		2.1		0.50		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: SCAQMD 25.1M
Units: %v

Project: 580 Market Place Shopping Center

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-24B	15-06-2265-19-A	06/25/15 09:25	Air	GC 65	N/A	07/01/15 19:45	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		8.2		0.50		1.00	
Carbon Dioxide		17		0.50		1.00	
Method Blank	099-12-192-671	N/A	Air	GC 65	N/A	07/01/15 11:00	150701L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		ND		0.50		1.00	
Methane		ND		0.50		1.00	
Carbon Dioxide		ND		0.50		1.00	
Method Blank	099-12-192-672	N/A	Air	GC 65	N/A	07/02/15 11:19	150702L02
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Oxygen (+ Argon)		ND		0.50		1.00	
Carbon Dioxide		ND		0.50		1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: SCAQMD 25.1M
Units: %

Project: 580 Market Place Shopping Center

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-16A	15-06-2265-1-A	06/25/15 14:05	Air	GC 14	N/A	07/02/15 11:53	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.25		0.00010		1.00	
SV-16B	15-06-2265-2-A	06/25/15 14:06	Air	GC 14	N/A	07/02/15 12:14	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.41		0.00010		1.00	
SV-17A	15-06-2265-3-A	06/25/15 15:00	Air	GC 14	N/A	07/02/15 12:34	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.026		0.00010		1.00	
SV-17B	15-06-2265-4-A	06/25/15 15:06	Air	GC 14	N/A	07/02/15 12:52	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.36		0.00010		1.00	
SV-18A	15-06-2265-5-A	06/25/15 12:22	Air	GC 14	N/A	07/02/15 13:19	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.026		0.00010		1.00	
SV-18B	15-06-2265-6-A	06/25/15 12:32	Air	GC 14	N/A	07/02/15 13:49	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.38		0.00010		1.00	
SV-19A	15-06-2265-7-A	06/25/15 15:57	Air	GC 14	N/A	07/02/15 14:13	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.0043		0.00010		1.00	
Carbon Dioxide		0.14		0.00010		1.00	
SV-19B	15-06-2265-8-A	06/25/15 16:03	Air	GC 14	N/A	07/02/15 14:40	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.018		0.00010		1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: SCAQMD 25.1M
Units: %

Project: 580 Market Place Shopping Center

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SV-20A	15-06-2265-9-A	06/25/15 17:10	Air	GC 14	N/A	07/02/15 15:04	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.0039		0.00010		1.00	
SV-20B	15-06-2265-10-A	06/25/15 17:25	Air	GC 14	N/A	07/02/15 15:24	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.041		0.00010		1.00	
SV-21B	15-06-2265-12-A	06/25/15 11:31	Air	GC 14	N/A	07/02/15 16:09	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.13		0.00010		1.00	
SV-23A	15-06-2265-15-A	06/25/15 08:21	Air	GC 14	N/A	07/02/15 16:50	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.45		0.00010		1.00	
SV-23B	15-06-2265-16-A	06/25/15 08:06	Air	GC 14	N/A	07/02/15 17:08	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.41		0.00010		1.00	
SV-23A DUP	15-06-2265-17-A	06/25/15 08:23	Air	GC 14	N/A	07/02/15 17:25	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.49		0.00010		1.00	
SV-24A	15-06-2265-18-A	06/25/15 09:21	Air	GC 14	N/A	07/02/15 17:48	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.025		0.00010		1.00	
SV-24B	15-06-2265-19-A	06/25/15 09:25	Air	GC 14	N/A	07/02/15 18:07	150702L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Methane		0.19		0.00010		1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
 601 North McDowell Blvd.
 Petaluma, CA 94954-2312

Date Received: 06/30/15
 Work Order: 15-06-2265
 Preparation: N/A
 Method: SCAQMD 25.1M
 Units: %

Project: 580 Market Place Shopping Center

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-194-831	N/A	Air	GC 14	N/A	07/02/15 11:09	150702L01

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Methane	ND	0.00010	1.00	
Carbon Dioxide	ND	0.00010	1.00	

Return to Contents 

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 580 Market Place Shopping Center

Page 1 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-818	LCS	Air	GC 55	N/A	06/30/15 11:05	150630L01
099-12-872-818	LCSD	Air	GC 55	N/A	06/30/15 11:29	150630L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Helium	1.000	0.9634	96	0.9670	97	80-120	0	0-30	
Hydrogen	1.000	0.9567	96	0.9603	96	80-120	0	0-30	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 580 Market Place Shopping Center

Page 2 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-819	LCS	Air	GC 55	N/A	07/01/15 10:04	150701L01
099-12-872-819	LCSD	Air	GC 55	N/A	07/01/15 10:26	150701L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Helium	1.000	0.8933	89	0.9314	93	80-120	4	0-30	
Hydrogen	1.000	0.8874	89	0.9250	92	80-120	4	0-30	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: ASTM D-1946 (M)

Project: 580 Market Place Shopping Center

Page 3 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-872-820	LCS	Air	GC 55	N/A	07/02/15 10:18	150702L01
099-12-872-820	LCSD	Air	GC 55	N/A	07/02/15 10:46	150702L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Helium	1.000	0.9276	93	0.9459	95	80-120	2	0-30	
Hydrogen	1.000	0.9204	92	0.9406	94	80-120	2	0-30	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15

Project: 580 Market Place Shopping Center

Page 4 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-021-15629	LCS	Air	GC/MS K	N/A	07/02/15 12:56	150702L02
095-01-021-15629	LCSD	Air	GC/MS K	N/A	07/02/15 13:45	150702L02

