DOCKETED	
Docket Number:	22-SPPE-03
Project Title:	Martin Backup Generating Facility (MBGF)
TN #:	247327
Document Title:	MBGF SPPE Application - Part IV, Appendix E, Part 2
Description:	N/A
Filer:	Scott Galati
Organization:	DayZenLLC
Submitter Role:	Applicant Representative
Submission Date:	11/7/2022 10:42:53 PM
Docketed Date:	11/8/2022

651 Martin Avenue
651 MARTIN AVE
SANTA CLARA, CA 95050

Inquiry Number: 6569892.8
July 09, 2021

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

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Shelton, CT 06484
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX® PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of TRC on Jul 09, 2021.

TARGET PROPERTY

651 MARTIN AVE
SANTA CLARA, CA 95050

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Santa Clara

Year	*Source*	*TP*	*Adjoining*
2021	City of Santa Clara, Building Inspection Division		X
2020	City of Santa Clara, Building Inspection Division		X
2019	City of Santa Clara, Building Inspection Division		X
2018	City of Santa Clara, Building Inspection Division		X
2017	City of Santa Clara, Building Inspection Division		X
2016	City of Santa Clara, Building Inspection Division		X
2015	City of Santa Clara, Building Inspection Division		X
2014	City of Santa Clara, Building Inspection Division		X
2013	City of Santa Clara, Building Inspection Division		X
2012	City of Santa Clara, Building Inspection Division		X
2011	City of Santa Clara, Building Inspection Division		
2010	City of Santa Clara, Building Inspection Division		X
2009	City of Santa Clara, Building Inspection Division	X	
2008	City of Santa Clara, Building Inspection Division		X
2007	City of Santa Clara, Building Inspection Division		X
2006	City of Santa Clara, Building Inspection Division		X
2005	City of Santa Clara, Building Inspection Division		X
2004	City of Santa Clara, Building Inspection Division		X
2003	City of Santa Clara, Building Inspection Division		X
2002	City of Santa Clara, Building Inspection Division		X
2001	City of Santa Clara, Building Inspection Division		X
2000	City of Santa Clara, Building Inspection Division		X
1999	City of Santa Clara, Building Inspection Division		
1998	City of Santa Clara, Building Inspection Division		
1997	City of Santa Clara, Building Inspection Division		
1996	City of Santa Clara, Building Inspection Division		
1995	City of Santa Clara, Building Inspection Division		
1994	City of Santa Clara, Building Inspection Division		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	Source	TP	Adjoining
1993	City of Santa Clara, Building Inspection Division		
1992	City of Santa Clara, Building Inspection Division		
1991	City of Santa Clara, Building Inspection Division		
1990	City of Santa Clara, Building Inspection Division		
1989	City of Santa Clara, Building Inspection Division		
1988	City of Santa Clara, Building Inspection Division		
1987	City of Santa Clara, Building Inspection Division		
1986	City of Santa Clara, Building Inspection Division		
1985	City of Santa Clara, Building Inspection Division		
1984	City of Santa Clara, Building Inspection Division		
1983	City of Santa Clara, Building Inspection Division		
1982	City of Santa Clara, Building Inspection Division		
1981	City of Santa Clara, Building Inspection Division		
1980	City of Santa Clara, Building Inspection Division		
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1972	City of Santa Clara, Building Inspection Division		
1971	City of Santa Clara, Building Inspection Division		
1970	City of Santa Clara, Building Inspection Division		
1969	City of Santa Clara, Building Inspection Division		
1968	City of Santa Clara, Building Inspection Division		
1967	City of Santa Clara, Building Inspection Division		
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1962	City of Santa Clara, Building Inspection Division		
1961	City of Santa Clara, Building Inspection Division		
1960	City of Santa Clara, Building Inspection Division		
1959	City of Santa Clara, Building Inspection Division		
1958	City of Santa Clara, Building Inspection Division		
1957	City of Santa Clara, Building Inspection Division		
1956	City of Santa Clara, Building Inspection Division		

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Santa Clara
Years: 1956-2021
Source: City of Santa Clara, Building Inspection Division, SANTA CLARA, CA
Phone: (408) 615-2200

Name: Santa Clara County Unincorporated Area
Years: 1960-2021
Source: Santa Clara County, Development Services Office, SAN JOSE, CA
Phone: (408) 299-5700

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

651 MARTIN AVE
SANTA CLARA, CA 95050

651 MARTIN AVE

Date:	**10/6/2009**
Permit Type:	**FIR**
Description:	**Partial closure - hazardous materials removed**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2009-00588
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

MARTIN AVE

590 MARTIN AVE

Date:	**5/13/2021**
Permit Type:	**BLD**
Description:	**Install wall-mounted Illuminated signage**
Permit Description:	**BUILDING PERMIT**
Work Class:	CALIBER COLLISION
Proposed Use:	
Permit Number:	BLD2021-61453
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**7/11/2018**
Permit Type:	**BLD**
Description:	**Install 3 sets of illuminated channel letters, 4 sets of non- illuminated signs.**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2018-51411
Status:	EXP
Valuation:	$0.00
Contractor Company:	
Contractor Name:	TRACY SIGN INC.

ADJOINING PROPERTY FINDINGS

Date:	**7/11/2018**
Permit Type:	**PRJ**
Description:	**Architectural review of 3 new walls signs (totaling 186.78 sq.ft) on the exterior building elevations on an existing industrial building**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2018-12970
Status:	Approved, Ready to Issue
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/1/2018**
Permit Type:	**FIR**
Description:	**Install a fire sprinkler monitoring system in a T.I. (12 devices) to include the monitoring of a future backflow preventer.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-00480
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**4/7/2018**
Permit Type:	**FIR**
Description:	**Modify existing fire service, including new FDC, PIV & 10 inch RPDA backflow preventer (Hydraulic sprinkler revisions under FIR2018-337, including 15 psi pressure loss for backflow preventer).**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-00361
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**4/3/2018**
Permit Type:	**FIR**
Description:	**Install new fire sprinklers in 2 new spraybooths, 1 paint mixroom and new offices.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-00337
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**1/26/2018**
Permit Type:	**FIR**
Description:	**Installation of (2) auto paint booths and (1) paint mix room (Separate FD permit required to be submitted to SCFD for fire suppression system)**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-00097
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**1/24/2018**
Permit Type:	**BLD**
Description:	**INSTALLATION of 2 AUTO PAINT SPRAY BOOTHS to include Paint Mix Room. Install 2 concrete ventilation pits.Refer to BLD2017-49099 FOR TI**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2018-49572
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WEST COAST SPRAY BOOTH INC.

ADJOINING PROPERTY FINDINGS

Date:	**12/11/2017**
Permit Type:	**FIR**
Description:	**TI Renovation to an Automotive Collision Repair Facility to include, breakroom, onsite sidewalks and landscaping. New HVAC rooftop units (Separate FD permit required for spray booths/hazardous materials)**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2017-01527
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/5/2017**
Permit Type:	**BLD**
Description:	**TI Renovation to a Autmotive Collision Repair Facility to include, breakroom, onsite sidewalks and landscaping. New HVAC rooftop units. C OF O REQUIRED**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2017-49099
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MCGILLIS TRUST

ADJOINING PROPERTY FINDINGS

Date:	**12/5/2017**
Permit Type:	**PRJ**
Description:	**Arch review of a tenant improvement and onsite improvements including new restriping and landscape.**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2017-12418
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/5/2010**
Permit Type:	**BLD**
Description:	**COMM. RE-ROOF WITH, A MINERAL SURFACE CAPSHEET - BUILT UP**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2010-23992
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STATEWIDE ROOFING, INC

ADJOINING PROPERTY FINDINGS

Date:	**8/1/2005**
Permit Type:	**BLD**
Description:	**Install Four (N) Interior Windows in Existing Offices and Showroom**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2005-07035
Status:	Cancelled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ANTHONY'S ROOFING & CONSTRUCTION

598 MARTIN AVE

Date:	**5/11/2006**
Permit Type:	**BLD**
Description:	
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2006-09631
Status:	Cancelled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	UNION PACIFIC RAILROAD

ADJOINING PROPERTY FINDINGS

630 MARTIN AVE

Date:	**1/25/2021**
Permit Type:	**FIR**
Description:	**Remodel of 4,757 sf of existing warehouse space into new offices: a break room, restrooms, meeting rooms, and office cubicles. Exterior work include: accessible ramp, new electrical system, new mechanical system, new roof finishes and skylight.**
Permit Description:	**FIRE PERMIT**
Work Class:	TI
Proposed Use:	
Permit Number:	FIR2021-00081
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/17/2020**
Permit Type:	**BLD**
Description:	**Remodel of 4,757 sf of existing warehouse space into new offices.**
Permit Description:	**BUILDING PERMIT**
Work Class:	TI
Proposed Use:	
Permit Number:	BLD2020-60119
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**11/5/2018**
Permit Type:	**FIR**
Description:	**Modify existing sprinkler monitoring system, including installation of AES Radio Network**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-01431
Status:	EXP
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/16/2016**
Permit Type:	**BLD**
Description:	**Temporary portable office trailer (930 square feet area) with handicap ramp. Includes handicap parking spaces provided. To be on site for 12 months.**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2016-42028
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BOGARD CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**3/26/2014**
Permit Type:	**FIR**
Description:	**Repair of existing water-based fire protection system - (9) devices.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2014-00237
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/19/2014**
Permit Type:	**FIR**
Description:	**Replace (143) (E) upright sprinklers with Quick Repsonse Uprights, and addition of (55) (N) pendent sprinklers for new rooms. - Total (198) sprinklers**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2014-00202
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**6/25/2013**
Permit Type:	**FIR**
Description:	**Interior & Exterior Alterations: Includes Offices, Conference Rooms, Restrooms / (N) Exterior Metal Siding, Awnings, HVAC, Restripe Parking For (N) Tenant 'ALLIANCE ROOFING " / New C of O**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2013-00461
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/25/2013**
Permit Type:	**PRJ**
Description:	**Interior & Exterior Alterations To Include offices, conference Rooms, Restrooms / (N) Exterior Metal Siding, Awnings, HVAC, Restripe Parking For (N) Tenant 'ALLIANCE ROOFING " / New C of O**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2013-08264
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**6/19/2013**
Permit Type:	**BLD**
Description:	**Interior & Exterior Alterations To Include offices, conference Rooms, Restrooms / (N) Exterior Metal Siding, Awnings, HVAC, Restripe Parking For (N) Tenant 'ALLIANCE ROOFING " / New C of O**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2013-32039
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LPMD ARCHITECTS

Date:	**3/15/2013**
Permit Type:	**FIR**
Description:	**Install DCDA per City requirement - no fee permit.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2013-00185
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**3/15/2013**
Permit Type:	**PRJ**
Description:	**GRADING - to construct pervious surface driveway, no change to parking lot and striping**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2013-08052
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/27/2012**
Permit Type:	**BLD**
Description:	**GRADING - to construct pervious surface driveway, no change to parking lot and striping**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2012-30301
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BOGARD CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**11/24/2004**
Permit Type:	**BLD**
Description:	**reroof single ply membrane.**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2004-04072
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DINYARI INC

Date:	**3/9/2000**
Permit Type:	**FIR**
Description:	**BDYSHP; REMODELING AND ADDING MESSANNI AND OFFICES TO AN EXISTING BUILDING Note: Following text is from Page 2 of old 'Wintegrate' program - $353.44 FEES PAID AT CITY HALL**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2000-00230
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

631 MARTIN AVE

Date:	**1/21/2021**
Permit Type:	**FIR**
Description:	**ADD FIRE SPRINKLERS IN 1 ULTRA XD DOWNDRAFT BOOTH WITH EXHAUST DUCT AND NO BENDS AND 1 PIT.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2021-00058
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**1/6/2021**
Permit Type:	**FIR**
Description:	**Replacing 2 old Auto Spray Booths with 2 new ETL Listed prefabbed Spray Booths.**
Permit Description:	**FIRE PERMIT**
Work Class:	SPRAY BOOTH
Proposed Use:	
Permit Number:	FIR2021-00023
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**1/4/2021**
Permit Type:	**BLD**
Description:	**Replacing 2 old Auto Spray Booths with 2 new ETL Listed prefabbed Spray Booths.**
Permit Description:	**BUILDING PERMIT**
Work Class:	SPRAY BOOTH
Proposed Use:	
Permit Number:	BLD2021-60204
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/19/2015**
Permit Type:	**FIR**
Description:	**Fire panel replacement with ADD of cellular communicator.** **Existing manual pulls and notification devices will remain.** **Existing smoke detectors to be removed. This is a** **non-required (voluntary) fire alarm sytsem - 19 devices**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2015-00497
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**3/30/2015**
Permit Type:	**PRJ**
Description:	
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2015-09821
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**2/17/2015**
Permit Type:	**BLD**
Description:	**Remove (e) wall signs and install 3 (n) 5'-2 1/4" x 12' illuminated wall box signs that reads, "SERVICE KING COLLISON REPAIR CENTER"**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2015-37658
Status:	Expired
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FLUORESCO SERVICES, LLC

ADJOINING PROPERTY FINDINGS

Date:	**2/17/2015**
Permit Type:	**PRJ**
Description:	**Architectural review of replacement signage on an existing industrial property**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2015-09692
Status:	Approved, Ready to Issue
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/5/2014**
Permit Type:	**FIR**
Description:	**Re-cut (19) sprinklers for flush A/S; Add (4) ceiling sprinklers at new Breakroom; Replace (5) recessed sprinklers at restroom/office. - (28) Total**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2014-00451
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**6/5/2014**
Permit Type:	**PRJ**
Description:	**Interior improvement inc 2 new restooms and 2 new offices in existing space.** **Work in B occupancy 5/30/14 Add wall& elect in waiting room, add breakrm**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2014-09096
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/7/2014**
Permit Type:	**BLD**
Description:	**Interior improvement inc 2 new restooms and 2 new offices in existing space.** **Work in B occupancy 5/30/14 Add wall& elect in waiting room, add breakrm .//MF=20**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2014-34371
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PACIFIC BUILDERS INC

ADJOINING PROPERTY FINDINGS

Date: **1/8/2008**
Permit Type: **FIR**
Description: **Installing new spraybooth and fire suppression.**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2008-00018
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/28/2007**
Permit Type: **FIR**
Description: **Move existing Jaming booth and install new spray booth.**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2007-00675
Status: Cancelled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **11/1/2007**
Permit Type: **FIR**
Description: **Move existing Jaming booth and install new spray booth.**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2007-00627
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**11/1/2007**
Permit Type:	**PRJ**
Description:	**INSTALL NEW SPRAY BOOTH**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2007-03883
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**10/31/2007**
Permit Type:	**BLD**
Description:	**Remove (E) Parts Jamming Booth & Install (N) Spray Booth //**
	MF=9
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2007-15058
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	E-CON SOLUTIONS

ADJOINING PROPERTY FINDINGS

Date: **12/28/2000**
Permit Type: **BLD**
Description: **ADD ELEC TO BLD2000-14511 FOR CHAIN LINK FENCE**

******see bld2000-10974 for dwgs*****

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14943
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: E CON SOLUTIONS

Date: **11/21/2000**
Permit Type: **BLD**
Description: **PERMIT TO RE-NEW BLD2000-11538 FOR THE**

INSTALLATION OF CHAIN LINK FENCE ****see

bld2000-10974 for dwgs***

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14511
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: E CON SOLUTIONS

ADJOINING PROPERTY FINDINGS

Date: **11/21/2000**
Permit Type: **PRJ**
Description:

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2000-01438
Status: Application Received
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **7/24/2000**
Permit Type: **BLD**
Description: **METAL CANOPY AND (1) WALL OVER WASH BAY FIRE**

SUBMITAL SEPARATE FOR SPRINKLERS

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-12920
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: E CON SOLUTIONS

ADJOINING PROPERTY FINDINGS

Date: **6/30/2000**
Permit Type: **FIR**
Description: **TWO SPRAYBOOTHS, AND ONE STRIPPING BOOTH**

W/SPRINKLERS

SPRINKLERS DONE BY FIREMASTER

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2000-00660
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/13/2000**
Permit Type: **FIR**
Description: **82 heads**

FIREMASTER ADVISED TO SUBMIT SEPARATELY FOR

SPRAYBOOTH PERMIT - .TALKED W/RICK

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2000-00588
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **5/4/2000**
Permit Type: **BLD**
Description: **STORAGE RACK 8 FT/ADD MEZZ 13 ft. FIRE#P2000-433**

...P2000-433**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-11723
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: E-CON SOLUTIONS

Date: **5/4/2000**
Permit Type: **FIR**
Description: **STORAGE RACKS AND MEZZANINE**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2000-00433
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**4/20/2000**
Permit Type:	**BLD**
Description:	**THIS PERMIT WAS RENEWED BY**
	BLD2000-14511/INSTALLATION OF CHAIN LINK FENCE
	******see bld2000-10974 for dwgs*****
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2000-11583
Status:	Expired
Valuation:	$0.00
Contractor Company:	
Contractor Name:	E CON SOLUTIONS

Date:	**4/13/2000**
Permit Type:	**FIR**
Description:	
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2000-00340
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **4/12/2000**
Permit Type: **BLD**
Description: **DEMO. NON-STRUCTURAL (INTERIOR)**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-11489
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: E-CON SOLUTIONS

Date: **4/11/2000**
Permit Type: **BLD**
Description: **INSTALL 60 FT. FLAG POLE**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-11462
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: E-CON SOLUTIONS

ADJOINING PROPERTY FINDINGS

Date: **3/16/2000**
Permit Type: **PRJ**
Description: **INTERIOR REMODEL FOR AUTO BODYWORK**

(INCOMPLETE SUBMITTAL)

INCL. MODULAR SPRAY & MIXING BOOTHS) P00-0230

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2000-01039
Status: Application Received
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/9/2000**
Permit Type: **BLD**
Description: **INTERIOR REMODEL FOR AUTO BODYWORK (INCL.**

MODULAR SPRAY & MIXING BOOTHS) P00-0230

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-10974
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: E-CON SOLUTIONS

ADJOINING PROPERTY FINDINGS

650 MARTIN AVE

Date:	**12/16/2019**
Permit Type:	**BLD**
Description:	**Installation of (2) non-illuminated wall mounted plastic letter signs on concrete block wall using blind studs.**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2019-57048
Status:	ACT
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/3/2019**
Permit Type:	**BLD**
Description:	**Insatllation 1 - 12' high non-high pile storage rack to store Class III commodities**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2019-54607
Status:	EXP
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **5/2/2019**
Permit Type: **FIR**
Description: **Upgrade below grade check to a new 8-inch Watts LF909 RPDA backflow preventer.**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2019-00596
Status: FNL
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **4/5/2019**
Permit Type: **FIR**
Description: **Replace existing FACU with a new panel, will be reconnecting waterflow butterfly valve to new fire alarm panel, install new GSM.**

Permit Description: **FIRE PERMIT**
Work Class: PENINSULA BUILDING MATERIALS
Proposed Use:
Permit Number: FIR2019-00465
Status: FNL
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **1/14/2019**
Permit Type: **FIR**
Description: **Modify existing fire sprinkler system for tenant improvement (includes hydraulic calculations for new pressure loss of backflow preventer)**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2019-00073
Status: FNL
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**12/7/2018**
Permit Type:	**BLD**
Description:	**Interior demo only at 1st and partial 2nd floor; partitions, doors, ceilings, plumbing and lighting fixtures. "Peninsula Building Materials"**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2018-53160
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**9/27/2018**
Permit Type:	**FIR**
Description:	**Interior remodel of exist. 2-story approx 9,000 SF office area to accommodate PDM's 4,500 S.F. wholesale merchandise on the ground floor and offices on the second floor. site work includes conc. material builder (deferred submittal), new conc. loading docki, and minor site demo.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-01221
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**9/27/2018**
Permit Type:	**PRJ**
Description:	**TI Office Area to accommodate PBM's 4500 Sq Ft wholesale Merchandise. 2nd Floor site work includes Partitions, Doors , New Finishes, Break Area. Exterior resurfacing of Parking Lot and Rear lot, Demo (e) Ancillary Structures, New Truck DOck.**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2018-13204
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**9/26/2018**
Permit Type:	**BLD**
Description:	**TI 3/13/2019 Revision Extenstion to (e) Mezzanine 150 Sq Ft to include stairs.Create Office Area. 2nd Floor site work includes Partitions, Doors , New Finishes, Break Area. Exterior resurfacing of Parking Lot and Rear lot, Demo (e) Ancillary Structures, New Truck Dock. C OF O REQUIRED.REVISION 3/12/19: Extend (e) mezzanine to 150 sq ft and add stairs to both existing mezzanines.**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2018-52369
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PENINSULA BUILDING MATERIALS

ADJOINING PROPERTY FINDINGS

Date:	**6/6/2018**
Permit Type:	**FIR**
Description:	**Recology South Bay is ceasing operations and re-locating to a different location in San Jose, CA. The facility has been sold to Peninsula Building Materials.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-00630
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/6/2018**
Permit Type:	**FIR**
Description:	**Recology is ceasing operations. Cleaning/Removal of 6 AST tanks.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-00632
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**6/6/2018**
Permit Type:	**PRJ**
Description:	**Recology South Bay is ceasing operations and re-locating to a different location in San Jose, CA. The facility has been sold to Peninsula Building Materials.**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2018-12869
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/14/2014**
Permit Type:	**BLD**
Description:	**Reroof: tear off existing asphalt shingle, install 1 layer Glaskap CR (ASTM D 3909) over OSB**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2014-36862
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	TEO'S ROOFING & WATERPROOFING

ADJOINING PROPERTY FINDINGS

801 MARTIN AVE

Date:	**12/7/2020**
Permit Type:	**FIR**
Description:	**CONNECT NEW BACKFLOW TO FIRE ALARM SYSTEM (1 DEVICE)**

Permit Description:	**FIRE PERMIT**
Work Class:	PLANET GRANITE
Proposed Use:	
Permit Number:	FIR2020-01160
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/1/2020**
Permit Type:	**BLD**
Description:	**INSTALL Monument Sign**

Permit Description:	**BUILDING PERMIT**
Work Class:	SIGN
Proposed Use:	
Permit Number:	BLD2020-59971
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**2/5/2020**
Permit Type:	**FIR**
Description:	**All sprinklers within entire building to be changed out from standard response to quick response type sprinklers (1315 heads).**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2020-00129
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/30/2019**
Permit Type:	**FIR**
Description:	**Fire sprinkler backflow installation - Remove existing single check valve at ungerground vault and install new reduced pressure detector assembly aboveground.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2019-00898
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**6/7/2019**
Permit Type:	**BLD**
Description:	**Installation of 1 Cabinet sign illuminated "Planet Granite"**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2019-55059
Status:	ACT
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/3/2019**
Permit Type:	**FIR**
Description:	**Modification to fire alarm system due to new tenant "Planet Granite". Add new power supply, modules, smoke detector and notification appliances. Existing fire alarm panel to remain.**
Permit Description:	**FIRE PERMIT**
Work Class:	PLANET GRANITE
Proposed Use:	
Permit Number:	FIR2019-00598
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**4/29/2019**
Permit Type:	**FIR**
Description:	**Fire sprinkler TI (43 heads).**
Permit Description:	**FIRE PERMIT**
Work Class:	PLANET GRANITE
Proposed Use:	
Permit Number:	FIR2019-00567
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**3/25/2019**
Permit Type:	**FIR**
Description:	**COMM T/I for an (e) tenant space to construct a (n) indoor rock climbing/ training facility. Include associated M-E-P work.**
Permit Description:	**FIRE PERMIT**
Work Class:	PLANET GRANITE
Proposed Use:	
Permit Number:	FIR2019-00402
Status:	CNC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/8/2019**
Permit Type:	**BLD**
Description:	**Demo interior partitions, ceiling, fixtures, finishes in preparation for TI (BLD2019-53348)**
Permit Description:	**BUILDING PERMIT**
Work Class:	PLANET GRANITE
Proposed Use:	
Permit Number:	BLD2019-53997
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**1/10/2019**
Permit Type:	**FIR**
Description:	**BLDG - Fire Fees Paid - COMM T/I for an (e) tenant space to construct a (n) indoor rock climbing/ training facility. Include associated M-E-P work. The ceiling suspension system is approved for the use of flex-heads.**
Permit Description:	**FIRE PERMIT**
Work Class:	PLANET GRANITE
Proposed Use:	
Permit Number:	FIR2019-00029
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**1/3/2019**
Permit Type:	**BLD**
Description:	**COMM T/I Construct a (n) indoor rock climbing/ training facility. Include associated M-E-P work, on-site improvements and grading. "PLANET GRANITE" C OF O REQUIRED**
Permit Description:	**BUILDING PERMIT**
Work Class:	PLANET GRANITE
Proposed Use:	
Permit Number:	BLD2019-53348
Status:	ACT
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**6/30/2018**
Permit Type:	**FIR**
Description:	**PCC - Fire fees paid - Comments due 7/20/18 - Meeting date = 7/24/18** **Use Permit application to build an outdoor training area enclosed by fence, adding new signs and painting the exterior. Currently vaccant site, previously occupied by ClubOne Fitness under U.2012.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-00741
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/30/2018**
Permit Type:	**FIR**
Description:	**PCC - Fire fees paid - Comments due 7/20/18 - Meeting date = 7/24/18.** **Use Permit application to build an outdoor training area enclosed by fence, adding new signs and painting the exterior. Currently vaccant site, previously occupied by ClubOne Fitness under U.2012.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2018-00743
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**6/30/2018**
Permit Type:	**PRJ**
Description:	**Use Permit application to build an outdoor training area enclosed by fence, adding new signs and painting the exterior. Currently vaccant site, previously occupied by ClubOne Fitness under U.2012.**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2018-12944
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**12/16/2002**
Permit Type:	**BLD**
Description:	**ADD MECH TO BLD2001-12451**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2002-04132
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOUTH BAY CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **9/25/2001**
Permit Type: **BLD**
Description: **Add Partial Elec to Bld20012451 (Outlets for Server Rm. #127)**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2001-12796
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SASCO ELECTRIC

Date: **8/31/2001**
Permit Type: **BLD**
Description: **TENANT IMPROVEMENT**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2001-12451
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: MINERT ARCHITECTS

Date: **7/2/2001**
Permit Type: **BLD**
Description: **add electric to wall sign "Club one Silicon Valley".**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2001-11949
Status: Expired
Valuation: $0.00
Contractor Company:
Contractor Name: THOMAS SWAN SIGN CO INC

ADJOINING PROPERTY FINDINGS

Date: **7/2/2001**
Permit Type: **PRJ**
Description: **Wall Sign - 80 sq.ft cabinet - halo illuminated letters**

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2001-01328
Status: Application Received
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/2/2001**
Permit Type: **BLD**
Description: **RE-ROUTE GAS LINE / GAS TEST**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2001-10339
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: DRAIN PATROL

821 MARTIN AVE

Date: **3/10/2015**
Permit Type: **FIR**
Description: **Add to fire alarm, horn strobs. 2 devices.**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2015-00220
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **3/10/2015**
Permit Type: **PRJ**
Description: **Tenant improvement: Expanding 2114 sq ft into existing suite**

801. Resulting in 22,479 sq ft. New C of O required

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2015-09757
Status: Active
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **2/9/2015**
Permit Type: **BLD**
Description: **CANCELLED** INTERIOR T.I. TO INCLUDE (N)**

NON-BEARING WALLS, CONVERSION OF MECHANICAL

REGISTERS AND ADDING ELECTRICAL OUTLETS

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2015-37572
Status: Cancelled
Valuation: $0.00
Contractor Company:
Contractor Name: GAHRAHMAT FAMILY LP II

ADJOINING PROPERTY FINDINGS

Date:	**2/9/2015**
Permit Type:	**BLD**
Description:	**Tenant improvement: Expanding 2114 sq ft into existing suite 801. Resulting in 22,479 sq ft. New C of O required**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2015-37577
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	METHOD CONSTRUCTION, INC

Date:	**1/7/2014**
Permit Type:	**FIR**
Description:	**Add (6) and relocate (20) fire sprinklers for new floor plan - Total 26**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2014-00023
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**1/6/2014**
Permit Type:	**FIR**
Description:	**Adding to establish Fire Alarm 8 devices throughout**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2014-00013
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/8/2013**
Permit Type:	**FIR**
Description:	**Int. alt. to create new office & lobby area, & relocate power for future reprographic equipment (See FIR2013-679/BLD2013-32495)**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2013-00864
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**11/8/2013**
Permit Type:	**PRJ**
Description:	**Int alt to create new office and lobby area, and relocate power power for future reprographic eqiupment (SEE BLD2013-32495 for C of O)**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2013-08596
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/5/2013**
Permit Type:	**BLD**
Description:	**Int alt to create new office and lobby area, and relocate power power for future reprographic eqiupment (SEE BLD2013-32495 for C of O)**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2013-33345
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	METHOD CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **9/19/2013**
Permit Type: **FIR**
Description: **Modify existing Fire Alarm System to allow TI adding (11) devices and relocating (3) in new offices**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2013-00702
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/12/2013**
Permit Type: **FIR**
Description: **INTERIOR ALTERATION- construct partition walls,new lighting, relocate exhaust ducts; anchorage of printing tools; demising wall to create 821 Martin; NEW CO to change OCC and Add 821 Martin**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2013-00679
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**9/12/2013**
Permit Type:	**PRJ**
Description:	**INTERIOR ALTERATION- construct partition walls,new lighting, relocate exhaust ducts; anchorage of printing tools; demising wall to create 821 Martin; NEW CO to change OCC and Add 821 Martin**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2013-08472
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**8/8/2013**
Permit Type:	**BLD**
Description:	**INTERIOR ALTERATION- Downsize 831 construct partition walls,new lighting, relocate exhaust ducts; anchorage of printing tools; demising wall to create 821 Martin; NEW CO to change OCC and Add 821 Martin**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2013-32495
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PLATINUM BUILDERS

ADJOINING PROPERTY FINDINGS

Date: **2/2/2005**
Permit Type: **FIR**
Description: **76 devices**

3-17-05 OT request to Soqui

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2005-00079
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/17/2002**
Permit Type: **FIR**
Description: **24 HEADS**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2002-00442
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/12/2002**
Permit Type: **BLD**
Description: **alter interior to create (n) offices and conference rooms**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2002-02416
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTH BAY CONSTRUCTION

ADJOINING PROPERTY FINDINGS

831 MARTIN AVE

Date:	**7/16/2013**
Permit Type:	**BLD**
Description:	**Interior Non-Structural Demo**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2013-32267
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PLATINUM BUILDERS

Date:	**2/22/2012**
Permit Type:	**FIR**
Description:	**Add and relocate (38) heads throughout**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2012-00140
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**1/24/2012**
Permit Type:	**BLD**
Description:	**Interior Alterations To Downsize 831 Martin / Re-Activate 851 Martin / Create (N) Offices & Conference Room For Future Tenants / (N) C of O. //MF=18**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2012-27680
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	TOENISKOETTER CONSTRUCTION

Date:	**1/31/2007**
Permit Type:	**FIR**
Description:	**Add 5 pendents, 4 uprights and plug 5 in office and breakroom areas**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2007-00063
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **12/22/2005**
Permit Type: **BLD**
Description: **Install (3) new lamp post at the northside parking lot of building**

B

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2005-08440
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: W.B. ELECTRIC

Date: **7/22/2005**
Permit Type: **BLD**
Description: **Add mechanical to BLD2005-06480 MF=40**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2005-06910
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SMC MECHANICAL

Date: **7/1/2005**
Permit Type: **FIR**
Description: **Upgrading existing fire alarm system by adding 24 devices**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2005-00418
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/30/2005**
Permit Type: **FIR**
Description: **Add 14 uprights, relocate 26 pendents, add 5 new pendents, in offices, conference room and lobby.**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2005-00416
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/27/2005**
Permit Type: **BLD**
Description: **Add Electrical to BLD2005-06480 MF=4**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2005-06685
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: FARRIS ELECTRIC

Date: **6/24/2005**
Permit Type: **BLD**
Description: **ADD PLUMBING TO BLD2005-06480 MF=1**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2005-06658
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: CASTRO PLUMBING

ADJOINING PROPERTY FINDINGS

Date:	**6/24/2005**
Permit Type:	**PRJ**
Description:	**INTERIOR ALTERATIONS TO (E) OFFICES COMBINING (2) UNITS 831/851 - ELIMINATES 851 / (2) EXTERIOR HAND. RAMPS**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2005-02084
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/6/2005**
Permit Type:	**BLD**
Description:	**INTERIOR ALTERATIONS TO (E) OFFICES COMBINING (3) UNITS 821,831/851 - ELIMINATES 851,821 / (2) EXTERIOR HAND. RAMPS MF=15**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2005-06480
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JOYCE LINDSEY, TRUSTEE

ADJOINING PROPERTY FINDINGS

Date: **4/1/2005**
Permit Type: **BLD**
Description: **Add Elec to Bld2005-05676 for the relocation of water heater**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2005-05737
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: WINTEC SERVICES

Date: **4/1/2005**
Permit Type: **PRJ**
Description: **R/R WATER HEATER**

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2005-01883
Status: Active
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/29/2005**
Permit Type: **BLD**
Description: **R/R WATER HEATER**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2005-05676
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SOARES PLUMBING & MECHANICAL

ADJOINING PROPERTY FINDINGS

Date:	**2/7/2005**
Permit Type:	**BLD**
Description:	**Add electric to BLD 2005-05136 (interior alterations for (E) offices)** **MF=3**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2005-05293
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	REDWOOD CITY ELECTRIC

Date:	**2/2/2005**
Permit Type:	**BLD**
Description:	**Add mech to BLD2005-05136** **MF=3**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2005-05255
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AIRE SHEET METAL

ADJOINING PROPERTY FINDINGS

Date:	**1/28/2005**
Permit Type:	**BLD**
Description:	**Add Plumbing for (N) sinks, eye wash area & Mech. for (N) compessor for lab stations on exist Bld2005-05136 (Align Technologies) MF=1**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2005-05211
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOARES PLUMBING & MECHANICAL

Date:	**1/28/2005**
Permit Type:	**PRJ**
Description:	**INTERIOR ALTERATIONS FOR (E) OFFICES**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2005-01741
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **1/19/2005**
Permit Type: **BLD**
Description: **INTERIOR ALTERATIONS FOR (E) OFFICES**

MF=17

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2005-05136
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: JOYCE LINDSEY

Date: **3/16/2001**
Permit Type: **BLD**
Description: **NEW CERT. OF OCCUPANCY FOR REDUCTION OF OFFICE**

SPACE

****NOTE TO PERMIT TECHS: There are several active permits**

and expired permits for these addresses (disregard 881

address). Please review both active and expired permits.

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2001-10831
Status: Cancelled
Valuation: $0.00
Contractor Company:
Contractor Name: JOYCE LINDSEY

ADJOINING PROPERTY FINDINGS

Date:	**8/6/2000**
Permit Type:	**BLD**
Description:	**ADD (2) OVENS (SEMI CHIP WARMING)**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2000-13107
Status:	Cancelled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLEX ELECTRIC

Date:	**7/26/2000**
Permit Type:	**BLD**
Description:	**Permit has been superseded by BLD2005-06480 // RE NEW EXPIRED PERMIT BLD2000-12956 ADD ELECTRIC TO BLD2000-12391**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2000-12956
Status:	Expired
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JAMES LINDSEY

ADJOINING PROPERTY FINDINGS

Date: **6/21/2000**
Permit Type: **BLD**
Description: **Permit superseded by BLD2005-06480 to remain expired // RE NEW EXPIRED PERMIT BLD2000-12391 INTERIOR T.I. ADD DEMISING WALL UNIT SPLIT 831 / 851 - NO NEW C OF O REQUIRED PERMIT BLD2005-06480 REQUIRES NEW C OF O SUPERCEDES -**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-12391
Status: Expired
Valuation: $0.00
Contractor Company:
Contractor Name: JAMES LINDSEY

Date: **6/21/2000**
Permit Type: **BLD**
Description: **Permit superseeded by BLD2005-06480 // RE NEW EXPIRED PERMIT BLD2000-12392 UNIT SPLIT (831 / 851) 26,000 SQ FT NEW C OF O REQUIRED PLAN CHECK FEE PAID ON BLD2000-12391**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-12392
Status: Expired
Valuation: $0.00
Contractor Company:
Contractor Name: JOYCE LINDSEY

ADJOINING PROPERTY FINDINGS

851 MARTIN AVE

Date:	**8/24/2019**
Permit Type:	**FIR**
Description:	**Modifications to existing notification (23) devices**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2019-01133
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**8/20/2019**
Permit Type:	**FIR**
Description:	**Install and relocate a total of 164 sprinkler heads due to new walls and ceiling**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2019-01115
Status:	RSB
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/20/2019**
Permit Type:	**BLD**
Description:	**Interior demolition for furture t/i permit - SEE BLD219-54993**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2019-55199
Status:	ACT
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**6/5/2019**
Permit Type:	**FIR**
Description:	**COMM T/I- Interior demo & alterations to enlarge 851 Martin Ave, create (n) offices, conference rooms, ADA compliant restrooms, ADA parking. Include associated MEP work. ***New C of O required*** **
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2019-00774
Status:	REC
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/31/2019**
Permit Type:	**BLD**
Description:	**COMM T/I- Interior demo & alterations to enlarge 851 Martin Ave, create (n) offices, conference rooms, ADA compliant restrooms, ADA parking. Include associated MEP work. ***New C of O required*** **
Permit Description:	**BUILDING PERMIT**
Work Class:	JJI EXPANSION
Proposed Use:	
Permit Number:	BLD2019-54993
Status:	FNL
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**2/22/2012**
Permit Type:	**PRJ**
Description:	**Interior Alterations To Downsize 831 Martin / Re-Activate 851 Martin / Create (N) Offices & Conference Room For Future Tenants / (N) C of O**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2012-07182
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**2/14/2012**
Permit Type:	**FIR**
Description:	**Addition of notification devices to match existing - 9 devices**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2012-00125
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**8/29/2001**
Permit Type:	**BLD**
Description:	**ADD (1) (N) A/C UNIT ON ROOF TOP**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2001-12420
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FERREIRA SERVICE INC

Date:	**3/16/2001**
Permit Type:	**PRJ**
Description:	**Add New Wall for Expansion of Office Space**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2001-01139
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **3/8/2001**
Permit Type: **BLD**
Description: **ADD WALL FOR EXPANSION OF TENANT SPACE**

NOTE TO PERMIT TECHS: There are several TI permits and

expired permits for suite expansions, improvements, etc.