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	59.39	78.06	131	60.51	102	67-133	56-144	25	0-30	
Benzene	79.87	75.36	94	82.60	103	70-130	60-140	9	0-30	
Benzyl Chloride	129.4	146.7	113	146.8	113	38-158	18-178	0	0-30	
Bromodichloromethane	167.5	186.6	111	183.3	109	70-130	60-140	2	0-30	
Bromoform	258.4	279.9	108	279.2	108	63-147	49-161	0	0-30	
Bromomethane	97.08	121.3	125	98.85	102	70-139	58-150	20	0-30	
2-Butanone	73.73	73.69	100	78.88	107	66-132	55-143	7	0-30	
Carbon Disulfide	77.85	104.5	134	87.12	112	68-146	55-159	18	0-30	
Carbon Tetrachloride	157.3	178.6	114	166.5	106	70-136	59-147	7	0-30	
Chlorobenzene	115.1	119.0	103	119.2	104	70-130	60-140	0	0-30	
Chloroethane	65.96	80.52	122	65.42	99	65-149	51-163	21	0-30	
Chloroform	122.1	123.6	101	118.9	97	70-130	60-140	4	0-30	
Chloromethane	51.63	70.88	137	55.34	107	69-141	57-153	25	0-30	
Dibromochloromethane	213.0	229.5	108	230.7	108	70-138	59-149	1	0-30	
Dichlorodifluoromethane	123.6	153.0	124	124.6	101	67-139	55-151	20	0-30	
Diisopropyl Ether (DIPE)	104.5	93.62	90	98.34	94	63-130	52-141	5	0-30	
1,1-Dichloroethane	101.2	98.83	98	102.7	102	70-130	60-140	4	0-30	
1,1-Dichloroethene	99.12	115.4	116	92.23	93	70-135	59-146	22	0-30	
1,2-Dibromoethane	192.1	207.2	108	209.3	109	70-133	60-144	1	0-30	
Dichlorotetrafluoroethane	174.8	171.1	98	133.4	76	51-135	37-149	25	0-30	
1,2-Dichlorobenzene	150.3	147.8	98	149.5	99	48-138	33-153	1	0-30	
1,2-Dichloroethane	101.2	111.9	111	104.0	103	70-132	60-142	7	0-30	
1,2-Dichloropropane	115.5	108.2	94	119.1	103	70-130	60-140	10	0-30	
1,3-Dichlorobenzene	150.3	149.3	99	148.7	99	56-134	43-147	0	0-30	
1,4-Dichlorobenzene	150.3	151.5	101	151.9	101	52-136	38-150	0	0-30	
c-1,3-Dichloropropene	113.5	133.7	118	133.5	118	70-130	60-140	0	0-30	
c-1,2-Dichloroethene	99.12	93.04	94	98.38	99	70-130	60-140	6	0-30	
t-1,2-Dichloroethene	99.12	105.9	107	98.60	99	70-130	60-140	7	0-30	
t-1,3-Dichloropropene	113.5	182.9	161	153.8	136	70-147	57-160	17	0-30	X
Ethanol	188.4	246.8	131	205.9	109	37-139	20-156	18	0-30	
Ethyl-t-Butyl Ether (ETBE)	104.5	109.9	105	109.8	105	67-130	56-140	0	0-30	
Ethylbenzene	108.6	116.8	108	116.0	107	70-130	60-140	1	0-30	
4-Ethyltoluene	122.9	128.3	104	128.4	104	68-130	58-140	0	0-30	
Hexachloro-1,3-Butadiene	266.6	232.3	87	235.2	88	44-146	27-163	1	0-30	
2-Hexanone	102.4	110.0	107	109.9	107	70-136	59-147	0	0-30	
Methyl-t-Butyl Ether (MTBE)	90.13	99.68	111	97.93	109	68-130	58-140	2	0-30	

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15

Project: 580 Market Place Shopping Center

Page 5 of 17

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Methylene Chloride	86.84	93.56	108	78.47	90	69-130	59-140	18	0-30	
4-Methyl-2-Pentanone	102.4	104.9	102	108.8	106	70-130	60-140	4	0-30	
Naphthalene	131.1	109.0	83	110.7	84	24-144	4-164	1	0-30	
o-Xylene	108.6	111.4	103	111.1	102	69-130	59-140	0	0-30	
p/m-Xylene	217.1	226.2	104	224.3	103	70-132	60-142	1	0-30	
Styrene	106.5	114.1	107	113.5	107	65-131	54-142	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	104.5	110.7	106	113.5	109	69-130	59-140	2	0-30	
Tert-Butyl Alcohol (TBA)	151.6	193.4	128	159.2	105	66-144	53-157	19	0-30	
Tetrachloroethene	169.6	178.7	105	178.9	106	70-130	60-140	0	0-30	
Toluene	94.21	101.2	107	102.0	108	70-130	60-140	1	0-30	
Trichloroethene	134.3	138.4	103	138.3	103	70-130	60-140	0	0-30	
Trichlorofluoromethane	140.5	165.3	118	125.6	89	63-141	50-154	27	0-30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	217.8	114	180.5	94	70-136	59-147	19	0-30	
1,1,1-Trichloroethane	136.4	151.6	111	138.6	102	70-130	60-140	9	0-30	
1,1,2-Trichloroethane	136.4	168.4	123	142.3	104	70-130	60-140	17	0-30	
1,3,5-Trimethylbenzene	122.9	124.5	101	124.1	101	62-130	51-141	0	0-30	
1,1,2,2-Tetrachloroethane	171.6	160.8	94	159.0	93	63-130	52-141	1	0-30	
1,2,4-Trimethylbenzene	122.9	120.6	98	120.3	98	60-132	48-144	0	0-30	
1,2,4-Trichlorobenzene	185.5	162.8	88	165.2	89	31-151	11-171	1	0-30	
Vinyl Acetate	88.03	78.80	90	87.20	99	58-130	46-142	10	0-30	
Vinyl Chloride	63.91	77.49	121	62.92	98	70-134	59-145	21	0-30	

Total number of LCS compounds: 57

Total number of ME compounds: 0

Total number of ME compounds allowed: 3

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15

Project: 580 Market Place Shopping Center

Page 6 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
095-01-021-15630	LCS	Air	GC/MS K	N/A	07/03/15 14:40	150703L02				
095-01-021-15630	LCSD	Air	GC/MS K	N/A	07/03/15 15:31	150703L02				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	59.39	62.60	105	60.20	101	67-133	56-144	4	0-30	
Benzene	79.87	79.36	99	80.17	100	70-130	60-140	1	0-30	
Benzyl Chloride	129.4	147.3	114	144.9	112	38-158	18-178	2	0-30	
Bromodichloromethane	167.5	178.3	106	179.9	107	70-130	60-140	1	0-30	
Bromoform	258.4	279.1	108	277.6	107	63-147	49-161	1	0-30	
Bromomethane	97.08	97.75	101	97.15	100	70-139	58-150	1	0-30	
2-Butanone	73.73	77.12	105	65.27	89	66-132	55-143	17	0-30	
Carbon Disulfide	77.85	88.36	114	85.76	110	68-146	55-159	3	0-30	
Carbon Tetrachloride	157.3	163.8	104	164.9	105	70-136	59-147	1	0-30	
Chlorobenzene	115.1	116.6	101	115.1	100	70-130	60-140	1	0-30	
Chloroethane	65.96	67.69	103	66.11	100	65-149	51-163	2	0-30	
Chloroform	122.1	116.6	96	115.3	94	70-130	60-140	1	0-30	
Chloromethane	51.63	51.25	99	51.24	99	69-141	57-153	0	0-30	
Dibromochloromethane	213.0	228.9	108	226.6	106	70-138	59-149	1	0-30	
Dichlorodifluoromethane	123.6	119.0	96	115.0	93	67-139	55-151	3	0-30	
Diisopropyl Ether (DIPE)	104.5	95.45	91	94.26	90	63-130	52-141	1	0-30	
1,1-Dichloroethane	101.2	100.2	99	102.5	101	70-130	60-140	2	0-30	
1,1-Dichloroethene	99.12	96.57	97	91.65	92	70-135	59-146	5	0-30	
1,2-Dibromoethane	192.1	204.0	106	203.4	106	70-133	60-144	0	0-30	
Dichlorotetrafluoroethane	174.8	131.4	75	127.5	73	51-135	37-149	3	0-30	
1,2-Dichlorobenzene	150.3	145.5	97	144.3	96	48-138	33-153	1	0-30	
1,2-Dichloroethane	101.2	101.6	100	101.8	101	70-132	60-142	0	0-30	
1,2-Dichloropropane	115.5	115.6	100	115.6	100	70-130	60-140	0	0-30	
1,3-Dichlorobenzene	150.3	146.8	98	146.0	97	56-134	43-147	1	0-30	
1,4-Dichlorobenzene	150.3	149.5	99	147.3	98	52-136	38-150	1	0-30	
c-1,3-Dichloropropene	113.5	129.7	114	129.6	114	70-130	60-140	0	0-30	
c-1,2-Dichloroethene	99.12	95.79	97	94.58	95	70-130	60-140	1	0-30	
t-1,2-Dichloroethene	99.12	96.88	98	98.35	99	70-130	60-140	2	0-30	
t-1,3-Dichloropropene	113.5	151.2	133	150.4	133	70-147	57-160	1	0-30	
Ethanol	188.4	198.0	105	208.0	110	37-139	20-156	5	0-30	
Ethyl-t-Butyl Ether (ETBE)	104.5	106.9	102	106.4	102	67-130	56-140	1	0-30	
Ethylbenzene	108.6	115.0	106	112.6	104	70-130	60-140	2	0-30	
4-Ethyltoluene	122.9	126.6	103	125.0	102	68-130	58-140	1	0-30	
Hexachloro-1,3-Butadiene	266.6	230.1	86	230.5	86	44-146	27-163	0	0-30	
2-Hexanone	102.4	107.5	105	106.8	104	70-136	59-147	1	0-30	
Methyl-t-Butyl Ether (MTBE)	90.13	94.70	105	85.76	95	68-130	58-140	10	0-30	

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15

Project: 580 Market Place Shopping Center

Page 7 of 17

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Methylene Chloride	86.84	79.10	91	77.77	90	69-130	59-140	2	0-30	
4-Methyl-2-Pentanone	102.4	105.4	103	104.1	102	70-130	60-140	1	0-30	
Naphthalene	131.1	107.0	82	107.5	82	24-144	4-164	0	0-30	
o-Xylene	108.6	110.8	102	108.7	100	69-130	59-140	2	0-30	
p/m-Xylene	217.1	222.7	103	220.3	101	70-132	60-142	1	0-30	
Styrene	106.5	112.9	106	110.4	104	65-131	54-142	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	104.5	107.6	103	109.5	105	69-130	59-140	2	0-30	
Tert-Butyl Alcohol (TBA)	151.6	162.4	107	158.1	104	66-144	53-157	3	0-30	
Tetrachloroethene	169.6	175.2	103	174.3	103	70-130	60-140	1	0-30	
Toluene	94.21	99.99	106	98.66	105	70-130	60-140	1	0-30	
Trichloroethene	134.3	133.6	99	134.1	100	70-130	60-140	0	0-30	
Trichlorofluoromethane	140.5	132.0	94	128.2	91	63-141	50-154	3	0-30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	181.1	95	175.4	92	70-136	59-147	3	0-30	
1,1,1-Trichloroethane	136.4	135.1	99	134.5	99	70-130	60-140	0	0-30	
1,1,2-Trichloroethane	136.4	138.5	102	137.6	101	70-130	60-140	1	0-30	
1,3,5-Trimethylbenzene	122.9	123.4	100	121.6	99	62-130	51-141	1	0-30	
1,1,2,2-Tetrachloroethane	171.6	159.5	93	156.3	91	63-130	52-141	2	0-30	
1,2,4-Trimethylbenzene	122.9	119.1	97	118.0	96	60-132	48-144	1	0-30	
1,2,4-Trichlorobenzene	185.5	158.6	86	159.6	86	31-151	11-171	1	0-30	
Vinyl Acetate	88.03	84.98	97	66.79	76	58-130	46-142	24	0-30	
Vinyl Chloride	63.91	63.30	99	62.35	98	70-134	59-145	2	0-30	

Total number of LCS compounds: 57

Total number of ME compounds: 0

Total number of ME compounds allowed: 3

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15

Project: 580 Market Place Shopping Center

Page 8 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
095-01-021-15631	LCS	Air	GC/MS K	N/A	07/06/15 15:05	150706L02				
095-01-021-15631	LCSD	Air	GC/MS K	N/A	07/06/15 15:53	150706L02				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	59.39	79.92	135	84.08	142	67-133	56-144	5	0-30	ME
Benzene	79.87	74.69	94	74.23	93	70-130	60-140	1	0-30	
Benzyl Chloride	129.4	160.5	124	162.0	125	38-158	18-178	1	0-30	
Bromodichloromethane	167.5	197.0	118	198.3	118	70-130	60-140	1	0-30	
Bromoform	258.4	321.8	125	324.8	126	63-147	49-161	1	0-30	
Bromomethane	97.08	132.7	137	131.8	136	70-139	58-150	1	0-30	
2-Butanone	73.73	72.24	98	72.07	98	66-132	55-143	0	0-30	
Carbon Disulfide	77.85	114.0	146	120.7	155	68-146	55-159	6	0-30	ME
Carbon Tetrachloride	157.3	196.9	125	196.5	125	70-136	59-147	0	0-30	
Chlorobenzene	115.1	118.9	103	118.9	103	70-130	60-140	0	0-30	
Chloroethane	65.96	89.60	136	87.40	132	65-149	51-163	2	0-30	
Chloroform	122.1	129.3	106	129.6	106	70-130	60-140	0	0-30	
Chloromethane	51.63	63.33	123	63.30	123	69-141	57-153	0	0-30	
Dibromochloromethane	213.0	256.4	120	257.6	121	70-138	59-149	0	0-30	
Dichlorodifluoromethane	123.6	145.4	118	150.1	121	67-139	55-151	3	0-30	
Diisopropyl Ether (DIPE)	104.5	92.87	89	92.70	89	63-130	52-141	0	0-30	
1,1-Dichloroethane	101.2	98.83	98	97.30	96	70-130	60-140	2	0-30	
1,1-Dichloroethene	99.12	124.7	126	130.1	131	70-135	59-146	4	0-30	
1,2-Dibromoethane	192.1	211.5	110	212.2	110	70-133	60-144	0	0-30	
Dichlorotetrafluoroethane	174.8	168.8	97	176.1	101	51-135	37-149	4	0-30	
1,2-Dichlorobenzene	150.3	153.5	102	154.2	103	48-138	33-153	0	0-30	
1,2-Dichloroethane	101.2	119.0	118	118.6	117	70-132	60-142	0	0-30	
1,2-Dichloropropane	115.5	103.5	90	104.0	90	70-130	60-140	0	0-30	
1,3-Dichlorobenzene	150.3	157.9	105	160.1	107	56-134	43-147	1	0-30	
1,4-Dichlorobenzene	150.3	158.1	105	159.2	106	52-136	38-150	1	0-30	
c-1,3-Dichloropropene	113.5	128.7	113	130.0	115	70-130	60-140	1	0-30	
c-1,2-Dichloroethene	99.12	93.48	94	93.01	94	70-130	60-140	0	0-30	
t-1,2-Dichloroethene	99.12	94.13	95	90.76	92	70-130	60-140	4	0-30	
t-1,3-Dichloropropene	113.5	161.0	142	160.7	142	70-147	57-160	0	0-30	
Ethanol	188.4	274.0	145	289.8	154	37-139	20-156	6	0-30	ME
Ethyl-t-Butyl Ether (ETBE)	104.5	110.8	106	111.0	106	67-130	56-140	0	0-30	
Ethylbenzene	108.6	117.8	109	118.8	109	70-130	60-140	1	0-30	
4-Ethyltoluene	122.9	131.9	107	134.6	110	68-130	58-140	2	0-30	
Hexachloro-1,3-Butadiene	266.6	278.1	104	282.9	106	44-146	27-163	2	0-30	
2-Hexanone	102.4	99.84	97	99.84	97	70-136	59-147	0	0-30	
Methyl-t-Butyl Ether (MTBE)	90.13	101.7	113	99.91	111	68-130	58-140	2	0-30	