Please review history and expired permits

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2001-10722
Status: Application Expired
Valuation: $0.00
Contractor Company:
Contractor Name: MINERT ARCHITECTS

Date: **11/16/2000**
Permit Type: **BLD**
Description: **add exterior lighting/ 6 fixtures on exterior parapit wall**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14465
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: ELECTRIC.COM

ADJOINING PROPERTY FINDINGS

Date: **10/18/2000**
Permit Type: **BLD**
Description: **ADD ELEC TO MODULAR OFFICE PARTITIONS.....NO BP**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14085
Status: Expired
Valuation: $0.00
Contractor Company:
Contractor Name: MEDIAN MANAGEMENT GROUP

Date: **9/13/2000**
Permit Type: **BLD**
Description: **ALTER INTERIOR FOR DIFFERENT TENANT**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-13591
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: MEDIAN MANAGEMENT GROUP

Date: **8/9/2000**
Permit Type: **FIR**
Description: **ADD 2 HEADS IN NEW OFFICES**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2000-00794
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **7/26/2000**
Permit Type: **PRJ**
Description:

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2000-01247
Status: Application Received
Valuation: $0.00
Contractor Company:
Contractor Name:

881 MARTIN AVE

Date: **2/4/2016**
Permit Type: **FIR**
Description: **Add/relocate sprinklers below t-bar CLG at T.I. area NFPA 13**

Add 4 Relocate 28

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2016-00164
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**1/28/2016**
Permit Type:	**BLD**
Description:	**FINISH INTERIOR T I 4445 Sq FT FOR SVP REDUCTING TO SITE NEW LAYOUT NEW CONCRETE RAMP NEW SIGNAGE ADA / NEW STRIPING**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2016-41529
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	TECHNICAL BUILDERS

Date:	**1/28/2016**
Permit Type:	**PRJ**
Description:	**INTERIOR REMOVE 5 Walls, 7 Doors, Restroom Partitions . Ceilings remain no electrical Non- Structural**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2016-10705
Status:	Active
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**1/19/2016**
Permit Type:	**BLD**
Description:	**INTERIOR REMOVE 5 Walls, 7 Doors, Restroom Partitions .**
	Ceilings remain no electrical Non- Structural
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2016-41376
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	TECHNICAL BUILDERS

Date:	**12/17/2014**
Permit Type:	**BLD**
Description:	**CRN2014-01253; Repair storm drain damaged by tree roots in**
	parking lot
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2014-37156
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ABCO PLUMBING, INC

ADJOINING PROPERTY FINDINGS

Date: **12/17/2014**
Permit Type: **PRJ**
Description:

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2014-09570
Status: Active
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **6/21/2010**
Permit Type: **FIR**
Description: **Complete closure of facility**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2010-00338
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**12/12/2005**
Permit Type:	**BLD**
Description:	**Installation of a 300 KW Permanent Emergency Standby Generator & Pad**
	Transfer switch installed under BLD2002-01594
	MF=3
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	BLD2005-08347
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GOOLD ELECTRIC

Date:	**12/12/2005**
Permit Type:	**FIR**
Description:	**Install one 350 gallon diesel tank for standby emergency generator - outside.**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2005-00756
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**12/12/2005**
Permit Type:	**PRJ**
Description:	**Arch review for installation of a 300-kw diesel generator at a MH zoned building**
Permit Description:	**PROJECT**
Work Class:	
Proposed Use:	
Permit Number:	PRJ2005-02421
Status:	Application Received
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**1/27/2005**
Permit Type:	**FIR**
Description:	**11 HEADS OTC 1/28/05 W/GIANG**
Permit Description:	**FIRE PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	FIR2005-00067
Status:	Finaled
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **10/17/2003**
Permit Type: **BLD**
Description: **ADD (2) STEEL ROOFTOP PLATFORMS FOR two CHILLERS.**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2003-06849
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTH BAY CONSTRUCTION

Date: **8/15/2002**
Permit Type: **FIR**
Description: **INSTALL 6 DEVICES TO MONTIOR 3 EXISTING FM-200**

SYSTEMS

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2002-00608
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/21/2002**
Permit Type: **BLD**
Description: **add elec to (e) server room: add UPS (no bp req'd)**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2002-01594
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: GOOLD ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **3/19/2002**
Permit Type: **FIR**
Description: **NEW UPS ROOM W/ 180SF BATTERY ROOM**

OT PLAN REVIEW TO BE DONE BY DEB BY 4-5-02

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2002-00178
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **3/15/2002**
Permit Type: **BLD**
Description: **INTERIOR ALTERATION BUILD (1) (N) INT. WALL**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2002-01546
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTH BAY CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **2/11/2002**
Permit Type: **FIR**
Description: **ADDING ONE DETECTOR**

OTC 2-13-02 11AM

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2002-00099
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/4/2001**
Permit Type: **FIR**
Description: **EXPAND EXISTING PRE-ACTION SUPPRESSION SYSTEMS**

TO INCLUDE FE-227 AGENT

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2001-01081
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **10/18/2001**
Permit Type: **FIR**
Description: **49 DEVICES**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2001-00965
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/28/2001**
Permit Type: **FIR**
Description: **3 PREACTION SYSTEMS**

48 HEADS

paid additional fees on 10/12/01 of $300.00 by credit card

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2001-00918
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/25/2001**
Permit Type: **PRJ**
Description: **TENANT IMPROVEMENT**

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2001-01461
Status: Application Received
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/29/2001**
Permit Type: **BLD**
Description: **ADD MECH TO BLD2000-13066 / ALTER DUCTWORK**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2001-12431
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTH BAY CONSTRUCTION

Date: **8/23/2001**
Permit Type: **BLD**
Description: **Add Electric for New Office Enclosures**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2001-12391
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SASCO ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **1/12/2001**
Permit Type: **BLD**
Description: **install aluminum canopy over shipping and recieving area**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2001-10110
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SAV-AWN ALUMINUM PRODUCTS

Date: **11/14/2000**
Permit Type: **FIR**
Description: **7 HEADS**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2000-01187
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/31/2000**
Permit Type: **BLD**
Description: **ADD ELEC FOR PHASE 3 LOBBY**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14247
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SASCO ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **10/31/2000**
Permit Type: **BLD**
Description: **ADD MECH TO BLD2000-14145 (4) ALTERATIONS**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14249
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: AIR SYSTEMS, INC.

Date: **10/31/2000**
Permit Type: **PRJ**
Description: **create a lobby**

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2000-01399
Status: Active
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **10/23/2000**
Permit Type: **BLD**
Description: **create a lobby**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14145
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTH BAY CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **10/16/2000**
Permit Type: **BLD**
Description: **add plumbing to: PHASE 2: INTERIOR ALTERATION FOR FUTURE OFFICES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14050
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTH BAY CONSTRUCTION

Date: **10/12/2000**
Permit Type: **BLD**
Description: **ADD MECH (ALTER DUCTWORK FOR 2 SYSTEMS) FOR OFFICES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14005
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: AIR SYSTEMS, INC.

ADJOINING PROPERTY FINDINGS

Date: **10/12/2000**
Permit Type: **BLD**
Description: **ADD ELEC FOR OFFICES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-14007
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SASCO ELECTRIC

Date: **10/12/2000**
Permit Type: **PRJ**
Description: **PHASE 2: INTERIOR ALTERATION FOR FUTURE OFFICES**

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2000-01375
Status: Active
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/22/2000**
Permit Type: **FIR**
Description: **75 HEADS**

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2000-00970
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/14/2000**
Permit Type: **BLD**
Description: **ADD MECH TO BLD2000-13066**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-13632
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: AIR SYSTEMS, INC.

Date: **9/13/2000**
Permit Type: **BLD**
Description: **PHASE 2: INTERIOR ALTERATION FOR FUTURE OFFICES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-13589
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTH BAY CONSTRUCTION

Date: **9/5/2000**
Permit Type: **FIR**
Description: **RELOCATE AND ADD PENDENT SPRINKLERS AT CEILING**

LEVEL FOR NEW WALL LAYOUT. 120 HEADS.

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2000-00906
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **8/24/2000**
Permit Type: **BLD**
Description: **add electric to:**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-13345
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SASCO ELECTRIC

Date: **8/16/2000**
Permit Type: **BLD**
Description: **ADD PLUMBING TO BLD2000-13066 (4) NEW SINKS**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-13251
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: AIR SYSTEMS, INC.

Date: **8/16/2000**
Permit Type: **FIR**
Description:

Permit Description: **FIRE PERMIT**
Work Class:
Proposed Use:
Permit Number: FIR2000-00821
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **8/4/2000**
Permit Type: **PRJ**
Description: **INTERIOR TENANT IMPROVEMENTS (31943 sft) DEBBIE TO COME BACK WITH LETTER FOR ENG HAO/ HOLD ON PERMIT!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! EVERYTHING IS ON DIANES DESK**

Permit Description: **PROJECT**
Work Class:
Proposed Use:
Permit Number: PRJ2000-01262
Status: Active
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **8/3/2000**
Permit Type: **BLD**
Description: **PHASE 1: INTERIOR IMPROVEMENTS FOR FUTURE OFFICES**

Permit Description: **BUILDING PERMIT**
Work Class:
Proposed Use:
Permit Number: BLD2000-13066
Status: Finaled
Valuation: $0.00
Contractor Company:
Contractor Name: SOUTH BAY CONSTRUCTION

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

651 Martin Avenue
651 MARTIN AVE
SANTA CLARA, CA 95050

Inquiry Number: 6569892.5
July 09, 2021

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	X	X	X	-
2014	Cole Information Services	X	X	X	-
2009	Cole Information Services	X	X	X	-
2006	Haines Company, Inc.	-	-	-	-
2004	Cole Information Services	X	X	X	-
2001	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2000	Haines Company	-	-	-	-
1999	Cole Information Services	X	X	X	-
1996	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1994	Cole Information Services	X	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1991	PACIFIC BELL WHITE PAGES	-	X	X	-
1986	Pacific Bell	-	X	X	-
1985	Pacific Bell	-	X	X	-
1982	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	-	X	X	-
1978	R. L. Polk & Co.	-	-	-	-
1975	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1974	R. L. Polk Co.	-	X	X	-
	R. L. Polk Co.	X	X	X	-
1970	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1968	R. L. Polk Co.	-	-	-	-
1966	R. L. POLK	-	-	-	-
1965	R. L. Polk Co.	-	-	-	-
1964	R. L. Polk Co.	-	-	-	-
1963	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1962	R. L. Polk & Co.	-	-	-	-
1960	R. L. Polk Co.	-	X	X	-
	R. L. Polk Co.	X	X	X	-
1957	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
	R. L. Polk Co.	-	X	X	-
	R. L. Polk Co.	X	X	X	-
1955	R. L. Polk Co.	-	X	X	-
	R. L. Polk Co.	X	X	X	-
1950	R. L. Polk Co.	-	-	-	-
1946	R. L. Polk Co.	-	-	-	-
1945	R. L. Polk Co.	-	-	-	-
1942	R.L. Polk	-	-	-	-
1940	R. L. Polk Co.	-	-	-	-
1936	R. L. Polk Co.	-	-	-	-
1935	R. L. Polk Co.	-	-	-	-
1931	R. L. Polk Co.	-	-	-	-
1930	R. L. Polk Co. of California	-	-	-	-
1926	R. L. Polk Co.	-	-	-	-
1925	R. L. Polk & Co.	-	X	X	-
1922	R. L. Polk Co.	-	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

651 MARTIN AVE
SANTA CLARA, CA 95050

FINDINGS DETAIL

Target Property research detail.

MARTIN AVE

651 MARTIN AVE

Year	Uses	Source
2017	LEE BROS FOOD SERVICE INC	Cole Information Services
2014	LEE BROS FOOD SERVICE INC	Cole Information Services
2009	ANGEL MOBILE CATERING TRUCK REPAIR	Cole Information Services
	LEE INDUSTRIAL CATERING	Cole Information Services
	MARISCOS LA COSTINA	Cole Information Services
2004	CHUBBY CATERING	Cole Information Services
	CVM COMMERCIAL VECHILE MANT	Cole Information Services
	DE JAROCHAS	Cole Information Services
	HOANG NGUYEN	Cole Information Services
	LEE BROTHERS FOODSERVICES INC	Cole Information Services
	NGUYEN NHUNG	Cole Information Services
	PAULINAS CATERING	Cole Information Services
	PILYS TRUCK	Cole Information Services
	SANG TRAN CATERING FOOD SRVC	Cole Information Services
	TINA SABROSA	Cole Information Services
2001	GAHRAHMATMahmoud LEE INDSTRL 0 ATER 8 G	Haines Company, Inc.
	PRECISION AUTO	Haines Company, Inc.
	SERVICE	Haines Company, Inc.
1999	LEE INDUSTRIAL CATERING	Cole Information Services
	NGUYEN TAM THAMH	Cole Information Services
	PRECISION AUTO SERVICE	Cole Information Services
1996	AUTO PARTS CLUB	Pacific Bell
	BA CATERING TRUCK REPAIR	Pacific Bell
	E LEE INDUSTRIAL CATERING	Pacific Bell
1994	B A CATERING TRUCK REPAIR	Cole Information Services

FINDINGS

Year	Uses	Source
1994	LEE INDUSTRIAL CATERING	Cole Information Services
1975	AMERICAN FOREST PRODUCTS LARSON DIV	Pacific Telephone
	BENDIX THE CORPORATION LARSON DIV OF AMERICAN FOREST PRODUCTS	Pacific Telephone
1974	American Forest Products Div Subs Bendix ladder mfg	R. L. Polk Co.
1970	General Box Distributors	R. L. Polk & Co.
	Larson Mfg Inc ladder mfg	R. L. Polk & Co.
1963	LARSON LADDER CO	Pacific Telephone
	Larson Louis C Larson Ladder Co	Pacific Telephone
1960	Larson Ladder Co mfrs ax	R. L. Polk Co.
1957	I	R. L. Polk Co.
	Larson Ladder Co	R. L. Polk Co.
	Larson Louis C Larson Laddr Co	R. L. Polk Co.
1955	Larson Ladder Co A AX	R. L. Polk Co.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

MARTIN AVE

530 MARTIN AVE

Year	Uses	Source
2009	ALPHA GRANITE & MARBLE INC	Cole Information Services
2001	OPOLLACK Robert	Haines Company, Inc.
	ALPHA	Haines Company, Inc.
1999	TRANS PAK INCORPORATED	Cole Information Services
1996	TRANS PAK INC	Pacific Bell
1994	TRANS PAK INC	Cole Information Services
1991	TRANS-PAK INC	PACIFIC BELL WHITE PAGES
	Trans Pak Inc	PACIFIC BELL WHITE PAGES
1986	General Electric Supply Co A Division Of General Electric Company	Pacific Bell
1985	GENERAL ELECTRIC SUPPLIES CO	Pacific Bell
1974	General Electric Supply Co	R. L. Polk Co.
1970	General Electric Supply Co	R. L. Polk & Co.
1960	Day Brlte Lighting Inc Western	R. L. Polk Co.
	Div equip mrnfrs ax	R. L. Polk Co.

540 MARTIN AVE

Year	Uses	Source
2017	SOUTH BAY SHOWERS	Cole Information Services
2014	SOUTH BAY SHOWERS	Cole Information Services
2009	SOUTH BAY SHOWERS INC	Cole Information Services
2004	ESTECOM USA	Cole Information Services

550 MARTIN AVE

Year	Uses	Source
2001	LEITERRulh	Haines Company, Inc.

565 MARTIN AVE

Year	Uses	Source
1975	HARTMAN EE LB	Pacific Telephone

FINDINGS

568 MARTIN AVE

Year	Uses	Source
2001	COLORSTOP	Haines Company, Inc.

570 MARTIN AVE

Year	Uses	Source
2014	ALL ARCHITECTURAL STONE CORPORATION	Cole Information Services
2009	ALL ARCHITECTURAL STONE CORP	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
	ROYAL WHOLESALE ELECTRIC	Cole Information Services
2001	ELECTRIC	Haines Company, Inc.
	ROYALWHOLESALE	Haines Company, Inc.
1996	ROYAL WHOLESALE ELECTRIC	Pacific Bell
1994	D D ASSOC	Cole Information Services
1991	D D ASSOCIATES	PACIFIC BELL WHITE PAGES
	D D Associates	PACIFIC BELL WHITE PAGES
1986	D D Associates	Pacific Bell
	D D ASSOCIATES	Pacific Bell
1985	TRI-L ENTERPRISE MACHINERY MOVING & SPECIALIZED HAULING INC	Pacific Bell
	A B & G HARBOR TRUCKING SERVICE INC	Pacific Bell
1980	Pepsi Cola Bottling Co	Pacific Telephone
1975	SWEETS MOVING & STORAGE	Pacific Telephone
	BOND VAN & STORAGE CO	Pacific Telephone
1974	Crestwood Kitchens Inc cabt mkrs	R. L. Polk Co.
1970	Vacant	R. L. Polk & Co.
1963	United States Plywood Corp	Pacific Telephone
1960	US Plywood Corp ch	R. L. Polk Co.

590 MARTIN AVE

Year	Uses	Source
2017	VENICE TILE & MARBLE	Cole Information Services
	A1 CABINETRY	Cole Information Services
2014	A1 CABINETRY	Cole Information Services
	CABINETS & QUARTZ	Cole Information Services
2009	DALTILE	Cole Information Services
	DAL TILE & STONES	Cole Information Services
2004	ALPHA GRANITE & MARBLE INC	Cole Information Services

FINDINGS

620 MARTIN AVE

Year	Uses	Source
2001	GOBLE Ernest	Haines Company, Inc.
	ENTRPS	Haines Company, Inc.
	ALBUOUERSIUE	Haines Company, Inc.

630 MARTIN AVE

Year	Uses	Source
2017	U S FOAM	Cole Information Services
	ALLIANCE ROOFING INC	Cole Information Services
2009	UNITED BUILDING FORMS	Cole Information Services
	HODGES CHEMICALS CO	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
	UNITED BUILDING FORMS INC	Cole Information Services
	US FOAM INC	Cole Information Services
	KING PACIFIC	Cole Information Services
1999	U S FOAM	Cole Information Services
	UNITED BUILDING FORMS INCORPORATED	Cole Information Services
1996	US FOAM	Pacific Bell
	UNITED BUILDING FORMS INC	Pacific Bell
1994	U S FOAM INC	Cole Information Services
	WORLD CARE INC	Cole Information Services
1986	Sanspray Corporation	Pacific Bell
1985	SANSPRAY CORPORATION	Pacific Bell
1975	SANSPRAY INDUSTRIES INC	Pacific Telephone
1974	Sanspray Industries Inc pre finished plywood mfr	R. L. Polk Co.
1970	Sanspray Industries Inc pre finished plywood mfr	R. L. Polk & Co.
1963	Tri State Plywood Co	Pacific Telephone
1960	Tri State Plywood Co mnfrs ch	R. L. Polk Co.
1957	T State Plywood Co	R. L. Polk Co.
1955	Tri State Plywood Co A CH	R. L. Polk Co.

631 MARTIN AVE

Year	Uses	Source
2017	SERVICE KING COLLISION REPAIR SANTA	Cole Information Services
	AAA LOCKSMITH	Cole Information Services
	ENTERPRISE	Cole Information Services

FINDINGS

Year	Uses	Source
2017	CAR WEST AUTO BODY	Cole Information Services
2014	ENTERPRISE RENTACAR	Cole Information Services
	CAR WEST AUTO BODY	Cole Information Services
2009	STRIPPING BY S C D BODY SHOP	Cole Information Services
	CAR WEST AUTO BODY INC	Cole Information Services
2004	SCD BODY SHOP	Cole Information Services
	STRIPPING BY SCD BODY SHOP	Cole Information Services
	AA WILLIAMS AUTO GLASS	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2001	XXXX	Haines Company, Inc.
1999	AUTO PARTS CLUB	Cole Information Services
1994	AUTO PARTS CLUB	Cole Information Services

650 MARTIN AVE

Year	Uses	Source
2017	RECOLOGY	Cole Information Services
	LOS ALTOS GARBAGE CO	Cole Information Services
	SANTA CLARA CAR SHIPPING SERVICE	Cole Information Services
	NORCAL WASTE SYSTEMS OF SAN JOSE	Cole Information Services
2014	RECOLOGY SOUTH BAY	Cole Information Services
	RECOLOGY SILICON VALLEY	Cole Information Services
	SANTA CLARA CAR SHIPPING SERVICE	Cole Information Services
	LOS ALTOS GARBAGE CO	Cole Information Services
	NORCAL WASTE SYSTEMS OF SAN JOSE	Cole Information Services
2009	GARBAGE & RECYCLING COLLECTION CIT	Cole Information Services
	GARBAGE SERVICE	Cole Information Services
	STEVENS CREEK DISPOSAL RECYCLE	Cole Information Services
	LOST ALTUS GARBAGE CO	Cole Information Services
2004	STEVENS CREEK DSPSL & RCYCLNG	Cole Information Services
	FOOTHILL DISPOSAL CO	Cole Information Services
	SONYAS CATERING	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
2001	LOS ALTOS GARBAGE	Haines Company, Inc.
	CO STEVENSCREEK	Haines Company, Inc.
	DISPOSAL&RCYCLNG	Haines Company, Inc.
1999	FOOTHILL DISPOSAL COMPANY	Cole Information Services

FINDINGS

Year	Uses	Source
1999	GARBAGE SERVICE	Cole Information Services
	LOS ALTOS GARBAGE COMPANY	Cole Information Services
	LOS ALTOS GARBAGE COMPANY	Cole Information Services
	STEVENS CREEK DISPOSAL & RECYCLING	Cole Information Services
	ALMADEN DISPOSAL & RECYCLING	Cole Information Services
1994	BIO SERVICES WOOD RECOVERY INC	Cole Information Services
	GLEN BROUDY	Cole Information Services
1980	Edwards Wood Products Inc	Pacific Telephone

751 MARTIN AVE

Year	Uses	Source
2001	XXXX	Haines Company, Inc.
1980	GEORGIA PACIFIC CORPORATION Building Products Sales & Distribution	Pacific Telephone
	Terminal s	Pacific Telephone
1975	PAPER TRANSPORT CO	Pacific Telephone
	GEORGIA-PACIFIC CORPORATION BUILDING PRODUCTS-SALES & DISTRIBUTION	Pacific Telephone
1970	Vacant	R. L. Polk & Co.

761 MARTIN AVE

Year	Uses	Source
1974	Paper Transport Co trucking	R. L. Polk Co.