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15

Project: 580 Market Place Shopping Center

Page 9 of 17

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Methylene Chloride	86.84	101.9	117	106.9	123	69-130	59-140	5	0-30	
4-Methyl-2-Pentanone	102.4	96.65	94	96.41	94	70-130	60-140	0	0-30	
Naphthalene	131.1	115.8	88	118.4	90	24-144	4-164	2	0-30	
o-Xylene	108.6	116.2	107	117.4	108	69-130	59-140	1	0-30	
p/m-Xylene	217.1	240.9	111	243.8	112	70-132	60-142	1	0-30	
Styrene	106.5	111.8	105	111.9	105	65-131	54-142	0	0-30	
Tert-Amyl-Methyl Ether (TAME)	104.5	108.7	104	110.0	105	69-130	59-140	1	0-30	
Tert-Butyl Alcohol (TBA)	151.6	196.7	130	220.5	145	66-144	53-157	11	0-30	ME
Tetrachloroethene	169.6	189.1	112	189.5	112	70-130	60-140	0	0-30	
Toluene	94.21	98.83	105	99.18	105	70-130	60-140	0	0-30	
Trichloroethene	134.3	141.0	105	141.1	105	70-130	60-140	0	0-30	
Trichlorofluoromethane	140.5	174.7	124	180.5	128	63-141	50-154	3	0-30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	241.1	126	250.9	131	70-136	59-147	4	0-30	
1,1,1-Trichloroethane	136.4	159.3	117	161.1	118	70-130	60-140	1	0-30	
1,1,2-Trichloroethane	136.4	129.7	95	130.6	96	70-130	60-140	1	0-30	
1,3,5-Trimethylbenzene	122.9	132.4	108	133.8	109	62-130	51-141	1	0-30	
1,1,2,2-Tetrachloroethane	171.6	153.5	89	154.4	90	63-130	52-141	1	0-30	
1,2,4-Trimethylbenzene	122.9	131.7	107	132.4	108	60-132	48-144	1	0-30	
1,2,4-Trichlorobenzene	185.5	180.6	97	185.1	100	31-151	11-171	2	0-30	
Vinyl Acetate	88.03	79.26	90	78.19	89	58-130	46-142	1	0-30	
Vinyl Chloride	63.91	78.77	123	80.92	127	70-134	59-145	3	0-30	

Total number of LCS compounds: 57

Total number of ME compounds: 4

Total number of ME compounds allowed: 3

LCS ME CL validation result: 'Not Pass (See Narrative)'

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15

Project: 580 Market Place Shopping Center

Page 10 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
095-01-021-15633	LCS	Air	GC/MS NN	N/A	07/06/15 19:08	150706L01				
095-01-021-15633	LCSD	Air	GC/MS NN	N/A	07/06/15 20:04	150706L01				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	59.39	59.82	101	58.99	99	67-133	56-144	1	0-30	
Benzene	79.87	81.58	102	83.06	104	70-130	60-140	2	0-30	
Benzyl Chloride	129.4	149.1	115	151.5	117	38-158	18-178	2	0-30	
Bromodichloromethane	167.5	185.8	111	185.3	111	70-130	60-140	0	0-30	
Bromoform	258.4	262.4	102	263.4	102	63-147	49-161	0	0-30	
Bromomethane	97.08	101.9	105	101.7	105	70-139	58-150	0	0-30	
2-Butanone	73.73	74.77	101	73.39	100	66-132	55-143	2	0-30	
Carbon Disulfide	77.85	79.99	103	79.55	102	68-146	55-159	1	0-30	
Carbon Tetrachloride	157.3	175.9	112	174.7	111	70-136	59-147	1	0-30	
Chlorobenzene	115.1	113.7	99	115.0	100	70-130	60-140	1	0-30	
Chloroethane	65.96	65.90	100	65.23	99	65-149	51-163	1	0-30	
Chloroform	122.1	123.2	101	122.6	100	70-130	60-140	0	0-30	
Chloromethane	51.63	54.10	105	50.90	99	69-141	57-153	6	0-30	
Dibromochloromethane	213.0	222.0	104	222.6	105	70-138	59-149	0	0-30	
Dichlorodifluoromethane	123.6	107.3	87	104.8	85	67-139	55-151	2	0-30	
Diisopropyl Ether (DIPE)	104.5	97.24	93	95.71	92	63-130	52-141	2	0-30	
1,1-Dichloroethane	101.2	99.50	98	98.66	97	70-130	60-140	1	0-30	
1,1-Dichloroethene	99.12	95.24	96	94.04	95	70-135	59-146	1	0-30	
1,2-Dibromoethane	192.1	192.8	100	195.6	102	70-133	60-144	1	0-30	
Dichlorotetrafluoroethane	174.8	151.7	87	148.1	85	51-135	37-149	2	0-30	
1,2-Dichlorobenzene	150.3	147.7	98	152.5	101	48-138	33-153	3	0-30	
1,2-Dichloroethane	101.2	107.7	106	106.5	105	70-132	60-142	1	0-30	
1,2-Dichloropropane	115.5	112.4	97	114.1	99	70-130	60-140	1	0-30	
1,3-Dichlorobenzene	150.3	151.0	100	154.1	103	56-134	43-147	2	0-30	
1,4-Dichlorobenzene	150.3	149.4	99	153.0	102	52-136	38-150	2	0-30	
c-1,3-Dichloropropene	113.5	121.9	107	123.2	109	70-130	60-140	1	0-30	
c-1,2-Dichloroethene	99.12	95.86	97	95.85	97	70-130	60-140	0	0-30	
t-1,2-Dichloroethene	99.12	98.25	99	97.60	98	70-130	60-140	1	0-30	
t-1,3-Dichloropropene	113.5	139.4	123	138.9	122	70-147	57-160	0	0-30	
Ethanol	188.4	199.1	106	173.4	92	37-139	20-156	14	0-30	
Ethyl-t-Butyl Ether (ETBE)	104.5	110.9	106	108.9	104	67-130	56-140	2	0-30	
Ethylbenzene	108.6	113.3	104	114.7	106	70-130	60-140	1	0-30	
4-Ethyltoluene	122.9	124.8	102	126.6	103	68-130	58-140	1	0-30	
Hexachloro-1,3-Butadiene	266.6	259.7	97	277.3	104	44-146	27-163	7	0-30	
2-Hexanone	102.4	101.6	99	103.7	101	70-136	59-147	2	0-30	
Methyl-t-Butyl Ether (MTBE)	90.13	100.8	112	98.70	110	68-130	58-140	2	0-30	