801 MARTIN AVE

Year	Uses	Source
2017	CLUB ONE	Cole Information Services
2014	CLUB ONE	Cole Information Services
2009	MORE THERAPY CLINIC	Cole Information Services
	CLUB ONE AT SILICON VALLEY	Cole Information Services
	CLUB ONE INC	Cole Information Services
	MORE CHIROPRACTIC & REHABILITATION	Cole Information Services
	MISSION ORTHOPEDIC RHB EXRCS	Cole Information Services
2004	JAMES S LINDSEY	Cole Information Services
	JAMES LINDSEY	Cole Information Services
	CLUB ONE AT SILICON VALLEY	Cole Information Services
2001	CLUB ONE 408 26 E LINDSEYJAMESS	Haines Company, Inc.
	LINDSEY JAMES S	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2001	MITCHELLW	Haines Company, Inc.
1999	SPINE & SPORT CLINIC	Cole Information Services
	SILICON VALLEY ATHLETIC CLUB AND WELLNESS CENTER	Cole Information Services
	MEYERS DAVID M DC CCSP	Cole Information Services
	A SPINE & SPORT CLINIC	Cole Information Services
	LINDSEY JAMES S	Cole Information Services
	SILICON VALLEY ATHLETIC CLUB	Cole Information Services
1996	SPINE & SPORT CLINIC THE	Pacific Bell
	SILICON VALLEY ATHLETIC CLUB	Pacific Bell
	MEYERS DAVID M DC CCSP	Pacific Bell
	LINDSEY JAMES S	Pacific Bell

821 MARTIN AVE

Year	Uses	Source
2017	ARC DOCUMENT SOLUTIONS	Cole Information Services
	AMERICAN REPROGRAPHICS COMPANY INC	Cole Information Services
	RIOT CREATIVE IMAGING	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
2001	RPR 9 MF 6 SERVICES	Haines Company, Inc.
	NEW CONCEPTS	Haines Company, Inc.
1999	NEW CONCEPTS REPAIR & MANUFACTURING SERVICES	Cole Information Services
1996	& MANUFACTURING SERVICES	Pacific Bell
	NEW CONCEPTS REPAIR	Pacific Bell

MARTIN CIR

640 MARTIN CIR

Year	Uses	Source
1982	Menta Leo	Pacific Telephone

MARTIN DR

597 MARTIN DR

Year	Uses	Source
1963	Calicotte Geo	Pacific Telephone

FINDINGS

MARTIN ST

573 MARTIN ST

Year	Uses	Source
1925	Griffel Wm	R. L. Polk & Co.
1922	Griffel Wm	R. L. Polk Co.

587 MARTIN ST

Year	Uses	Source
1925	Renardo John	R. L. Polk & Co.
1922	Johnson F F	R. L. Polk Co.

601 MARTIN ST

Year	Uses	Source
1922	Vacant	R. L. Polk Co.

605 MARTIN ST

Year	Uses	Source
1925	Vacant	R. L. Polk & Co.

623 MARTIN ST

Year	Uses	Source
1925	Johnson J O	R. L. Polk & Co.
1922	Johnson J O	R. L. Polk Co.

635 MARTIN ST

Year	Uses	Source
1925	Candello Lawrence	R. L. Polk & Co.
1922	Candello Lawrence	R. L. Polk Co.

649 MARTIN ST

Year	Uses	Source
1925	Fumagalli F D	R. L. Polk & Co.
	Ibel Mrs M E	R. L. Polk & Co.
1922	Kendall L G	R. L. Polk Co.

731 MARTIN ST

Year	Uses	Source
1925	Vandermuelen Moses	R. L. Polk & Co.
1922	Vandermuelen Moses	R. L. Polk Co.

FINDINGS

MORTON AVE

598 MORTON AVE

Year	*Uses*	*Source*
1957	AINIIAN FJ	Pacific Telephone

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
530 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1994, 1982, 1980, 1978, 1975, 1968, 1966, 1965, 1964, 1963, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
530 MARTIN AVE	2017, 2014, 2006, 2004, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
540 MARTIN AVE	2006, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
550 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
565 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
568 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
570 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1994, 1982, 1978, 1968, 1966, 1965, 1964, 1962, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
570 MARTIN AVE	2017, 2006, 2001, 2000, 1999, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
573 MARTIN ST	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
587 MARTIN ST	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
590 MARTIN AVE	2006, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
597 MARTIN DR	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
598 MORTON AVE	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
601 MARTIN ST	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925
605 MARTIN ST	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
620 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
623 MARTIN ST	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
630 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1994, 1991, 1982, 1980, 1978, 1968, 1966, 1965, 1964, 1962, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
630 MARTIN AVE	2014, 2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
631 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
631 MARTIN AVE	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
635 MARTIN ST	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
640 MARTIN CIR	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
649 MARTIN ST	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
650 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
650 MARTIN AVE	2006, 2001, 2000, 1996, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
731 MARTIN ST	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926
751 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1978, 1974, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
761 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2001, 2000, 1999, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
801 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
801 MARTIN AVE	2006, 2001, 2000, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922
821 MARTIN AVE	2014, 2009, 2006, 2001, 2000, 1996, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
821 MARTIN AVE	2017, 2014, 2009, 2006, 2004, 2000, 1999, 1994, 1991, 1986, 1985, 1982, 1980, 1978, 1975, 1974, 1970, 1968, 1966, 1965, 1964, 1963, 1962, 1960, 1957, 1955, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
651 MARTIN AVE	2006, 2000, 1991, 1986, 1985, 1982, 1980, 1978, 1968, 1966, 1965, 1964, 1962, 1950, 1946, 1945, 1942, 1940, 1936, 1935, 1931, 1930, 1926, 1925, 1922

651 MARTIN AVENUE
651 MARTIN AVE
SANTA CLARA, CA 95050

Inquiry Number: 6569892.7S
JULY 9, 2021

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

651 MARTIN AVENUE
651 MARTIN AVE
SANTA CLARA, CA 95050

RESEARCH SOURCE

Source 1:	SANTA CLARA COUNTY RECORDER'S OFFICE
Source 2:	CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Source 3:	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	GRANT DEED
Title is vested in:	GAHRAHMAT FAMILY LIMITED PARTNERSHIP II LP., A CALIFORNIA LIMITED PARTNERSHIP
Title received from:	MAHMOUD M. GAHRAHMAT AND MARIA B. GAHRAHMAT, TRUSTEES UNDER REVOCABLE TRUST AGREEMENT DATED JANUARY 7, 1997 AND GAHRAHMAT PROPERTIES II, LLC
Date Executed:	01/23/2002
Date Recorded:	06/12/2002
Book:	NA
Page:	NA
Volume:	NA
Instrument#:	16311081
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	LAURELWOOD FARM MAP E2 833
Current Owner:	GAHRAHMAT FAMILY LIMITED PARTNERSHIP II LP., A CALIFORNIA LIMITED PARTNERSHIP
Property Identifiers:	224-04-071
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

Comments: NONE IDENTIFIED.

EDR Environmental Lien and AUL Search

MISCELLANEOUS

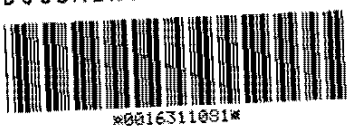
Comments: NONE IDENTIFIED.

EDR Environmental Lien and AUL Search

DEED EXHIBIT

Recording Requested By:
Clarence J. Ferrari, Jr.
Ferrari Ottoboni LLP
333 W. Santa Clara St., Suite 700
San Jose, CA 95113

DOCUMENT: 16311081



Titles: 1 / Pages: 3
Fees.... 23.00
Taxes...
Copies..
AMT PAID 23.00

And When Recorded Mail To:
THE GAHRAHMAT FAMILY
LIMITED PARTNERSHIP II
3476 Edward Avenue
Santa Clara, CA 95054

BRENDA DAVIS
SANTA CLARA COUNTY RECORDER
Recorded at the request of
Recording Service

RDE # 009
6/12/2002
1:21 PM

GRANT DEED

The undersigned grantors declare no documentary transfer tax is due. Conveyance to a partnership wherein the grantors are all of the partners and hold the same proportionate share in the partnership that they held in the real property.

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, MAHMOUD M. GAHRAHMAT AND MARIA B. GAHRAHMAT, Trustees under Revocable Trust Agreement dated January 7, 1997 and GAHRAHMAT PROPERTIES II, LLC
hereby GRANT to THE GAHRAHMAT FAMILY LIMITED PARTNERSHIP II L.P., a California Limited Partnership
the following described real property in the City of Santa Clara, County of Santa Clara, State of California:

SEE EXHIBIT "A" ATTACHED HERETO

Commonly known as: 631-651 Martin Avenue, Santa Clara, California
APN: 224-04-071

Dated: 1-23-02

MAHMOUD M. GAHRAHMAT, TRUSTEE

Maria B Gahrahmat
MARIA B. GAHRAHMAT, TRUSTEE

GAHRAHMAT PROPERTIES II, LLC

MAHMOUD M. GAHRAHMAT, Trustee under Revocable Trust Agreement Dated 1/7/97, Member

Maria B. Gahrahmat
MARIA B. GAHRAHMAT, Trustees under Revocable Trust Agreement dated 1/7/97, Member

Mail Tax Statements as Directed Above
FERRARI:48093.1

STATE OF CALIFORNIA)
)
COUNTY OF SANTA CLARA)

On January 23, 2002, before me, Margaret M. Campbell, a notary public, personally

appeared MAHMOUD M. GAHRAHMAT,

_____ personally known to me - **OR** -

_X_ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed this instrument.

MARGARET M. CAMPBELL
Commission # 1210006
Notary Public - California
Santa Clara County
My Comm. Expires Feb 6, 2003

WITNESS my hand and official seal.

SIGNATURE OF THE NOTARY

STATE OF CALIFORNIA)
)
COUNTY OF SANTA CLARA)

On January 28, 2002, before me, Margaret M. Campbell, a notary public, personally

appeared MARIE B. GAHRAHMAT,

_____ personally known to me - **OR** -

_X_ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed this instrument.

MARGARET M. CAMPBELL
Commission # 1210006
Notary Public - California
Santa Clara County
My Comm. Expires Feb 6, 2003

WITNESS my hand and official seal.

SIGNATURE OF THE NOTARY

LEGAL DESCRIPTION

REAL PROPERTY in the City of Santa Clara, County of Santa Clara, State of California, described as follows:

Portions of Lots 6, 7, 8 and 9, in block 2, as shown on that certain Map entitled "Laurelwood Farm Subdivision," which Map was filed for record in the office of the Recorder of the County of Santa Clara, State of California on March 13, 1924, in Book S of Maps page(s) 7 and 8, and more particularly described as follows:

Commencing at an iron pipe on the Northerly boundary line of Martin Avenue, as said Avenue is designated and described by Resolution No. 82 of the Board of Trustees of the City of Santa Clara, dated March 4, 1946, recorded March 6, 1946 in Book 1319 of Official Records, page 460, Santa Clara County Records, distant thereon North 83° 18 1/2' East 866.23 feet from the intersection thereof with the Easterly boundary lie of that certain 0.055 acre tract of land described in the Deed from D'Arrigo Bros. to the County of Santa Clara, dated May 5, 1938, recorded May 18, 1938 in Book 875 of Official Records, page 725, Santa Clara County Records; running thence North 0° 22' East 800.07 feet to the Northerly line of Lot 9, in block 2, as said Lot and Block are shown upon the Map above referred to; running thence along said last named line North 83° 19' East 12.21 feet; thence leaving said last named line and running on a curve to 382.16 feet radius deflecting to the right through a central angle of 85° 26' a distance of 569.84 feet measured along the arc of a curve; running thence North 83° 19' East 20.14 feet to the Westerly boundary line of Southern Pacific Railroad Company's right-of-way as shown upon the Map above referred to; running thence South 0° 1 1/2' West along said last named line 445.30 feet to the said Northerly line of Martin Avenue; running thence along said last named line South 83° 18 1/2' West 459.68 feet to the point of commencement.

Excepting therefrom that certain parcel conveyed to the City of Santa Clara by Deed recorded March 15, 1966 in Book 7312, page 142 of Official Records, being more particularly described as follows: the Southerly 12 feet.

APN: 224-04-071
ARB: 224-04-071

****

651 Martin Avenue

651 MARTIN AVE

SANTA CLARA, CA 95050

Inquiry Number: 6569892.3

July 09, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/09/21

Site Name:	Client Name:
651 Martin Avenue	TRC
651 MARTIN AVE	505 Sansome Street Suite 1600
SANTA CLARA, CA 95050	San Francisco, CA 94111
EDR Inquiry # 6569892.3	Contact: Glenn Young

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Certified Sanborn Results:

Certification # 6E43-4490-B028

PO # 444608.0

Project 651 Martin Avenue

Maps Provided:

1966

1961

Sanborn® Library search results

Certification #: 6E43-4490-B028

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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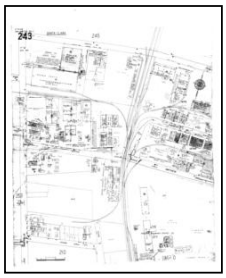
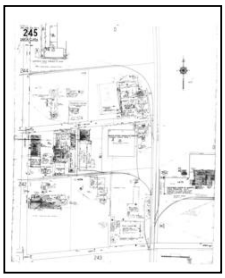
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1966 Source Sheets

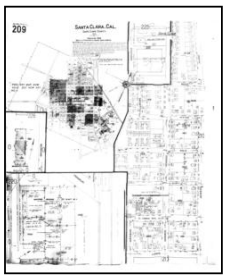


Volume 3, Sheet 243
1966

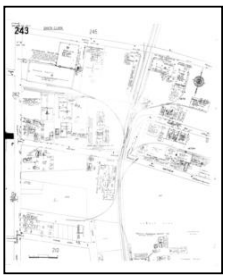


Volume 3, Sheet 245
1966

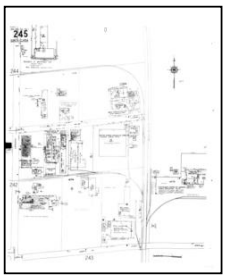
1961 Source Sheets



Volume 3, Sheet 209
1961



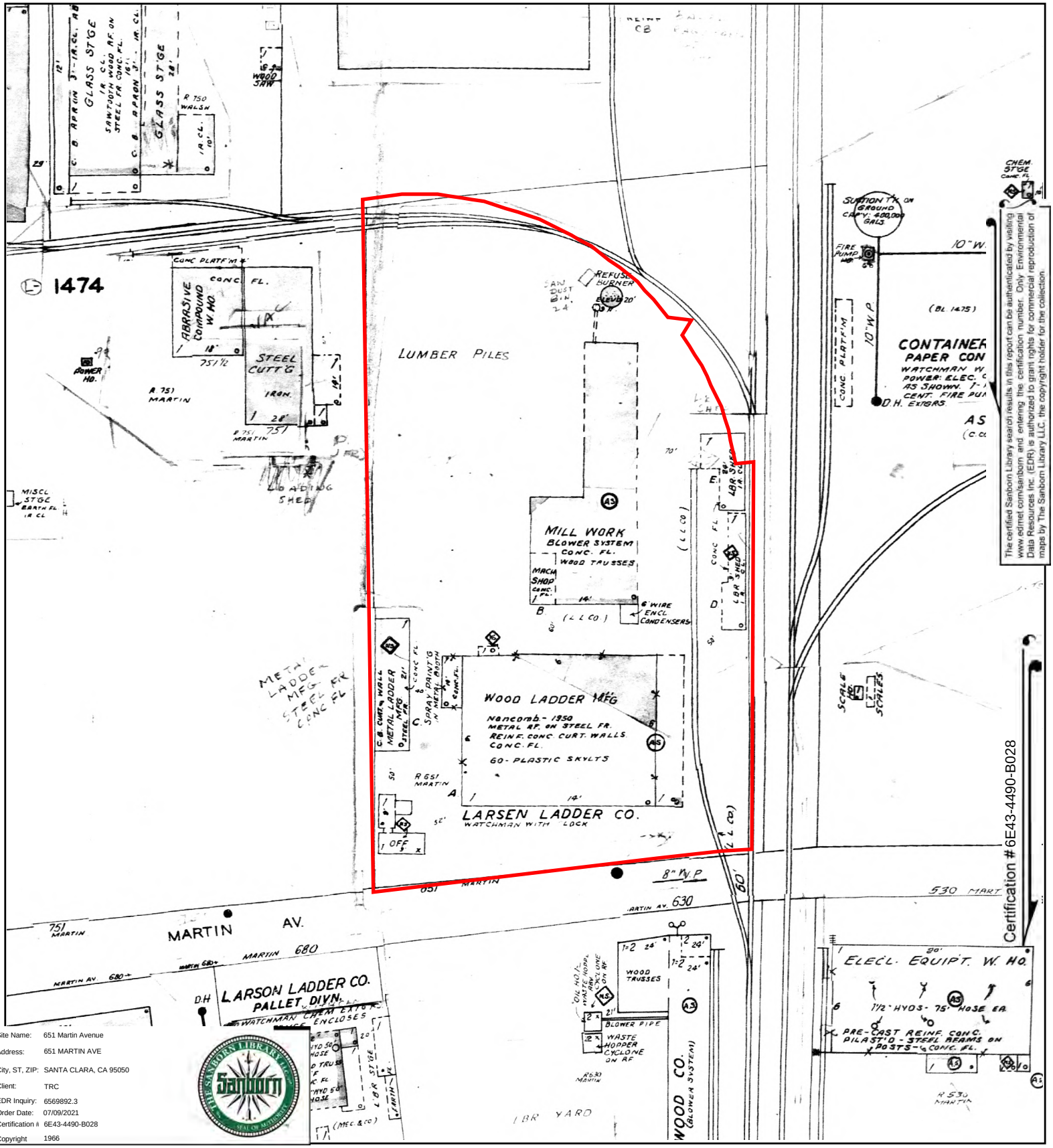
Volume 3, Sheet 243
1961



Volume 3, Sheet 245
1961

Certified Sanborn® Map

1966



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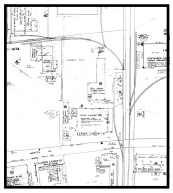
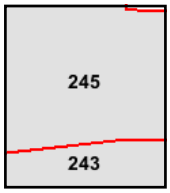
Site Name:	651 Martin Avenue
Address:	651 MARTIN AVE
City, ST, ZIP:	SANTA CLARA, CA 95050
Client:	TRC
EDR Inquiry:	6569892.3
Order Date:	07/09/2021
Certification #	6E43-4490-B028
Copyright	1966

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



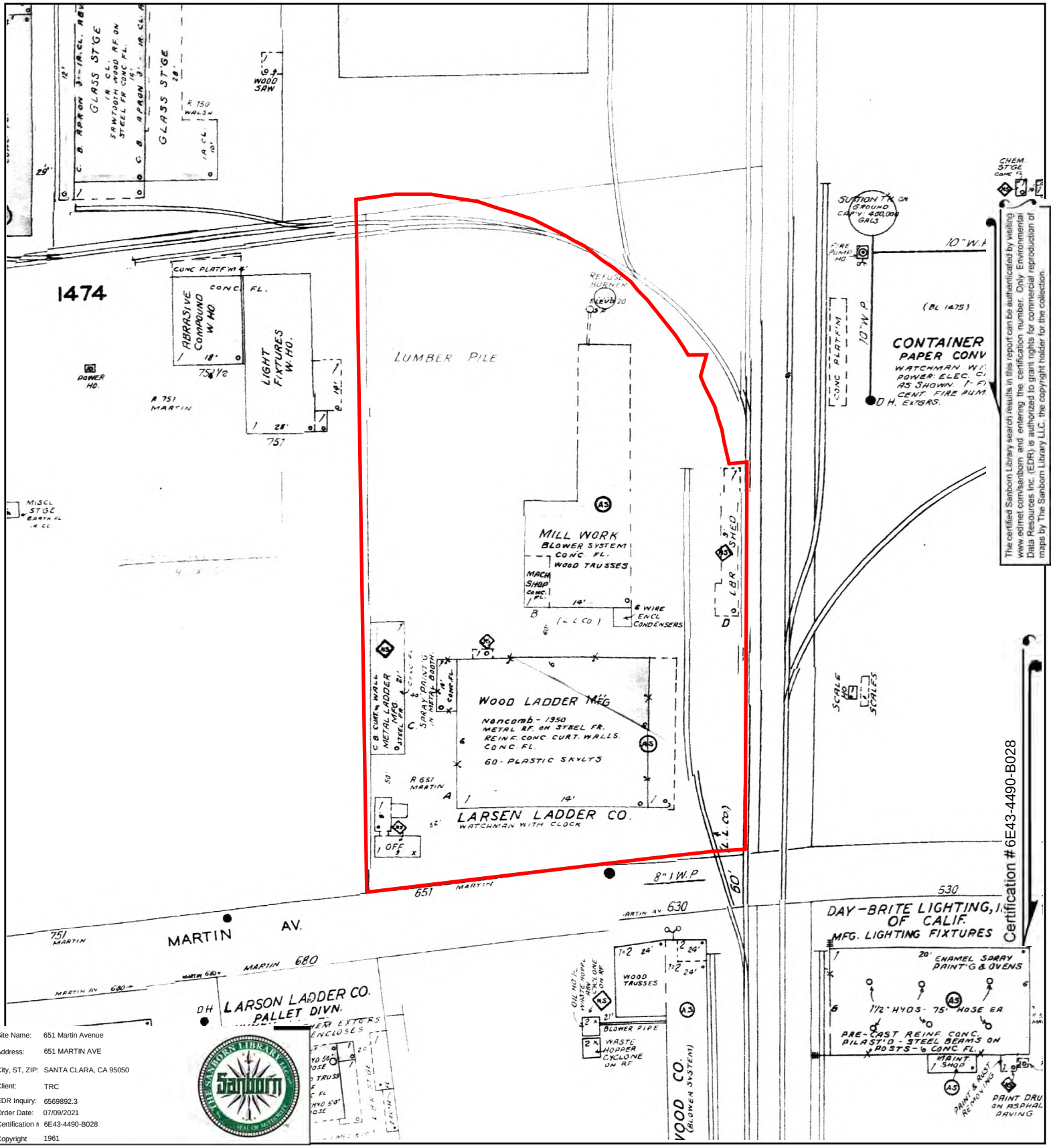


Volume 3, Sheet 245
Volume 3, Sheet 243

N

Certified Sanborn® Map

1961



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Certification # 6E43-4490-B028

Site Name:	651 Martin Avenue
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EDR Inquiry:	6569892.3
Order Date:	07/09/2021
Certification #	6E43-4490-B028
Copyright	1961

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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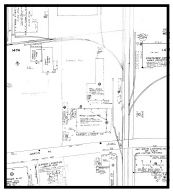

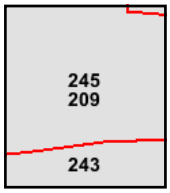

Volume 3, Sheet 245
Volume 3, Sheet 243
Volume 3, Sheet 209

N

651 Martin Avenue
651 MARTIN AVE
SANTA CLARA, CA 95050

Inquiry Number: 6569892.6
July 09, 2021

The EDR Property Tax Map Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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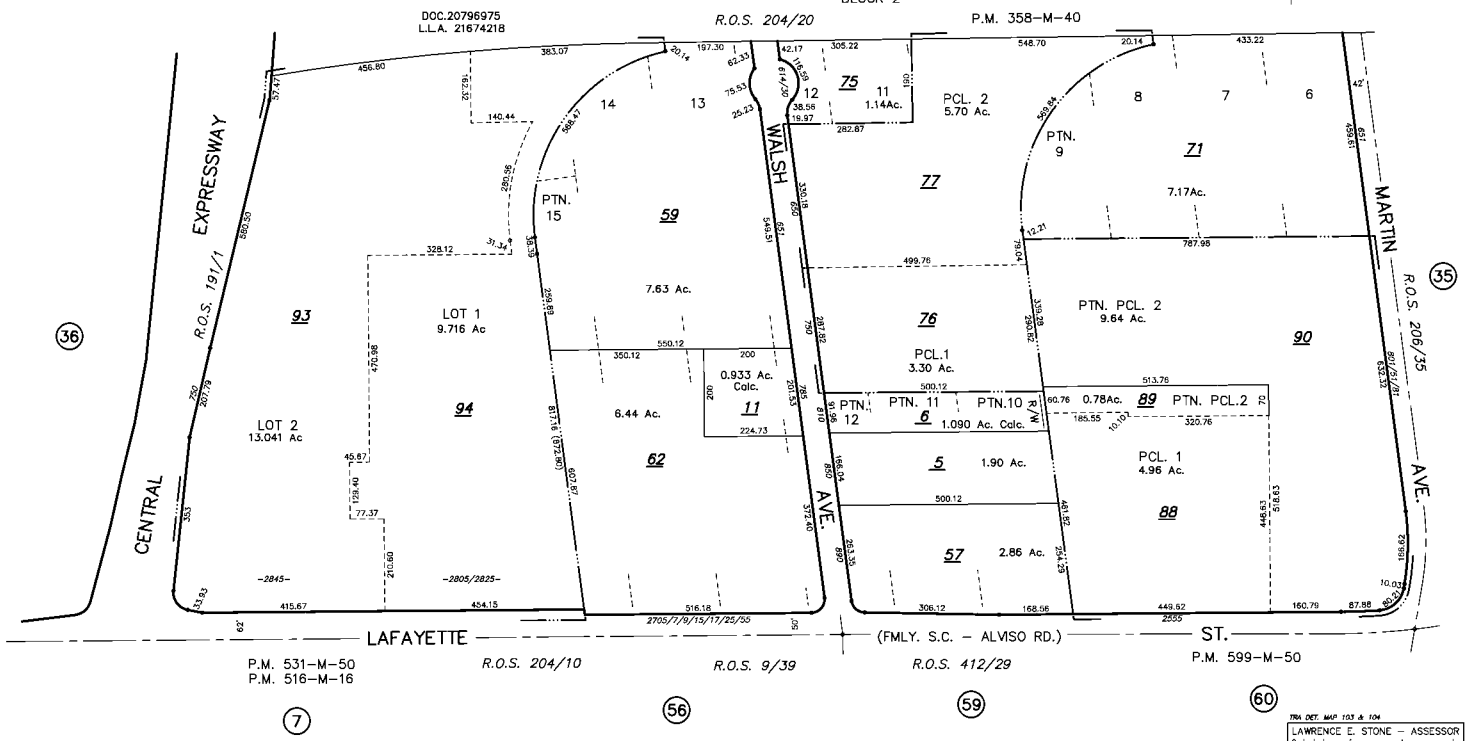
OFFICE OF COUNTY ASSESSOR — SANTA CLARA COUNTY, CALIFORNIA

230/3

BOOK	PAGE
224	4

LAUREL WOOD FARMS SUBDIVISION
S-M-7
BLOCK 2

1" = 200'



TRA DET. MAP 103 & 104

LAWRENCE E. STONE — ASSESSOR
Cadastral map for assessment purposes only.
Compiled under R. & T. Code, Sec. 327.
Effective Roll Year 2020-2021

651 Martin Avenue

651 MARTIN AVE

SANTA CLARA, CA 95050

Inquiry Number: 6569892.4

July 09, 2021

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/09/21

Site Name:	Client Name:
651 Martin Avenue	TRC
651 MARTIN AVE	505 Sansome Street Suite 1600
SANTA CLARA, CA 95050	San Francisco, CA 94111
EDR Inquiry # 6569892.4	Contact: Glenn Young

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by TRC were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		***Coordinates:***	
P.O.#	444608.0	**Latitude:**	37.367525 37° 22' 3" North
Project:	651 Martin Avenue	**Longitude:**	-121.94644 -121° 56' 47" West
		UTM Zone:	Zone 10 North
		UTM X Meters:	593289.91
		UTM Y Meters:	4136164.98
		Elevation:	47.00' above sea level

Maps Provided:

2012	1889
1980	
1973	
1968	
1961	
1953	
1899	
1897	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

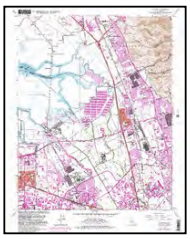
2012 Source Sheets

San Jose West
2012
7.5-minute, 24000

Milpitas
2012
7.5-minute, 24000

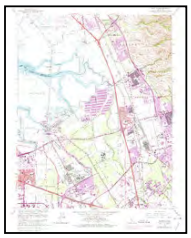
1980 Source Sheets

San Jose West
1980
7.5-minute, 24000
Aerial Photo Revised 1979



Milpitas
1980
7.5-minute, 24000
Aerial Photo Revised 1979

1973 Source Sheets



Milpitas
1973
7.5-minute, 24000
Aerial Photo Revised 1973

San Jose West
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1968 Source Sheets

Milpitas
1968
7.5-minute, 24000
Aerial Photo Revised 1968

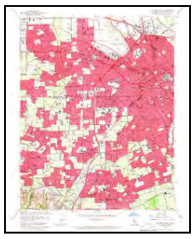
San Jose West
1968
7.5-minute, 24000
Aerial Photo Revised 1968

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

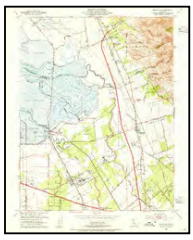
1961 Source Sheets

Milpitas
1961
7.5-minute, 24000
Aerial Photo Revised 1960



San Jose West
1961
7.5-minute, 24000
Aerial Photo Revised 1960

1953 Source Sheets



Milpitas
1953
7.5-minute, 24000
Aerial Photo Revised 1948

San Jose West
1953
7.5-minute, 24000
Aerial Photo Revised 1948

1899 Source Sheets

San Jose
1899
15-minute, 62500

1897 Source Sheets

San Jose
1897
15-minute, 62500

Topo Sheet Key

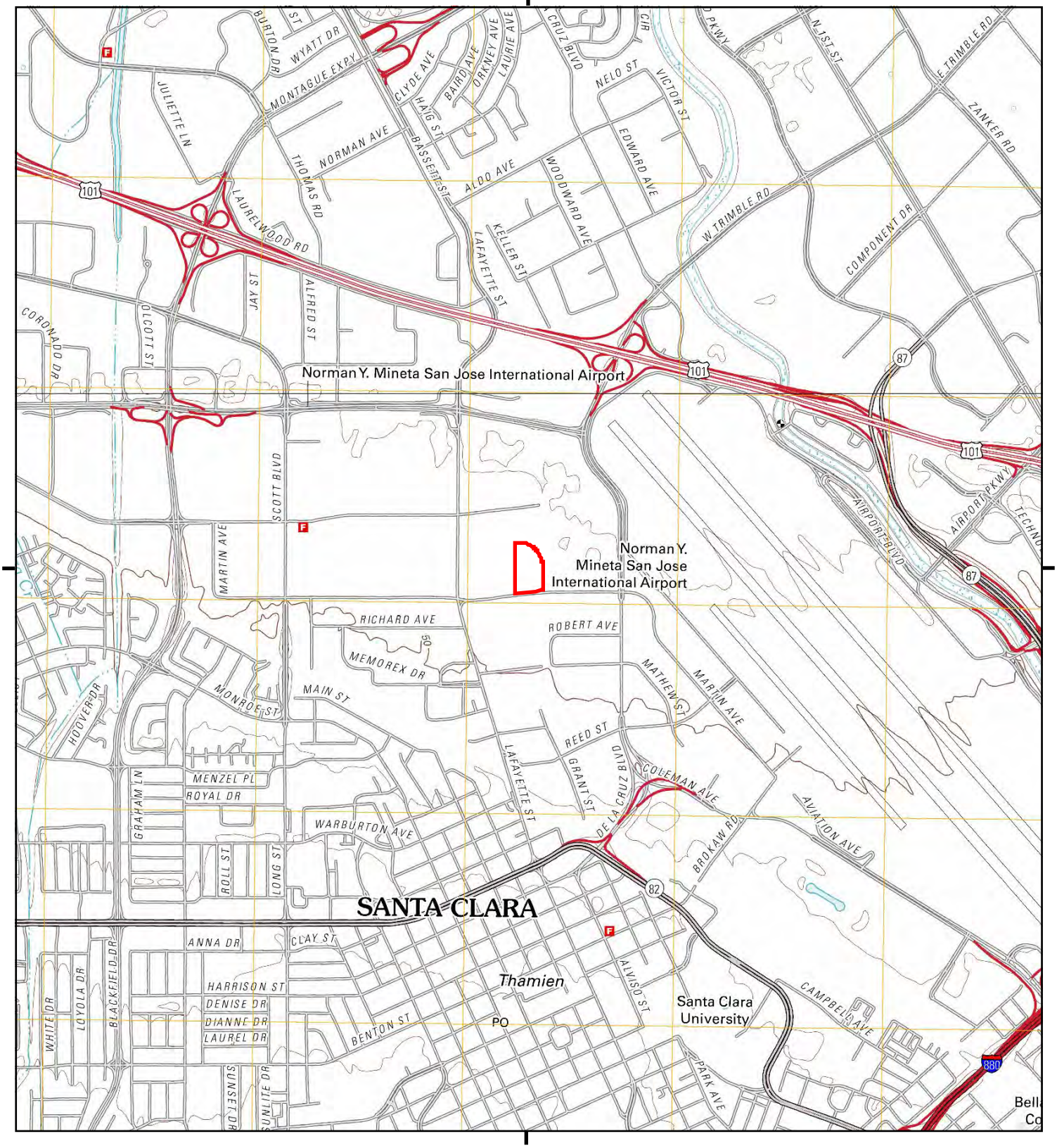
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1889 Source Sheets

San Jose
1889
15-minute, 62500

Historical Topo Map

2012



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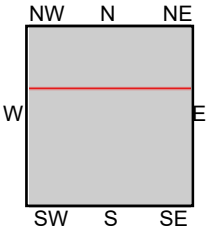


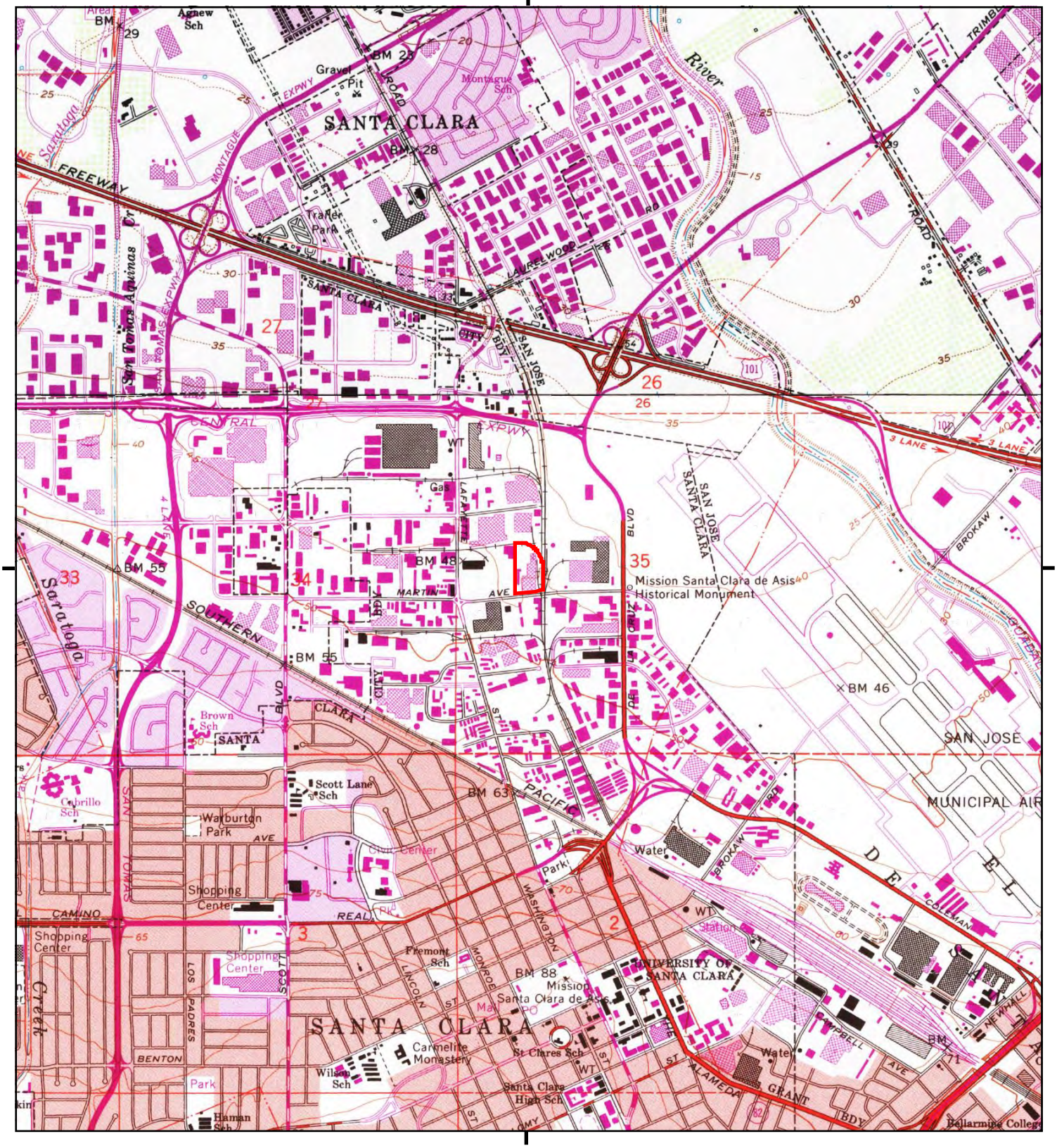
TP, San Jose West, 2012, 7.5-minute
N, Milpitas, 2012, 7.5-minute

SITE NAME: 651 Martin Avenue
ADDRESS: 651 MARTIN AVE
SANTA CLARA, CA 95050
CLIENT: TRC

N

Historical Topo Map

1980



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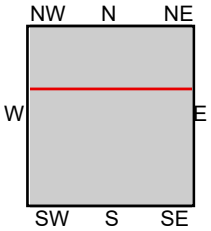


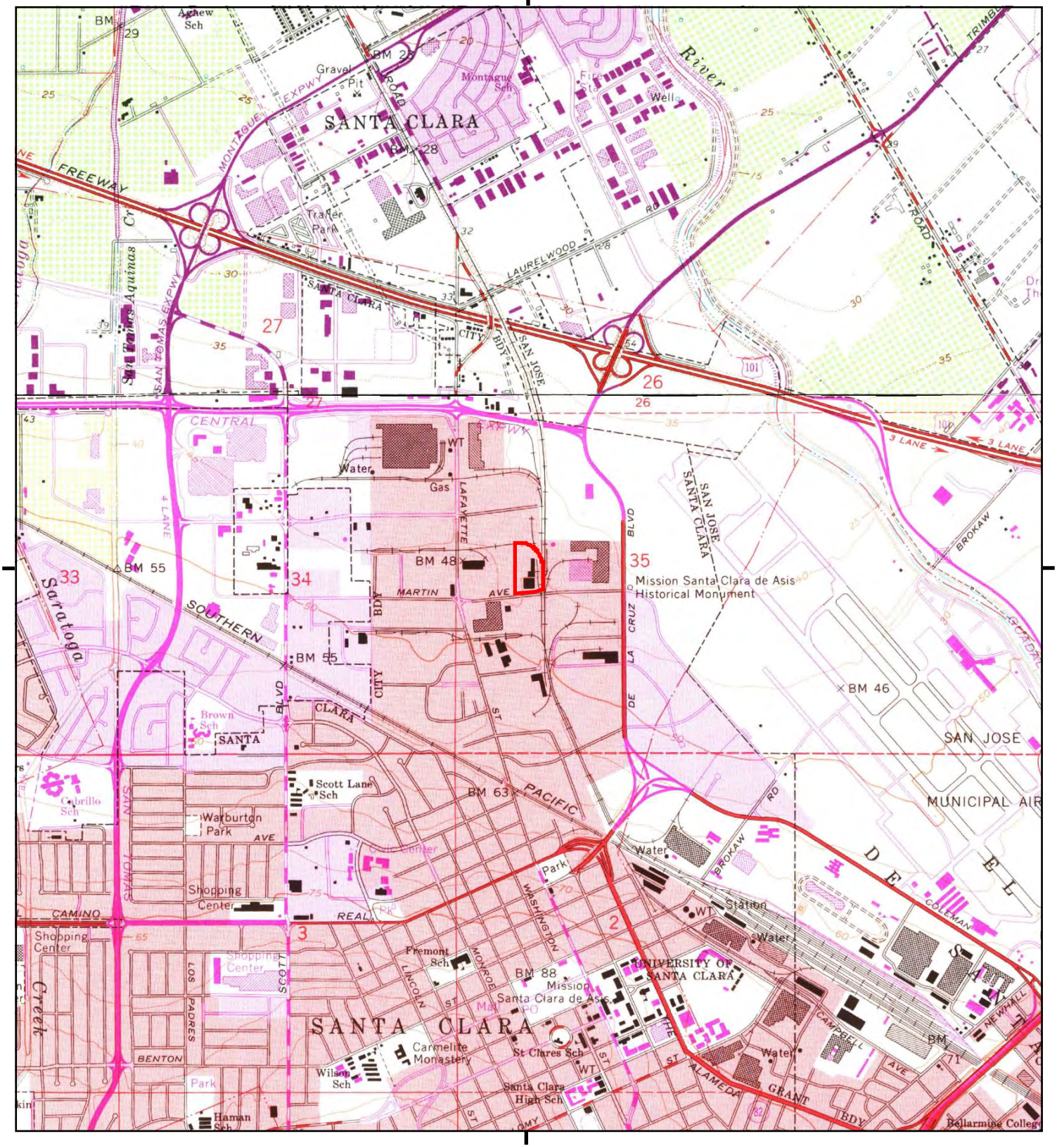
TP, San Jose West, 1980, 7.5-minute
N, Milpitas, 1980, 7.5-minute