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: EPA TO-15

Project: 580 Market Place Shopping Center

Page 11 of 17

<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Methylene Chloride	86.84	79.65	92	79.24	91	69-130	59-140	1	0-30	
4-Methyl-2-Pentanone	102.4	106.5	104	107.2	105	70-130	60-140	1	0-30	
Naphthalene	131.1	114.3	87	122.3	93	24-144	4-164	7	0-30	
o-Xylene	108.6	110.2	101	111.4	103	69-130	59-140	1	0-30	
p/m-Xylene	217.1	228.7	105	228.7	105	70-132	60-142	0	0-30	
Styrene	106.5	105.0	99	107.7	101	65-131	54-142	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	104.5	112.0	107	111.3	107	69-130	59-140	1	0-30	
Tert-Butyl Alcohol (TBA)	151.6	165.3	109	153.2	101	66-144	53-157	8	0-30	
Tetrachloroethene	169.6	173.7	102	175.7	104	70-130	60-140	1	0-30	
Toluene	94.21	98.11	104	99.55	106	70-130	60-140	1	0-30	
Trichloroethene	134.3	139.3	104	139.1	104	70-130	60-140	0	0-30	
Trichlorofluoromethane	140.5	148.3	106	146.5	104	63-141	50-154	1	0-30	
1,1,2-Trichloro-1,2,2-Trifluoroethane	191.6	186.3	97	189.9	99	70-136	59-147	2	0-30	
1,1,1-Trichloroethane	136.4	147.4	108	145.7	107	70-130	60-140	1	0-30	
1,1,2-Trichloroethane	136.4	138.9	102	139.1	102	70-130	60-140	0	0-30	
1,3,5-Trimethylbenzene	122.9	126.0	103	128.7	105	62-130	51-141	2	0-30	
1,1,2,2-Tetrachloroethane	171.6	157.7	92	161.2	94	63-130	52-141	2	0-30	
1,2,4-Trimethylbenzene	122.9	126.0	103	128.5	105	60-132	48-144	2	0-30	
1,2,4-Trichlorobenzene	185.5	181.4	98	193.9	105	31-151	11-171	7	0-30	
Vinyl Acetate	88.03	83.28	95	82.68	94	58-130	46-142	1	0-30	
Vinyl Chloride	63.91	66.40	104	64.66	101	70-134	59-145	3	0-30	

Total number of LCS compounds: 57

Total number of ME compounds: 0

Total number of ME compounds allowed: 3

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: GC/MS C6-C12 AS GASOLINE

Project: 580 Market Place Shopping Center

Page 12 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-16-014-93	LCS	Air	GC/MS K	N/A	07/02/15 15:31	150702L01
099-16-014-93	LCSD	Air	GC/MS K	N/A	07/02/15 16:20	150702L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline (C6-C12)	4663	5114	110	4759	102	50-150	7	0-30	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: GC/MS C6-C12 AS GASOLINE

Project: 580 Market Place Shopping Center

Page 13 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-16-014-94	LCS	Air	GC/MS K	N/A	07/03/15 17:13	150703L01
099-16-014-94	LCSD	Air	GC/MS K	N/A	07/03/15 18:01	150703L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline (C6-C12)	4663	4962	106	5389	116	50-150	8	0-30	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: GC/MS C6-C12 AS GASOLINE

Project: 580 Market Place Shopping Center

Page 14 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-16-014-95	LCS	Air	GC/MS K	N/A	07/06/15 18:10	150706L01
099-16-014-95	LCSD	Air	GC/MS K	N/A	07/06/15 18:59	150706L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline (C6-C12)	4663	5074	109	5111	110	50-150	1	0-30	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: SCAQMD 25.1M

Project: 580 Market Place Shopping Center

Page 15 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-192-671	LCS	Air	GC 65	N/A	07/01/15 10:24	150701L01			
099-12-192-671	LCSD	Air	GC 65	N/A	07/01/15 10:42	150701L01			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Oxygen (+ Argon)	4.010	4.128	103	4.144	103	80-120	0	0-20	
Nitrogen	69.50	71.26	103	71.50	103	80-120	0	0-20	
Methane	4.500	4.319	96	4.335	96	80-120	0	0-20	
Carbon Monoxide	6.990	6.907	99	6.932	99	80-120	0	0-20	
Carbon Dioxide	15.00	14.96	100	15.23	102	80-120	2	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: SCAQMD 25.1M

Project: 580 Market Place Shopping Center

Page 16 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-192-672	LCS	Air	GC 65	N/A	07/02/15 10:39	150702L02
099-12-192-672	LCSD	Air	GC 65	N/A	07/02/15 11:01	150702L02

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Oxygen (+ Argon)	4.010	4.345	108	4.202	105	80-120	3	0-20	
Nitrogen	69.50	71.37	103	71.20	102	80-120	0	0-20	
Methane	4.500	4.270	95	4.302	96	80-120	1	0-20	
Carbon Monoxide	6.990	6.829	98	6.880	98	80-120	1	0-20	
Carbon Dioxide	15.00	14.84	99	15.00	100	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2265
Preparation: N/A
Method: SCAQMD 25.1M

Project: 580 Market Place Shopping Center

Page 17 of 17

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-194-831	LCS	Air	GC 14	N/A	07/02/15 10:25	150702L01
099-12-194-831	LCSD	Air	GC 14	N/A	07/02/15 10:49	150702L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Methane	0.01000	0.01134	113	0.01122	112	80-120	1	0-20	
Carbon Dioxide	0.01040	0.01108	107	0.01097	105	80-120	1	0-20	
Carbon Monoxide	0.01010	0.01058	105	0.01046	104	80-120	1	0-20	
TGNMO	0.03000	0.03418	114	0.03390	113	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

Summa Canister Vacuum Summary

Work Order: 15-06-2265

Page 1 of 1

Sample Name	Vacuum Out	Vacuum In	Equipment	Description
SV-16A	-29.50 in Hg	-7.80 in Hg	LC769	Summa Canister 1L
SV-16B	-29.50 in Hg	-7.00 in Hg	LC631	Summa Canister 1L
SV-17A	-29.50 in Hg	-9.10 in Hg	LC308	Summa Canister 1L
SV-17B	-29.50 in Hg	-7.90 in Hg	LC820	Summa Canister 1L
SV-18A	-29.50 in Hg	-6.20 in Hg	LC372	Summa Canister 1L
SV-18B	-29.50 in Hg	-8.10 in Hg	LC050	Summa Canister 1L
SV-19A	-29.50 in Hg	-7.50 in Hg	SLC066	Summa Canister 1L
SV-19B	-29.50 in Hg	-2.40 in Hg	LC838	Summa Canister 1L
SV-20A	-29.50 in Hg	-7.10 in Hg	LC1018	Summa Canister 1L
SV-20B	-29.50 in Hg	-6.50 in Hg	LC1001	Summa Canister 1L
SV-21A	-29.50 in Hg	-8.30 in Hg	LC912	Summa Canister 1L
SV-21B	-29.50 in Hg	-8.50 in Hg	LC913	Summa Canister 1L
SV-22A	-29.50 in Hg	-7.50 in Hg	LC1010	Summa Canister 1L
SV-22B	-29.50 in Hg	-7.00 in Hg	LC937	Summa Canister 1L
SV-23A	-29.50 in Hg	-5.00 in Hg	LC088	Summa Canister 1L
SV-23B	-29.50 in Hg	-6.00 in Hg	LC480	Summa Canister 1L
SV-23A DUP	-29.50 in Hg	-5.00 in Hg	LC277	Summa Canister 1L
SV-24A	-29.50 in Hg	-6.10 in Hg	LC361	Summa Canister 1L
SV-24B	-29.50 in Hg	-6.00 in Hg	LC894	Summa Canister 1L