SITE NAME: 651 Martin Avenue
ADDRESS: 651 MARTIN AVE
SANTA CLARA, CA 95050
CLIENT: TRC

N

Historical Topo Map

1973



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NW N NE
W E
SW S SE

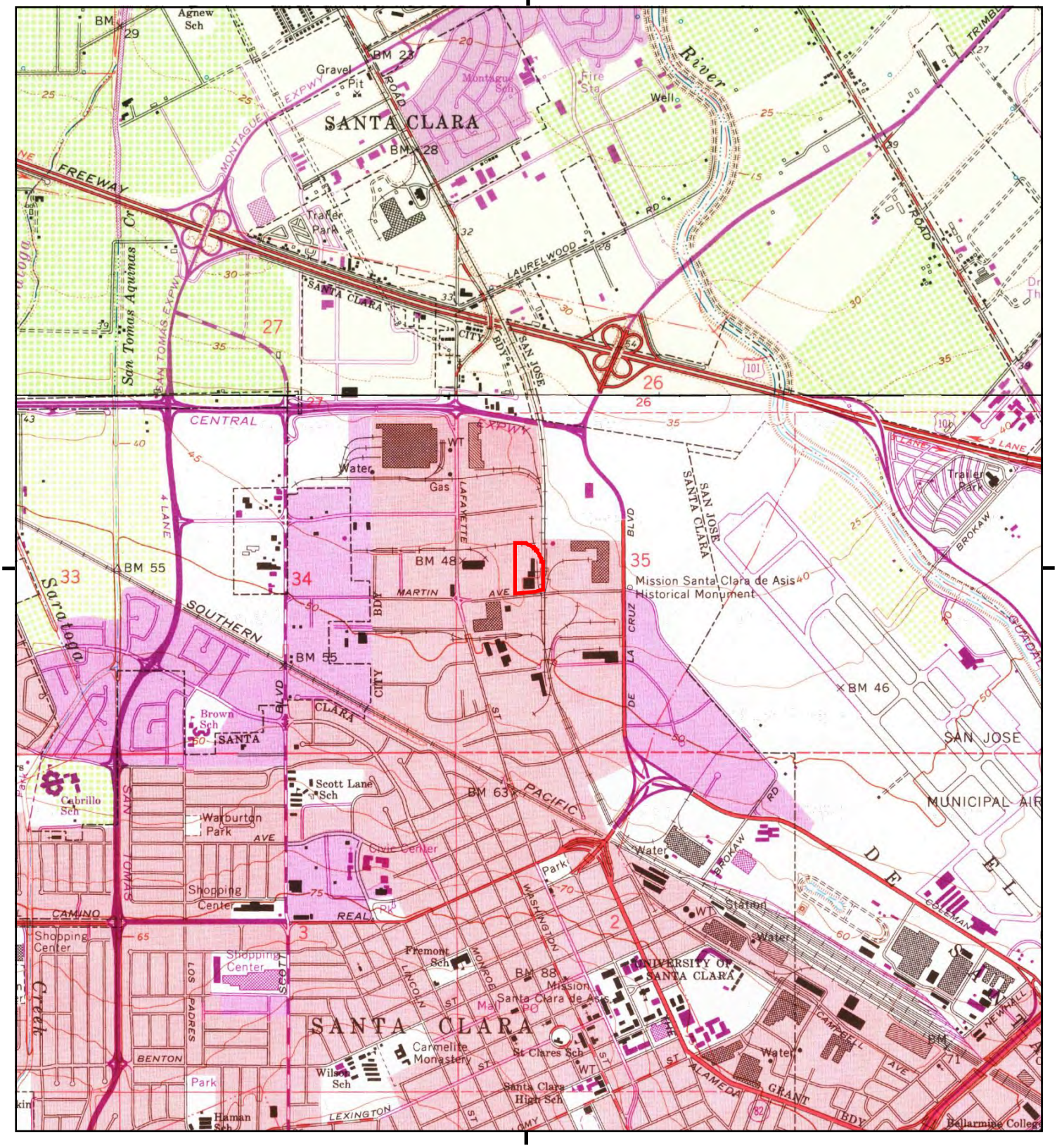
TP, San Jose West, 1973, 7.5-minute
N, Milpitas, 1973, 7.5-minute

SITE NAME: 651 Martin Avenue
ADDRESS: 651 MARTIN AVE
SANTA CLARA, CA 95050
CLIENT: TRC

N

Historical Topo Map

1968



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NW N NE
W E
SW S SE

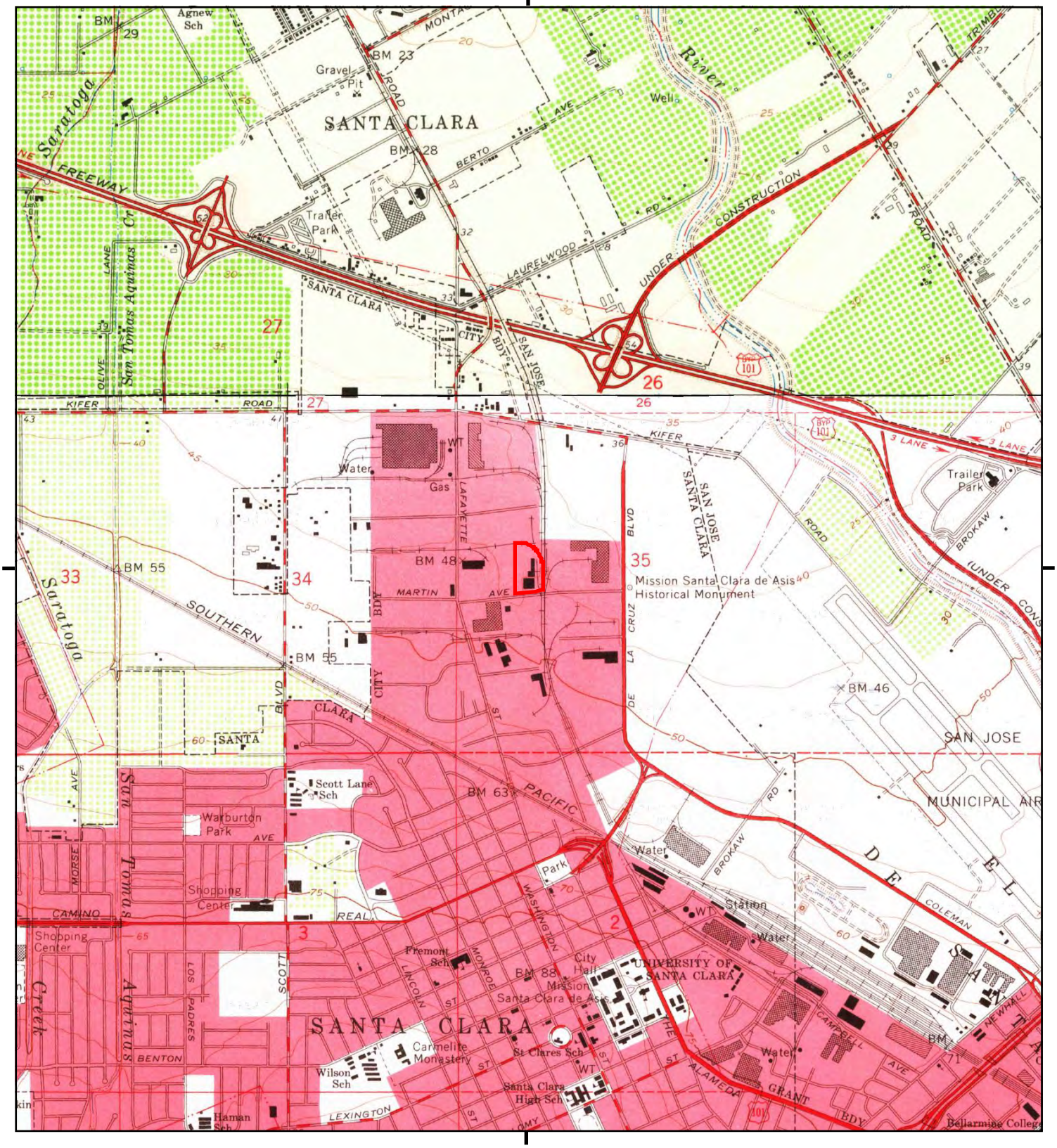
TP, San Jose West, 1968, 7.5-minute
N, Milpitas, 1968, 7.5-minute

SITE NAME: 651 Martin Avenue
ADDRESS: 651 MARTIN AVE
SANTA CLARA, CA 95050
CLIENT: TRC

N

Historical Topo Map

1961



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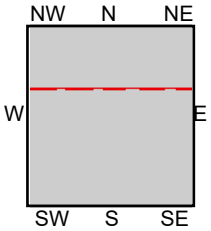


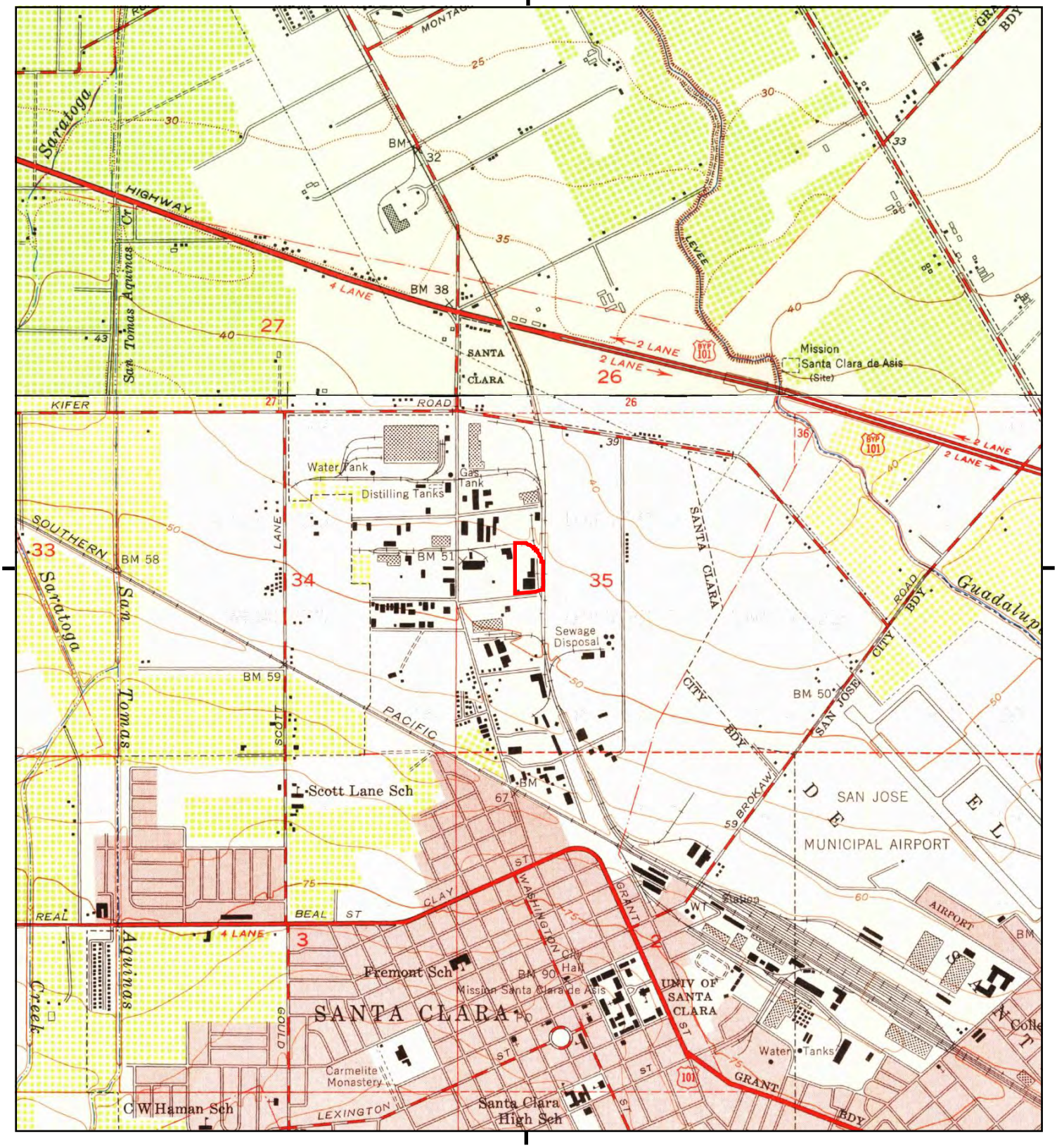
TP, San Jose West, 1961, 7.5-minute
N, Milpitas, 1961, 7.5-minute

SITE NAME: 651 Martin Avenue
ADDRESS: 651 MARTIN AVE
SANTA CLARA, CA 95050
CLIENT: TRC

N

Historical Topo Map

1953



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NW N NE
W E
SW S SE

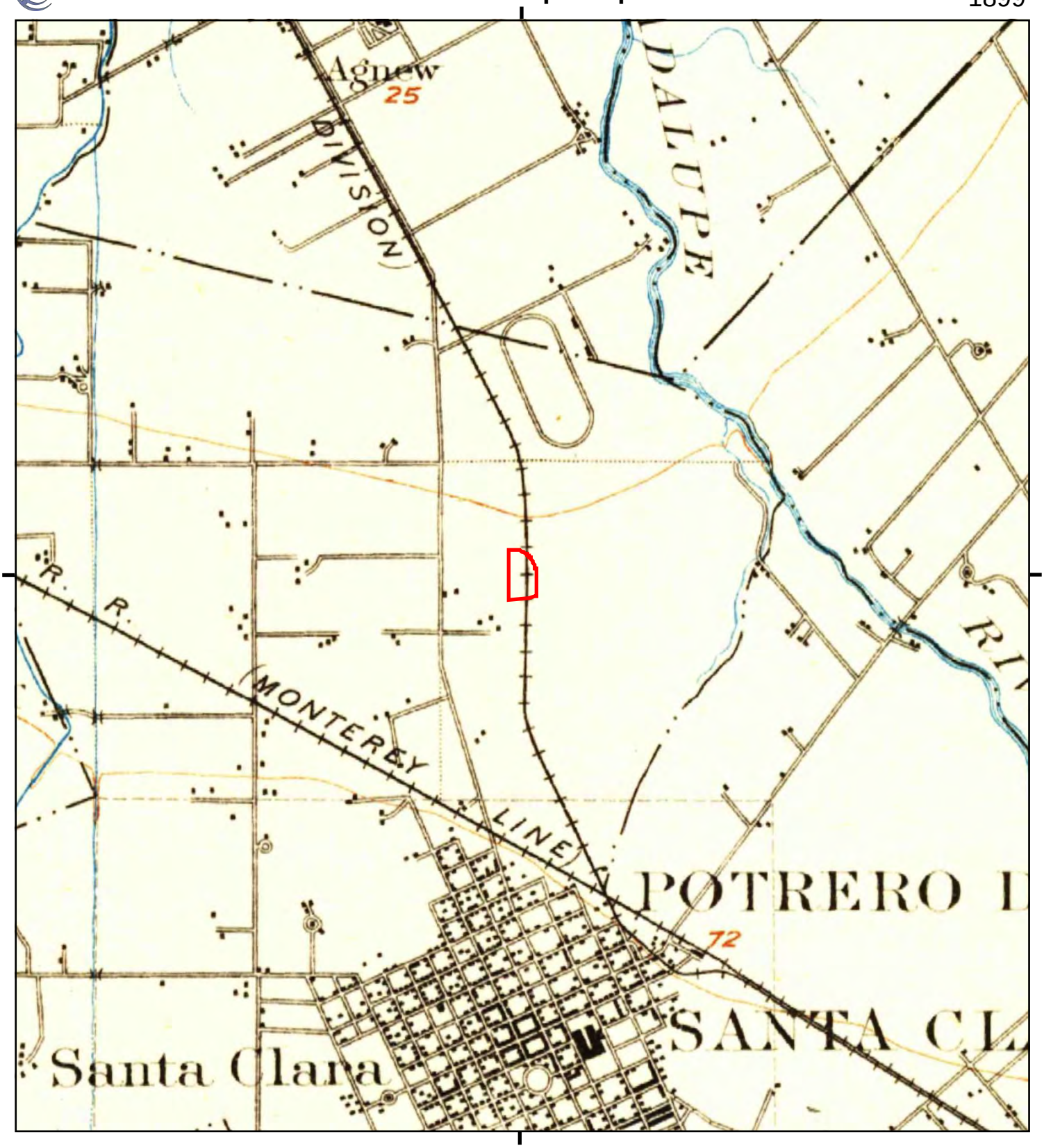
TP, San Jose West, 1953, 7.5-minute
N, Milpitas, 1953, 7.5-minute

SITE NAME: 651 Martin Avenue
ADDRESS: 651 MARTIN AVE
SANTA CLARA, CA 95050
CLIENT: TRC

N

Historical Topo Map

1899



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Jose, 1899, 15-minute

SITE NAME: 651 Martin Avenue
ADDRESS: 651 MARTIN AVE
SANTA CLARA, CA 95050
CLIENT: TRC

N

Historical Topo Map

1897

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

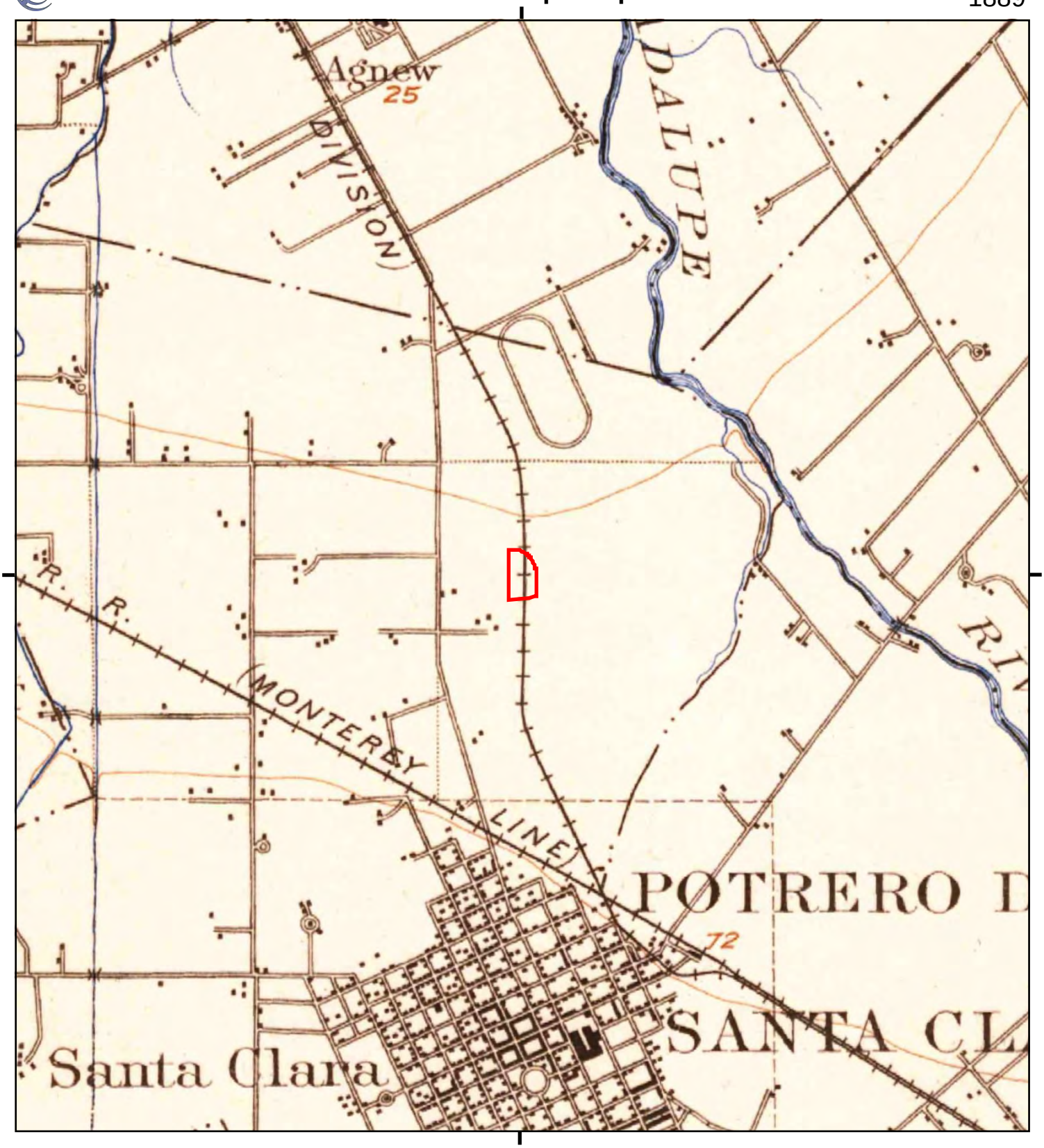
TP, San Jose, 1897, 15-minute

SITE NAME: 651 Martin Avenue
ADDRESS: 651 MARTIN AVE
SANTA CLARA, CA 95050
CLIENT: TRC

N

Historical Topo Map

1889



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Jose, 1889, 15-minute

SITE NAME: 651 Martin Avenue
ADDRESS: 651 MARTIN AVE
SANTA CLARA, CA 95050
CLIENT: TRC

N

Appendix D:
Photograph Log

Appendix D
Phase I ESA Photograph Log

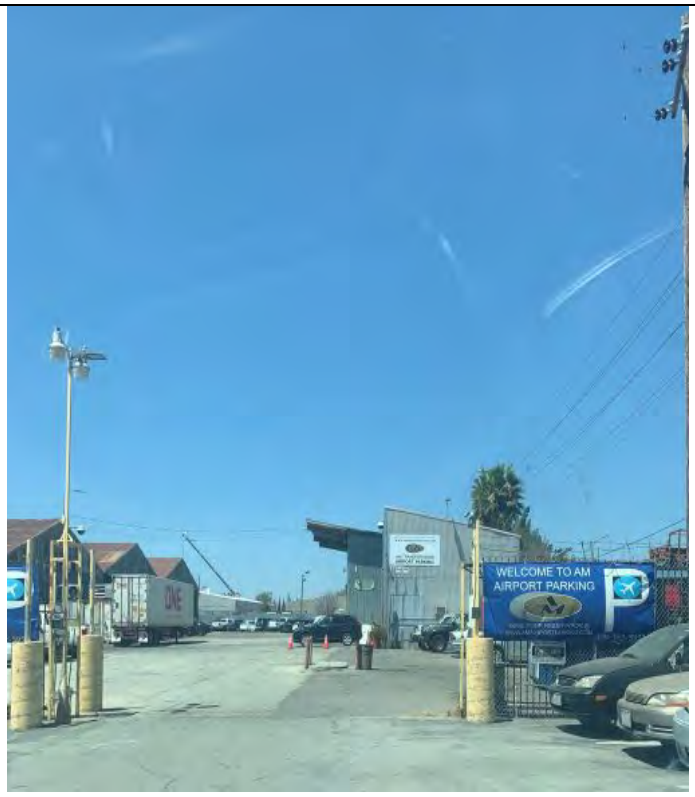

Photo 1: View of Site looking to the north.

Photo 2: View of Site looking to the west.

Photo 3: Railroad tracks east of the Site.

Photo 4: Commercial Property north of Site.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
399242	Gary Lieberman July 21, 2021	1 of 3	Vantage Data Centers	651 Martin Drive Santa Clara, California	TRC

Appendix D
Phase I ESA Photograph Log

Photo 5: Commercial property south of the Site.

Photo 6: Commercial property southeast of the Site.

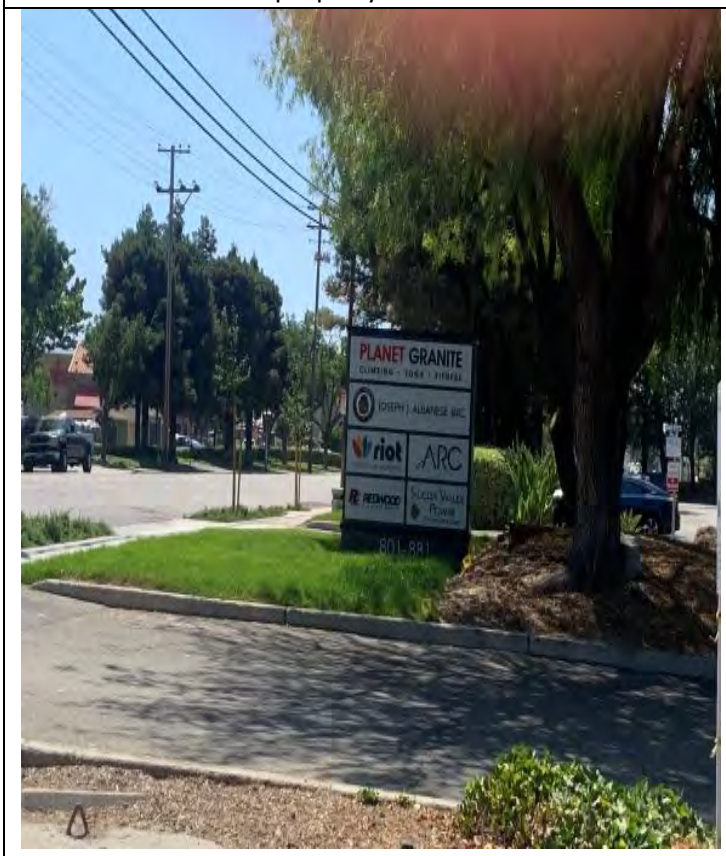

Photo 7: Adjacent commercial property to the west.

Photo 8: Home Depot – just southwest of the Site.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
399242	Gary Lieberman July 21, 2021	2 of 3	Vantage Data Centers	651 Martin Drive Santa Clara, California	TRC

Appendix D
Phase I ESA Photograph Log

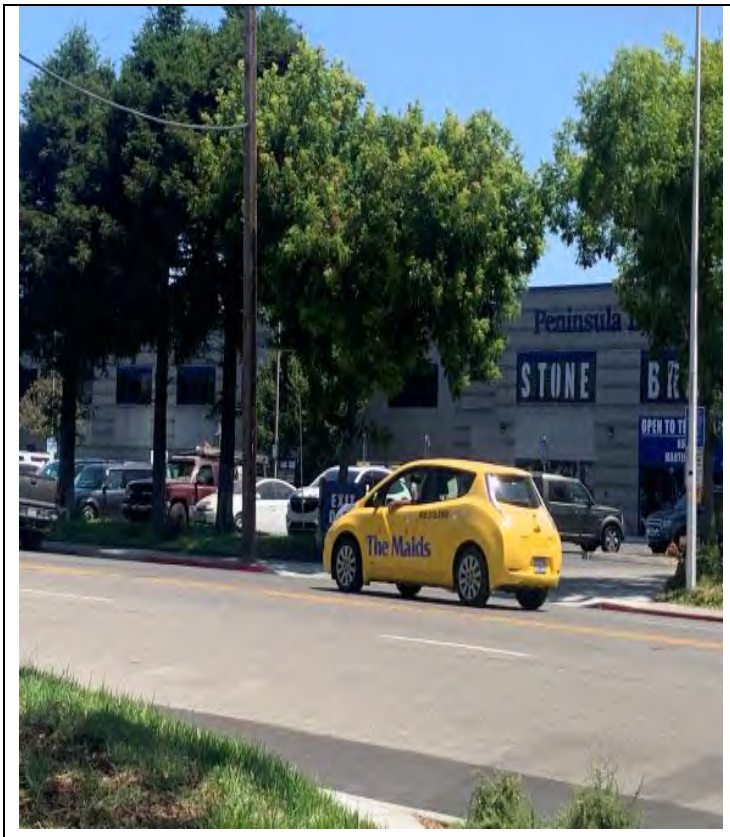

Photo 9: Commercial property just southeast of the Site.

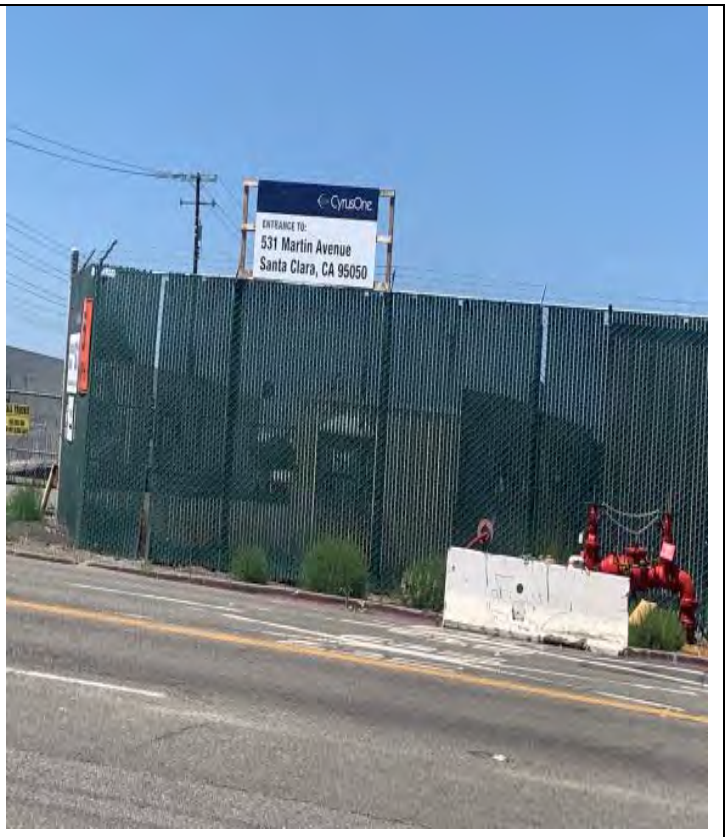

Photo 10: Commercial property just east of the Site.

Photo 11: Commercial property east of the Site.

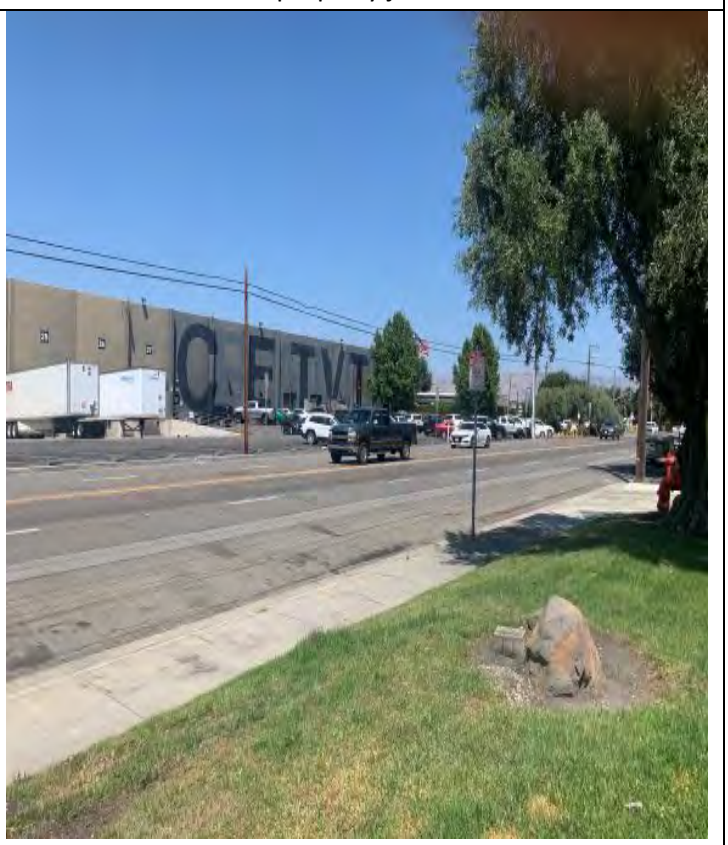

Photo 12: Commercial property east of the Site.

Appendix E:
Other Reference Information

FMC Corporation

Ground Systems Division
1125 Coleman Avenue Box 367
San Jose California 95103
(408) 289-0111

FMC

CERTIFIED MAIL

December 4, 1989

Mr. Anthony R. Gangi
Gangi Brothers Packing Company
P.O. Box 518
Santa Clara, CA 95052

RE: Report of Removal of Deburr Waste Underground Storage Tank

Dear Mr. Gangi:

Enclosed you will find the report "Removal of Deburr Waste Underground Storage Tank at 651 Martin Avenue, Santa Clara, California," prepared by Pilko and Associates, Inc. for FMC Corporation. We are forwarding a copy of this report to the Santa Clara Fire Department.

Should you have any questions, please contact me at (408) 289-3141.

Sincerely,

T.C. Hobbs
Hydrologist

RECEIVED
DEC 05 1989
S. C. F. D.

cc: Santa Clara Fire Department
Santa Clara Valley Water District
Rino Pellissier - FMC
Dave Landgraf - FMC
Rob Lucacher - FMC

Santa Clara Valley
Water District

5750 ALMADEN EXPWY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 265-2600
FACSIMILE (408) 266-0271
www.scvwd.dsi.co.us
AN EQUAL OPPORTUNITY EMPLOYER

September 13, 2001

RECEIVED
SEP 14 2001
S.C.F.D.

Mr. Kevin Gangi
Gangi Brothers Packing Company
P.O. Box 814
Atwater, CA 95301

Mr. Patti Levonyak
Gahrahmet Properties
3476 Edward Avenue
Santa Clara, CA 95054

Mr. Allen Orwitz and Mr. Myron Zimmerman
S&K Investments
1330 Broadway
Oakland, CA 94612

Dear Ladies and Gentlemen:

Subject: Fuel Leak Site Case Closure –FMC Corporation, 651 Martin Avenue, Santa Clara, CA 95050); Case No. 14-220; SCVWDID # 06S1W35E03f

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Santa Clara Valley Water District is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Residual contamination exists at the site; however, the concentration levels are below regulatory concern

If you have any questions, please call Ms. Grace Cheng at (408) 265-2607, extension 2769. Thank you.

Sincerely,

ORIGINAL SIGNED BY

James S. Crowley, P.E.
Engineering Unit Manager
Leaking Underground Storage Tank Oversight Program

Enclosures:
1. Case Closure Letter
2. Case Closure Summary

cc: Mr. Chuck Headlee (w/enc)
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Mr. Larry Monette, Ph.D.
Santa Clara Fire Department
777 Benton Street
Santa Clara, CA 95050

Ms. Carla Lawson
Division of Clean Water Programs
Underground Storage Tank Cleanup Fund
State Water Resources Control Board
P.O. Box 944212
Sacramento, CA 94244-2120

(G.Cheng) (w/orig enc),

Santa Clara Valley
Water District

5750 ALMADEN EXPWY
SAN JOSE, CA 95118-3614
TELEPHONE (408) 265-2600
FACSIMILE (408) 266-0271
www.scvwd.dst.ca.us
AN EQUAL OPPORTUNITY EMPLOYER

September 13, 2001

Mr. Kevin Gangi
Gangi Brothers Packing Company
P.O. Box 814
Atwater, CA 95301

Mr. Patti Levonyak
Gahrahmet Properties
3476 Edward Avenue
Santa Clara, CA 95054

Mr. Allen Orwitz and Mr. Myron Zimmerman
S&K Investments
1330 Broadway
Oakland, CA 94612

Dear Ladies and Gentlemen:

Subject: Fuel Leak Site Case Closure –FMC Corporation, 651 Martin Avenue, Santa Clara, CA 95050); Case No. 14-220; SCVWDID # 06S1W35E03f

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

Please contact our office if you have any questions regarding this matter.

Sincerely,

ORIGINAL SIGNED BY

James S. Crowley, P.E.
Engineering Unit Manager
Leaking Underground Storage Tank Oversight Program

Santa Clara Valley
Water District

5750 ALMADEN EXPWY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 265-2600
FACIMILE (408) 266-0271
www.scvwd.dsl.ca.us
AN EQUAL OPPORTUNITY EMPLOYER

July 20, 2001

RECEIVED
JUL 23 2001
S.C.F.D.

Larry Monette, Ph.D.
Santa Clara Fire Department
777 Benton Street
Santa Clara, CA 95050

Dear Dr. Monette:

Subject: Fuel Leak at FMC Corporation, 651 Martin Avenue, Santa Clara, CA.

Our records indicate that there has been a subsurface release of petroleum hydrocarbons at the above site and a gasoline UST was removed in 1983. We are currently reviewing our files on this case. However, in order to proceed, we find it necessary to request your assistance on the matter. Please send us a copy of the Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report (URF), the fire inspector's notes, diagrams of the tank system, or any other information which will assist us in evaluating any threat to groundwater quality.

If you have any questions, please call Ms. Grace Cheng at (408) 265-2607, extension 2769.

Sincerely,

Grace Cheng
Water Quality Specialist
Leaking Underground Storage Tank Oversight Program

GC:ib

Cc: G.Cheng

PILKO & ASSOCIATES, INC.
Business / Environmental / Real Estate Consultants

6351 OWENSMOUTH AVENUE, SUITE 202
WOODLAND HILLS, CALIFORNIA 91367
(818) 716-9311
FAX: (818) 716-9450

REPORT OF

REMOVAL OF DEBURR WASTE

UNDERGROUND STORAGE TANK

AT

651 ~~615~~ MARTIN AVENUE

SANTA CLARA, CALIFORNIA

Prepared for

FMC CORPORATION

For PILKO & ASSOCIATES, INC.

Roy C. Kiser

A. J. Aluknavich

November, 1989
(3017.420)

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A.

INTRODUCTION

The 651 Martin Avenue site, located in the City of Santa Clara, was leased to FMC in 1979. In preparation for ending the lease and returning the property to its owner, production operations were discontinued and all production equipment was removed from the site in March, 1989.

The manufacturing activity conducted prior to March, 1989, included the operation of an Almco deburring machine located inside the manufacturing building (Figure 1). The machine was enclosed by a square trench and a sump that controlled the flow of water and ceramic media used in the deburring process. There was also a two-inch diameter PVC pipeline leading into the trench from three automated grinding machines located elsewhere in the building. This PVC line reportedly carried only water and residue from the grinding of aluminium parts.

The trench surrounding the deburring machine drained by gravity to a five-foot square by three-foot deep sump located in the northwest corner of the machine area. Both the trench and sump were lined with a protective coating, which was visually inspected after the trench and sump were emptied and steam-cleaned by an independent contractor in April, 1989. There was no visible evidence of cracks, chipping, or deterioration of the sump.

Overflow from the sump drained by gravity into a six-inch clay pipeline leading to an 880-gallon underground steel tank located outside the manufacturing building (Figure 1). Since the underground tank was installed and used by FMC to support the discontinued deburr operation, the owner of the property asked that the tank be removed before the lease expired. FMC agreed to this request and contracted Pilko & Associates to supervise the formal closure of the tank.

B.

SCOPE OF WORK

The closure of the 880-gallon underground tank consisted of completing the following tasks:

1. Obtaining a tank removal permit from City of Santa Clara Fire Department (SCFD).

2. Testing the clay pipeline for leakage.

3. Removing and disposing of the tank and clay pipe.

4. Collecting and analyzing soil samples from tank excavation and from the soils beneath the clay pipe, as required by the SCFD.

5. Backfilling the tank cavity and clay pipe excavation.

C.

TANK AND PIPE REMOVAL

PERMIT

Prior to starting onsite work, a removal permit (No. P89-360) was obtained from the City of Santa Clara Fire Department (SCFD). After the permit was issued, the SCFD was notified of the date and time of the removal effort. Ms. Sally Ortega, SCFD inspector, observed the excavating, testing and soil sampling at the site.

CLAY PIPE LEAKAGE TEST

SCFD tank removal policy requires a 50 pounds per square inch (psi), five-minute pressure test of product lines associated with tanks being removed. The only pipe associated with the tank at the 651 Martin Avenue site was approximately 200 feet of six-inch diameter clay pipe which acted as a conveyance line between the deburring machine sump inside the manufacturing building and the tank itself. Clay pipelines are not designed to function under pressure and it was expected that this line would not easily pass a 50 psi test. As an alternate approved by the SCFD, a hydrostatic test was conducted. The entire pipe was filled with water and held at a low but constant pressure for approximately 24 hours. Sufficient water loss occurred during the test to confirm that the pipe was leaking. The leak points could not be identified, so the entire pipe was removed (Attachment 1, Photograph 1).

TANK REMOVAL

The tank was emptied and cleaned by an independent contractor in April, 1989, and no further cleaning was required to satisfy SCFD policy. Since the tank had never been used to store flammable materials of any kind, there was no need to inert the tank prior to removal.