Sample Analysis Summary Report

Work Order: 15-06-2265

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
ASTM D-1946 (M)	N/A	929	GC 55	2
ASTM D-1946 (M)	N/A	982	GC 55	2
ASTM D-1946 (M)	N/A	1008	GC 55	2
EPA TO-15	N/A	866	GC/MS NN	2
EPA TO-15	N/A	953	GC/MS K	2
GC/MS C6-C12 AS GASOLINE	N/A	953	GC/MS K	2
SCAQMD 25.1M	N/A	929	GC 14	2
SCAQMD 25.1M	N/A	929	GC 65	2
SCAQMD 25.1M	N/A	982	GC 65	2
SCAQMD 25.1M	N/A	1008	GC 14	2
SCAQMD 25.1M	N/A	1008	GC 65	2

Glossary of Terms and Qualifiers

Work Order: 15-06-2265

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494

For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

AIR CHAIN-OF-CUSTODY RECORD

DATE: 6/26/15
PAGE: 1 OF 2

WO NO. / LAB USE ONLY

15-06-2265

LABORATORY CLIENT: Cardno ATC
ADDRESS: 701 University Avenue Suite 200
CITY: Sacramento STATE: CA ZIP: 95825
TEL: 925-223-7123 E-MAIL: gabe.stivala@cardno.com
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD")
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD
EED: COELT EDF OTHER UNITS:
SPECIAL INSTRUCTIONS:
CLIENT PROJECT NAME / NO.: 580 Market Place Shopping Center / Cardno ATC Project # Z075000152
PROJECT CONTACT: Gabe Stivala
PROJECT ADDRESS: 3735-4065 East Castro Valley Boulevard
CITY: Castro Valley STATE: CA ZIP: 94552
P.O. NO.:
LAB CONTACT OR QUOTE NO.:
SAMPLER(S): (PRINT) Nadya Vicente
REQUESTED ANALYSES

*ASTMD-1946 = He (% Volume) *SCAQMD 25.1 = CO2, O2, and CH4 (% Volume)
*TO-15 Scan includes HVOCs, BTEX, oxygenated compounds, lead scavengers (including 1,2-DCA), naphthalene, ethene, ethane
*Report final vacuum readings
*Reporting Limits - ug/m³
*Report Lowest dilution possible
*Global ID = T10000004345

LAB USE ONLY	SAMPLE ID	FIELD ID / POINT OF COLLECTION	MATRIX	SAMPLING EQUIPMENT			START SAMPLING INFORMATION			STOP SAMPLING INFORMATION			TO-15 Scan	GC/MS TPHg (C6-C12)	CO2, O2, CH4,Ar	He (ASTMD-1946)
			Indoor (I) Soil Vap. (SV) Ambient (A)	Media ID	Canister Size 6L or 1L	Flow Controller ID	Date	Time (24 hr clock)	Canister Pressure (in Hg)	Date	Time (24 hr clock)	Canister Pressure (in Hg)				
1	SV-16A	SV-16	SV	LC769	1L	AD72	6/25/2015	1355	30	6/25/2015	1405	5	x	x	x	x
2	SV-16B	SV-16	SV	LC631	1L	AD24	6/25/2015	1355	30	6/25/2015	1406	5	x	x	x	x
3	SV-17A	SV-17	SV	LC308	1L	AD136	6/25/2015	1453	30	6/25/2015	1500	5	x	x	x	x
4	SV-17B	SV-17	SV	LC820	1L	AD86	6/25/2015	1453	30	6/25/2015	1506	6	x	x	x	x
5	SV-18A	SV-18	SV	LC372	1L	AD112	6/25/2015	1214	30	6/25/2015	1222	5	x	x	x	x
6	SV-18B	SV-18	SV	LC050	1L	AD69	6/25/2015	1214	30	6/25/2015	1232	6	x	x	x	x
7	SV-19A	SV-19	SV	SLC066	1L	AD82	6/25/2015	1549	30	6/25/2015	1557	5	x	x	x	x
8	SV-19B	SV-19	SV	LC838	1L	AD07	6/25/2015	1549	30	6/25/2015	1603	16	x	x	x	x
9	SV-20A	SV-20	SV	LC1018	1L	AD184	6/25/2015	1701	30	6/25/2015	1710	5	x	x	x	x
10	SV-20B	SV-20	SV	LC1001	1L	AD06	6/25/2015	1704	30	6/25/2015	1725	5	x	x	x	x

Relinquished by: (Signature) [Signature]
Received by: (Signature/Affiliation) Tom O'Malley ECI Date: 6/29/15 Time: 1310
Relinquished by: (Signature) Tom O'Malley to 650 6/29/15 1730 Received by: (Signature/Affiliation) [Signature] Date: 6/30/15 Time: 0930
Relinquished by: (Signature) Received by: (Signature/Affiliation) [Signature] Date: Time:



800-322-5555 www.gso.com

2265

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Tracking #: 528422386

NPS



Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY

ORC
GARDEN GROVE

A



800-322-5555 www.gso.com

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Tracking #: 528422387

NPS



Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

ORC
GARDEN GROVE

A

COD: \$0.00
Weight: 0 lb(s)
Reference:
CARDNO ERI
Delivery Instructions:

D92845A



Signature Type: REQUIRED

39463708

Package 2 of 2

LABEL INSTRUCTIONS:



SAMPLE RECEIPT CHECKLIST

COOLER 0 OF 0

CLIENT: Cardio ATC

DATE: 06/30/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): °C (w/ CF): °C; Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by:)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: Air Filter

Checked by: 836

CUSTODY SEAL:

~~Box Cooler~~ Present and Intact

Present but Not Intact

Not Present

N/A

Checked by: 836

15 6/30/15 Present and Intact

Present but Not Intact

Not Present

N/A

Checked by: 300

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples Yes No N/A

COC document(s) received complete Yes No N/A

Sampling date Sampling time Matrix Number of containers

No analysis requested Not relinquished No relinquished date No relinquished time

Sampler's name indicated on COC Yes No N/A

Sample container label(s) consistent with COC Yes No N/A

Sample container(s) intact and in good condition Yes No N/A

Proper containers for analyses requested Yes No N/A

Sufficient volume/mass for analyses requested Yes No N/A

Samples received within holding time Yes No N/A

Aqueous samples for certain analyses received within 15-minute holding time

pH Residual Chlorine Dissolved Sulfide Dissolved Oxygen Yes No N/A

Proper preservation chemical(s) noted on COC and/or sample container Yes No N/A

Unpreserved aqueous sample(s) received for certain analyses

Volatile Organics Total Metals Dissolved Metals

Container(s) for certain analysis free of headspace Yes No N/A

Volatile Organics Dissolved Gases (RSK-175) Dissolved Oxygen (SM 4500)

Carbon Dioxide (SM 4500) Ferrous Iron (SM 3500) Hydrogen Sulfide (Hach)

Tedlar™ bag(s) free of condensation Yes No N/A

CONTAINER TYPE:

(Trip Blank Lot Number:)

Aqueous: VOA VOA_h VOA_{na2} 100PJ 100PJ_{na2} 125AGB 125AGB_h 125AGB_p 125PB

125PB_{z_{na}} 250AGB 250CGB 250CGB_s 250PB 250PB_n 500AGB 500AGJ 500AG_J_s

500PB 1AGB 1AGB_{na2} 1AGB_s 1PB 1PB_{na} _____ _____ _____ _____

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® (____) TerraCores® (____) _____

Air: Tedlar™ Canister Sorbent Tube PUF _____ Other Matrix (____): _____ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 300

s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH Reviewed by: 836



Calscience



WORK ORDER NUMBER: 15-06-2268

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: 580 Market Place Shopping Center

Attention: Gabe Stivala
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Amanda Porter

Approved for release on 07/15/2015 by:
Amanda Porter
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Contents

Client Project Name: 580 Market Place Shopping Center
Work Order Number: 15-06-2268

1	Work Order Narrative.	3
2	Client Sample Data.	4
	2.1 EPA TO-17 Volatiles (Sorbent Tubes) (Air).	4
3	Quality Control Sample Data.	8
	3.1 LCS/LCSD.	8
4	Sample Analysis Summary.	10
5	Glossary of Terms and Qualifiers.	11
6	Chain-of-Custody/Sample Receipt Form.	12

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/30/15. They were assigned to Work Order 15-06-2268.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2268
Preparation: N/A
Method: EPA TO-17 (M)
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
ST-SV-16A	15-06-2268-1-A	06/25/15 14:07	Air	GC/MS MMM	N/A	07/07/15 00:05	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		108		57-129			
ST-SV-16B	15-06-2268-2-A	06/25/15 13:57	Air	GC/MS MMM	N/A	07/06/15 16:58	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		117		57-129			
ST-SV-17A	15-06-2268-3-A	06/25/15 15:10	Air	GC/MS MMM	N/A	07/06/15 17:40	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		109		57-129			
ST-SV-17B	15-06-2268-4-A	06/25/15 14:55	Air	GC/MS MMM	N/A	07/06/15 18:23	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		115		57-129			
ST-SV-18A	15-06-2268-5-A	06/25/15 12:40	Air	GC/MS MMM	N/A	07/06/15 23:22	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		105		57-129			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2268
Preparation: N/A
Method: EPA TO-17 (M)
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
ST-SV-18B	15-06-2268-6-A	06/25/15 12:20	Air	GC/MS MMM	N/A	07/06/15 19:06	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		113		57-129			
ST-SV-19A	15-06-2268-7-A	06/25/15 16:15	Air	GC/MS MMM	N/A	07/06/15 19:49	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		110		57-129			
ST-SV-19B	15-06-2268-8-A	06/25/15 15:43	Air	GC/MS MMM	N/A	07/06/15 20:32	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		113		57-129			
ST-SV-20A	15-06-2268-9-A	06/25/15 17:20	Air	GC/MS MMM	N/A	07/06/15 21:15	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		105		57-129			
ST-SV-20B	15-06-2268-10-A	06/25/15 17:06	Air	GC/MS MMM	N/A	07/06/15 21:57	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		112		57-129			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2268
Preparation: N/A
Method: EPA TO-17 (M)
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
ST-SV-21A	15-06-2268-11-A	06/26/15 11:41	Air	GC/MS MMM	N/A	07/06/15 22:40	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		109		57-129			
ST-SV-21B	15-06-2268-12-A	06/26/15 11:25	Air	GC/MS MMM	N/A	07/07/15 01:31	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		107		57-129			
ST-SV-22A	15-06-2268-13-A	06/26/15 10:28	Air	GC/MS MMM	N/A	07/07/15 17:31	150707L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		410		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		507		57-129		2,7	
ST-SV-22B	15-06-2268-14-A	06/26/15 10:14	Air	GC/MS MMM	N/A	07/08/15 09:25	150707L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		106		57-129			
ST-SV-23B	15-06-2268-16-A	06/26/15 07:57	Air	GC/MS MMM	N/A	07/07/15 03:41	150706L01
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Naphthalene		ND		20		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		113		57-129			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2268
Preparation: N/A
Method: EPA TO-17 (M)
Units: ug/m3

Project: 580 Market Place Shopping Center

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
ST-SV-24A	15-06-2268-17-A	06/26/15 09:30	Air	GC/MS MMM	N/A	07/07/15 04:24	150706L01

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	20	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	106	57-129		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
ST-SV-24B	15-06-2268-18-A	06/26/15 09:15	Air	GC/MS MMM	N/A	07/07/15 00:48	150706L01

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	20	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	111	57-129		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-178-30	N/A	Air	GC/MS MMM	N/A	07/06/15 14:19	150706L01

Comment(s): - MB data is reported in ng/sample.

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	2.0	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	99	57-129		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-178-31	N/A	Air	GC/MS MMM	N/A	07/07/15 14:53	150707L01

Comment(s): - MB data is reported in ng/sample.

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	2.0	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	103	57-129		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2268
Preparation: N/A
Method: EPA TO-17 (M)

Project: 580 Market Place Shopping Center

Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-178-30	LCS	Air	GC/MS MMM	N/A	07/06/15 11:48	150706L01			
099-15-178-30	LCSD	Air	GC/MS MMM	N/A	07/06/15 12:31	150706L01			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	100.0	106.6	107	106.3	106	40-190	0	0-35	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 06/30/15
Work Order: 15-06-2268
Preparation: N/A
Method: EPA TO-17 (M)

Project: 580 Market Place Shopping Center

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-178-31	LCS	Air	GC/MS MMM	N/A	07/07/15 12:23	150707L01			
099-15-178-31	LCSD	Air	GC/MS MMM	N/A	07/07/15 14:10	150707L01			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	100.0	91.99	92	119.2	119	40-190	26	0-35	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Sample Analysis Summary Report

Work Order: 15-06-2268

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA TO-17 (M)	N/A	658	GC/MS MMM	2


Return to Contents

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

Glossary of Terms and Qualifiers

Work Order: 15-06-2268

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494

For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

AIR CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY
15-06-2268

DATE: 6/26/15
PAGE: 1 OF 2

LABORATORY CLIENT: Cardno ATC		CLIENT PROJECT NAME / NO.: 580 Market Place Shopping Center / Cardno ATC Project # Z075000152		P.O. NO.:	
ADDRESS: 701 University Avenue Suite 200		PROJECT CONTACT: Gabe Stivala		LAB CONTACT OR QUOTE NO.:	
CITY: Sacramento	STATE: CA	ZIP: 95825	PROJECT ADDRESS: 3735-4065 East Castro Valley Boulevard		SAMPLER(S): (PRINT) Nadya Vicente
TEL: 925-223-7123	E-MAIL: gabe.stivala@cardno.com		CITY: Castro Valley		STATE: CA
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> STANDARD		ZIP: 94552		REQUESTED ANALYSES	
EDD: <input checked="" type="checkbox"/> COELT EDF <input type="checkbox"/> OTHER	UNITS:				

SPECIAL INSTRUCTIONS:

***Reporting Limits - ug/m³**
***Global ID = T10000004345**

TO-17 Naphthalene

LAB USE ONLY	SAMPLE ID	FIELD ID / POINT OF COLLECTION	MATRIX	SAMPLING EQUIPMENT			START SAMPLING INFORMATION			STOP SAMPLING INFORMATION			TO-17 Naphthalene		
			Indoor (I) Soil Vap. (SV) Ambient (A)	Media ID	Canister Size	Flow Controller ID	Date	Time (24 hr clock)	Canister Pressure (in Hg)	Date	Time (24 hr clock)	Canister Pressure (in Hg)			
1	ST-SV-16A	SV-16	SV	G0189622	100ML	NA			6/25/2015	1407	NA	x			
2	ST-SV-16B	SV-16	SV	G0189345	100ML	NA			6/25/2015	1357	NA	x			
3	ST-SV-17A	SV-17	SV	G0150611	100ML	NA			6/25/2015	1510	NA	x			
4	ST-SV-17B	SV-17	SV	G0143005	100ML	NA			6/25/2015	1455	NA	x			
5	ST-SV-18A	SV-18	SV	G0189314	100ML	NA			6/25/2015	1240	NA	x			
6	ST-SV-18B	SV-18	SV	G0137937	100ML	NA			6/25/2015	1220	NA	x			
7	ST-SV-19A	SV-19	SV	G0189606	100ML	NA			6/25/2015	1615	NA	x			
8	ST-SV-19B	SV-19	SV	G0187201	100ML	NA			6/25/2015	1543	NA	x			
9	ST-SV-20A	SV-20	SV	G0187290	100ML	NA			6/25/2015	1720	NA	x			
10	ST-SV-20B	SV-20	SV	G0184764	100ML	NA			6/25/2015	1706	NA	x			

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>Tom O'Malley ECI</i>	Date: <u>6/29/15</u>	Time: <u>1310</u>
Relinquished by: (Signature) <i>Tom O'Malley TO GSO 6/29/15 1730</i>	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: <u>6/30/15</u>	Time: <u>0930</u>



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494

For courier service / sample drop off information, contact us 26_sales@eurofinsus.com or call us.

AIR CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY
06-2268

DATE: 6/26/15

PAGE: 2 OF 2

LABORATORY CLIENT: Cardno ATC		CLIENT PROJECT NAME / NO.: 580 Market Place Shopping Center / Cardno ATC Project # Z075000152		P.O. NO.:	
ADDRESS: 701 University Avenue Suite 200		PROJECT CONTACT: Gabe Stivala		LAB CONTACT OR QUOTE NO.:	
CITY: Sacramento	STATE: CA	ZIP: 95825	PROJECT ADDRESS: 3735-4065 East Castro Valley Boulevard		SAMPLER(S): (PRINT) Nadya Vicente
TEL: 925-223-7123	E-MAIL: gabe.stivala@cardno.com		CITY: Castro Valley		STATE: CA ZIP: 94552
TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"): <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> STANDARD			REQUESTED ANALYSES		
EDD: <input checked="" type="checkbox"/> COELT EDF <input type="checkbox"/> OTHER		UNITS:			

SPECIAL INSTRUCTIONS:

***Reporting Limits - ug/m³**
***Global ID = T10000004345**

LAB USE ONLY	SAMPLE ID	FIELD ID / POINT OF COLLECTION	MATRIX	SAMPLING EQUIPMENT			START SAMPLING INFORMATION			STOP SAMPLING INFORMATION			TO-17 Naphthalene
			Indoor (I) Soil Vap. (SV) Ambient (A)	Media ID	Canister Size	Flow Controller ID	Date	Time (24 hr clock)	Canister Pressure (in Hg)	Date	Time (24 hr clock)	Canister Pressure (in Hg)	
11	ST-SV-21A	SV-21	SV	G0137972	100ML	NA				6/26/2015	1141	NA	x
12	ST-SV-21B	SV-21	SV	G0183819	100ML	NA				6/26/2015	1125	NA	x
13	ST-SV-22A	SV-22	SV	G0187123	100ML	NA				6/26/2015	1028	NA	x
14	ST-SV-22B	SV-22	SV	G0184759	100ML	NA				6/26/2015	1014	NA	x
15	ST-SV-23A	SV-23	SV	G0188617	100ML	NA				6/26/2015	0828	NA	x
16	ST-SV-23B	SV-23	SV	G0186955	100ML	NA				6/26/2015	0757	NA	x
17	ST-SV-24A	SV-24	SV	G0184789	100ML	NA				6/26/2015	0930	NA	x
18	ST-SV-24B	SV-24	SV	G0141322	100ML	NA				6/26/2015	0915	NA	x

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>Tom Smalley ECI</i>	Date: 6/29/15	Time: 1310
Relinquished by: (Signature) <i>Tom Smalley TOGSD 6/29/15 1730</i>	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 6/30/15	Time: 1930



800-322-5555 www.gso.com

2268

Ship From

CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Tracking #: 528422421

NPS



Ship To

CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

ORC
GARDEN GROVE

A

COD: \$0.00

Weight: 0 lb(s)

Reference:

CARDNO ERI, PHILLIPS 66, ARCADIS

Delivery Instructions:

D92845A



39463773

Signature Type: REQUIRED

Print Date: 6/29/2015 2:59 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

Return to Contents

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: Cardno ERD

DATE: 06/30/2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)
 Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 2.7 °C (w/ CF): 2.4 °C; Blank Sample
 Sample(s) outside temperature criteria (PM/APM contacted by: _____)
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling
 Sample(s) received at ambient temperature; placed on ice for transport by courier
 Ambient Temperature: Air Filter Checked by: IS

CUSTODY SEAL:
 Cooler Present and Intact Present but Not Intact Not Present N/A Checked by: IS
 Sample(s) Present and Intact Present but Not Intact Not Present N/A Checked by: 1020

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers <input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500) <input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE: (Trip Blank Lot Number: _____)
Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB
 125PBz_{na} 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs
 500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____
Air: Tedlar™ Canister Sorbent Tube PUF _____ **Other Matrix** (____): _____ _____
 Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag
 Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO₃, **na** = NaOH, **na₂** = Na₂S₂O₃, **p** = H₃PO₄, Labeled/Checked by: 1020
s = H₂SO₄, **u** = ultra-pure, **z_{na}** = Zn(CH₃CO₂)₂ + NaOH Reviewed by: 876