Under subcontract to Pilko & Associates, Trumpp Brothers, Inc, San Jose, California, excavated and removed the tank by backhoe on July 21, 1989. Following removal, excess soil was scraped from the outer tank walls and the tank was inspected by the SCFD and the Pilko site representative. Minor rust and residual ceramic media encrustations were noted on the inside base of the tank (Attachment 1,

Photograph 2) and minor rust and soil-rust encrustations were noted on the outside walls and base of the tank (Attachment 1, Photographs 3 and 4). There was no visual evidence of damage or major deterioration to the tank, nor was there evidence of leakage from any part of the tank. Following the inspection, the tank was manifested offsite for disposal by H & H Ship Service, Co., San Francisco, California, under subcontract to Trumpp Brothers.

One standard interface soil sample was collected from the tank excavation at a depth of 12.5 feet below grade. The sample was collected in accordance with criteria established by the Regional Water Quality Control Board (RWQCB) by Blaine Tech Services, Inc., San Jose, California, under subcontract to Trumpp Brothers. The sampling procedure included the following steps:

1) One backhoe bucket of soil was excavated from the center of the tank excavation and lifted to ground surface.

2) A brass sampling tube two inches in diameter and four inches in length was pushed into fresh soil until the tube was filled.

3) The tube was sealed at each end using aluminum foil, plastic end caps and non-contributive/ non-subtractive tape.

4) After sealing, the sample tube was labeled, placed on ice, and transported to a state-certified laboratory (Attachment 2, USEPA Approved Chain-of-Custody Documentation).

Following the sampling, the tank excavation was backfilled to within four feet below grade with clean construction-grade sand. A nominal amount of tap water was added to the sand during placement, and compaction was performed using a sheep's-foot roller wheel especially adapted for use with the backhoe boom. Final fill, compaction, and re-paving were performed only after laboratory results received indicated that no significant contamination was detected in the interface sample. Final backfilling and compaction was completed by Trumpp Brothers in the same manner as the initial backfilling.

CLAY PIPE REMOVAL

As previously described, a hydrostatic test confirmed leakage in the six-inch clay pipe leading from the Almco deburr machine sump to the underground tank. As a result, the pipe was removed on July 25, 1989, by Trumpp Brothers, Inc. The removal entailed chipping out an 18-inch wide strip of concrete flooring with a jack hammer on the inside of the manufacturing building and cutting an 18-inch wide strip of asphalt paving with a diamond saw on the outside of the building. The trench backfill material (pea-gravel) and clay pipe were excavated by backhoe.

Following removal, four interface soil samples were taken from the invert of the clay pipe trench by Blaine Tech Services. The locations of the sampling points were suggested by the Pilko site representative and agreed to by the SCFD inspector, who witnessed the sampling procedure. The locations were selected on the basis of two considerations.

First, during the clay pipe excavation process, seven PVC and metal pipes were discovered extending perpendicular to and above the clay pipe approximately 40 feet from the removed underground tank (Attachment 1, Photograph 5). It appeared that damage to the clay pipe may have occurred during the trench excavation for the seven lines and the repair work included substituting a 10-foot section of PVC pipe for two sections of clay pipe. This non-standard installation appeared to be a likely source of leakage. Therefore, two soil samples were collected from the invert of the trench directly beneath the joints at opposite ends of the PVC.

Second, there were two points at which the clay pipe made 90° turns. Flow through a 90° turn is more turbulent than along straight sections of pipe and such turns are more vulnerable to leakage; therefore, a sample was collected from beneath each of these two turns.

The soil samples were collected in accordance with criteria established by the RWQCB by Blaine Tech Services. The sampling procedure included the following steps:

1) A shovel was used to remove additional soil from the invert of the trench. After fresh interface soil was exposed, the sample was collected using a hand-driven core sampler equipped with a brass sampling tube to retain the sample.

3) After the sample was removed from the ground, the brass tube was removed from the sampler and sealed, labeled and handled in the same manner as the sample from beneath the tank.

Following the receipt of the soil sample laboratory results, the clay pipe trench was backfilled, partially with pea-gravel and partially, with fine-grained quarry sand, and compacted with a sheep's-foot roller wheel adapted to a backhoe boom. The paving of asphalt over the tank and clay pipe excavations and concrete flooring replacement inside the manufacturing building were performed by a construction firm under subcontract to FMC.

PVC PIPE

The two-inch diameter PVC pipeline leading into the deburr machine open trench was pressure-tested to 50 psi of compressed air for a minimum of five minutes. The test was witnessed by the SCFD inspector. Since this pipe did not leak, it was left in place and filled with cement grout to prevent future use.

LABORATORY ANALYSES

The laboratory analyses performed on the five soil samples collected from beneath the underground tank and the clay pipe were selected on the basis of known contents of the tank and site history. The primary contents of the tank were sludge consisting of water, ceramic powder, metal fines, and detergent. The water-soluble cutting and cooling oils used at the site for metal cutting and machine cooling operations were Trim Sol and Dromus B. Each was mixed with 20 parts water to one part oil before use. The site operations also used small quantities of common solvents, primarily for hand cleaning of parts. Methylene chloride and 1,1,1-trichloroethane are known to have been used from time to time.

The previous occupant of the site was the Larson Ladder Company, which manufactured various types of wooden and aluminum ladders. No site assessments are known to have occurred during the ladder company tenure; therefore, identification or confirmation of any hazardous materials that may have been used is not available. It is speculated that the materials of primary concern would have been paints, thinners and adhesives.

On the basis of the above information, the following analyses were selected:

- Total Petroleum Hydrocarbons (EPA Method 418.1)
- Purgeable halocarbons (EPA Method 8010)
- Metals (cadmium, chromium, lead, zinc, iron)

Samples were analyzed by Sequoia Analytical of Redwood City, California, a state-certified laboratory (Attachment 3, Certified Analytical Reports).

CONCLUSIONS

The results of the soil samples collected from the tank and clay pipe trench are summarized in Table 1.

The most probable source of TPA concentration in the soil samples shown on Table 1 is from the water-soluble cooling oils used at the site for machining operations. Allowable levels of TPH in soils has not been established by statute in the state of California. The local responsbile agency usually makes this determination based on various criteria, such as source and volatibity of the TPH, local groundwater conditions, type of soil, distance of nearest water well, etc. The SCFD, the local responsible agency for the 651 Martin Avenue tank removal, was quarried and indicated that TPH concentrations less than 100 ppm at this site were not a major concern and would not require remediation.

None of the metal concentrations exceed the 10xSTLC (Soluble Threshhold Limit Concentration) or TTLC (Total Threshhold Limit Concentration) established by Title 22 of the Code of California Regulations (CCR). The 10xSTLC or TTLC, whichever is lower, is shown in Table 1. The iron concentrations, ranging from 9,600 to 23,000 ppm, are considered to occur naturally in this general area. Other site assessments performed by FMC indicated similar concentrations of iron in numerous samples at scattered locations throughout the site.

In summary, minor TPH concentrations were detected in two soil samples, no purgeable halocarbons were detected, and metals concentrations are below established criteria. On this basis, no further actions are recommended regarding the deburr tank and clay pipe removal.

Table 1

Summary of Analytical Results
651 Martin Avenue - Underground Storage Tank Removal

Concentrations (ppm)

	EPA Method	Detection Limit	Pipe Trench #1	Pipe Trench #2	Pipe Trench #3	Pipe Trench #4	Tank #1	Reg. Limit	Reg. Source
Purgeable Halocarbons	8010	(1)	ND	ND	ND	ND	ND	(1)	(1)
TPH	418.1	1.0	ND	11	ND	ND	75	(2)	(2)
Cadmium	6010	0.05	0.5	0.25	0.43	0.25	0.18	10	10xSTLC
Chromium	6010	0.05	21.0	14.0	33.0	23.0	42.0	2,500	TTLC
Iron	6010	0.02	14,000	9,600	23,000	13,000	9,700	(2)	(2)
Lead	7421	0.05	4.8	2.9	9.9	4.9	2.6	50	10xSTLC
Zinc	6010	0.01	35.0	25.0	57.0	47.0	37.0	2,500	10xSTLC

(1) Detection limits for the 28 compounds analyzed range from 0.005 to 0.025 ppm; regulatory limits are determined when a compound is detected.

(2) No regulatory limits established

ND = Not detected in concentrations above detection levels

D.

REPORT LIMITATIONS

The scope of this report is limited to the matters expressly covered. This report is prepared for the sole benefit of **FMC Corporation**, and may not be relied upon by any other person or entity without the written authorization of Pilko & Associates, Inc.

In preparing this report, Pilko & Associates, Inc. has relied on information derived from secondary sources and personal interviews. Except as set forth in this report, Pilko & Associates, Inc. has made no independent investigation as to the accuracy or completeness of the information derived from the secondary sources and personal interviews and has assumed that such information was accurate and complete.

All recommendations, findings, and conclusions stated in this report are based upon facts and circumstances as they existed at the time that this report was prepared (e.g., federal, state and local laws, rules, regulations, market conditions, energy costs, wage rates, political climate, and other matters that Pilko & Associates, Inc. deemed relevant). A change in any fact or circumstance upon which this report is based may adversely affect the recommendations, findings, and conclusions expressed in this report.

NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY. PILKO & ASSOCIATES, INC. MAKES NO REPRESENTATION OR WARRANTY THAT THE IMPLEMENTATION OR USE OF THE RECOMMENDATIONS, FINDINGS, OR CONCLUSIONS OF THIS REPORT WILL RESULT IN COMPLIANCE WITH APPLICABLE LAW.

E.

ATTACHMENTS

1. Photographs
2. USEPA Approved Chain of Custody Documentation
3. Certified Analytical Reports

CITY OF SANTA CLARA

CHAIN OF CUSTODY RECORD

PROJECT NO.	SITE NAME & ADDRESS
BTS 890721A1	FMC 651 MARTIN AVENUE, SANTA CLARA, CA.

WITNESSING AGENCY / INSPECTOR NAME / DATE

ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION	TPH (Gasoline) & B, T, X, & E	TPH (Diesel) & B, T, X & E	Total Oil & Grease	PO/D Halogenated HC's	B, T, X & E	Heavy Metals		REMARKS
#1	7-21	11:45	✓		Bottom of Pit			X	X		X*	.	*Cd, Cr, Zn, Fe, Pb

ANALYSES REQUESTED (1)

(1) See attached "Table 2" for specific analysis method.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	12:55 7-21	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Rec'd for Laboratory by: (Signature)
	7/21/89 12:55	[signature]

The following MUST BE completed by the laboratory accepting samples for analysis:

1. Have all samples received for analysis been stored in ice? Yes
2. Will samples remain refrigerated until analyzed? Yes
3. Did any samples received for analysis have head space? NO
4. Were samples in appropriate containers and properly packaged? Yes

[signature] — Signature; Sample Control — Title; 7/21/89 — Date

Rev: 12-88

ATTACHMENT 2

SANTA CLARA COUNTY CENTRAL FIRE PROTECTION DISTRICT
3071 DRIFTWOOD DRIVE • SAN JOSE, CA 95128-4499 • (408) 378-4015

CHAIN OF CUSTODY RECORD

PROJECT NO.: 890726M1

SITE NAME & ADDRESS: Trumpp Bros & FMC 651 Martin Ave. Santa Clara

WITNESSING AGENCY / INSPECTOR NAME / DATE: Santa Clara Fire Dept. / Sally Ortega

ID NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION	TPH (Gasoline) & B, T, X, & E	TPH (Diesel) & B, T, X & E	Total Oil & Grease 418.1	Halogenated HC's	B, T, X & E	~~Heavy~~ Metals: Cd, Cr, Pb, Fe, Zn	8010	REMARKS
#1	7/26	11:15	X		beneath drain line			X			X	X	
#2	7/26	11:30	X		beneath drain line			X			X	X	
#3	7/26	11:45	X		beneath drain line			X			X	X	
#4	7/26	12:00	X		beneath drain line			X			X	X	
#5	7/26	2:30	X		beneath box beam machine			X					BOX BEAM SAMPLING
#6	7/26	2:45	X		beneath box beam machine			X					WAS UNRELATED
#7	7/26	3:00	X		beneath box beam machine			X					TO TANK PULL.

ANALYSES REQUESTED (1)

(1) See attached "Table 2" for specific analysis method.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Kevin Markey	7/26 3:45	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Rec'd for Laboratory by: (Signature)
	7/26/89 3:45 pm	[illegible]

The following MUST BE completed by the laboratory accepting samples for analysis:

1. Have all samples received for analysis been stored in ice? YES
2. Will samples remain refrigerated until analyzed? YES
3. Did any samples received for analysis have head space? NO
4. Were samples in appropriate containers and properly packaged? YES

[illegible] Supervisor 7-26-89
Signature Title Date

CFD #70 Rev: 12-88

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890721A1, Trumpp Bros. @ FMC	Sampled:	Jul 21, 1989
1370 Tully Rd., Suite 505	Matrix Descript:	Soil, #1 TANK EXCAVATION	Received:	Jul 21, 1989
San Jose, CA 95122	Analysis Method:	EPA 418.1 (I.R. with clean-up)	Analyzed:	Jul 24, 1989
Attention: Richard Blaine	First Sample #:	907-2404	Reported:	Jul 25, 1989

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
907-2404	#1	75

Detection Limits:	**1.0**

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9072404.BLA <2>

ATTACHMENT 3

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890721A1, Trumpp Bros. @ FMC	Sampled:	Jul 21, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #1 TANK EXCAVATION	Received:	Jul 21, 1989
San Jose, CA 95122	Analysis Method:	EPA 5030/8010	Analyzed:	Jul 21, 1989
Attention: Richard Blaine	Lab Number:	907-2404	Reported:	Jul 25, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25.0	N.D.
2-Chloroethylvinyl ether	5.0	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10.0	N.D.
1,3-Dichlorobenzene	10.0	N.D.
1,4-Dichlorobenzene	10.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
Total 1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890721A1, Trumpp Bros. @ FMC	Sampled:	Jul 21, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #1 TANK EXCAVATION.	Received:	Jul 21, 1989
San Jose, CA 95122				
Attention: Richard Blaine	Lab Number:	907-2404	Analyzed:	Jul 24, 1989
			Reported:	Jul 25, 1989

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium	0.1	0.18
Chromium	0.05	42
Iron	0.2	9,700
Lead	0.05	2.6
Zinc	0.1	37

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9072404.BLA <1>

SEQUOIA ANALYTICAL

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(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890726M1, Trumpp Bros. @ FMC	Sampled:	Jul 26, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #1 TRENCH	Received:	Jul 26, 1989
San Jose, CA 95122			Extracted:	Jul 27, 1989
Attention: Richard Blaine	Lab Number:	907-3254	Analyzed:	Jul 27, 1989
			Reported:	Jul 28, 1989

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium	0.1	0.50
Chromium	0.05	21
Zinc	0.1	35
Iron	0.1	14,000
Lead	0.05	4.8

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9073254.BLA <1>

SEQUOIA ANALYTICAL

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(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890726M1, Trumpp Bros. @ FMC	Sampled:	Jul 26, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #2 TRENCH	Received:	Jul 26, 1989
San Jose, CA 95122			Extracted:	Jul 27, 1989
Attention: Richard Blaine	Lab Number:	907-3255	Analyzed:	Jul 27, 1989
			Reported:	Jul 28, 1989

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium	0.1	0.25
Chromium	0.05	14
Zinc	0.1	25
Iron	0.1	9,600
Lead	0.05	2.9

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9073254.BLA <2>

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890726M1, Trumpp Bros. @ FMC	Sampled:	Jul 26, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #3 TRENCH	Received:	Jul 26, 1989
San Jose, CA 95122			Extracted:	Jul 27, 1989
Attention: Richard Blaine	Lab Number:	907-3256	Analyzed:	Jul 27, 1989
			Reported:	Jul 28, 1989

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium	0.1	0.43
Chromium	0.05	33
Zinc	0.1	57
Iron	0.1	23,000
Lead	0.05	9.9

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9073254.BLA <3>

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890726M1, Trumpp Bros. @ FMC	Sampled:	Jul 26, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #4 TRENCH	Received:	Jul 26, 1989
San Jose, CA 95122			Extracted:	Jul 27, 1989
Attention: Richard Blaine	Lab Number:	907-3257	Analyzed:	Jul 27, 1989
			Reported:	Jul 28, 1989

LABORATORY ANALYSIS

Analyte	Detection Limit mg/kg	Sample Results mg/kg
Cadmium	0.1	0.25
Chromium	0.05	23
Zinc	0.1	47
Iron	0.1	13,000
Lead	0.05	4.9

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9073254.BLA <4>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890726M1, Trumpp Bos. @ FMC	Sampled:	Jul 26, 1989
1370 Tully Rd., Suite 505	Matrix Descript:	Soil	Received:	Jul 26, 1989
San Jose, CA 95122	Analysis Method:	EPA 418.1 (I.R. with clean-up)	Extracted:	Jul 27, 1989
Attention: Richard Blaine	First Sample #:	907-3254	Analyzed:	Jul 27, 1989
			Reported:	Jul 28, 1989

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
907-3254	#1	N.D.
907-3255	#2	11
907-3256	#3	N.D.
907-3257	#4	N.D.
907-3258	#5	2,200
907-3259	#6	7.4
907-3260	#7	14

BOX BEAM MACHINE AREA (UNRELATED TO TANK PULL)

Detection Limits:	1.0

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9073254.BLA <5>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890726M1, Trumpp Bros. @ FMC	Sampled:	Jul 26, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #1 TRENCH	Received:	Jul 26, 1989
San Jose, CA 95122	Analysis Method:	EPA 5030/8010	Analyzed:	Jul 27, 1989
Attention: Richard Blaine	Lab Number:	907-3254	Reported:	Jul 28, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	50.0	N.D.
Bromoform	50.0	N.D.
Bromomethane	50.0	N.D.
Carbon tetrachloride	50.0	N.D.
Chlorobenzene	50.0	N.D.
Chloroethane	250.0	N.D.
2-Chloroethylvinyl ether	50.0	N.D.
Chloroform	50.0	N.D.
Chloromethane	50.0	N.D.
Dibromochloromethane	50.0	N.D.
1,2-Dichlorobenzene	100.0	N.D.
1,3-Dichlorobenzene	100.0	N.D.
1,4-Dichlorobenzene	100.0	N.D.
1,1-Dichloroethane	50.0	N.D.
1,2-Dichloroethane	50.0	N.D.
1,1-Dichloroethene	50.0	N.D.
Total 1,2-Dichloroethene	50.0	N.D.
1,2-Dichloropropane	50.0	N.D.
cis-1,3-Dichloropropene	50.0	N.D.
trans-1,3-Dichloropropene	50.0	N.D
Methylene chloride	100.0	N.D.
1,1,2,2-Tetrachloroethane	50.0	N.D.
Tetrachloroethene	50.0	N.D.
1,1,1-Trichloroethane	50.0	N.D.
1,1,2-Trichloroethane	50.0	N.D.
Trichloroethene	50.0	N.D.
Trichlorofluoromethane	50.0	N.D.
Vinyl chloride	100.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890726M1, Trumpp Bros. @ FMC	Sampled:	Jul 26, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #2 TRENCH	Received:	Jul 26, 1989
San Jose, CA 95122	Analysis Method:	EPA 5030/8010	Analyzed:	Jul 27, 1989
Attention: Richard Blaine	Lab Number:	907-3255	Reported:	Jul 28, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	50.0	N.D.
Bromoform	50.0	N.D.
Bromomethane	50.0	N.D.
Carbon tetrachloride	50.0	N.D.
Chlorobenzene	50.0	N.D.
Chloroethane	250.0	N.D.
2-Chloroethylvinyl ether	50.0	N.D.
Chloroform	50.0	N.D.
Chloromethane	50.0	N.D.
Dibromochloromethane	50.0	N.D.
1,2-Dichlorobenzene	100.0	N.D.
1,3-Dichlorobenzene	100.0	N.D.
1,4-Dichlorobenzene	100.0	N.D.
1,1-Dichloroethane	50.0	N.D.
1,2-Dichloroethane	50.0	N.D.
1,1-Dichloroethene	50.0	N.D.
Total 1,2-Dichloroethene	50.0	N.D.
1,2-Dichloropropane	50.0	N.D.
cis-1,3-Dichloropropene	50.0	N.D.
trans-1,3-Dichloropropene	50.0	N.D.
Methylene chloride	100.0	N.D.
1,1,2,2-Tetrachloroethane	50.0	N.D.
Tetrachloroethene	50.0	N.D.
1,1,1-Trichloroethane	50.0	N.D.
1,1,2-Trichloroethane	50.0	N.D.
Trichloroethene	50.0	N.D.
Trichlorofluoromethane	50.0	N.D.
Vinyl chloride	100.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9073254.BLA <7>

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890726M1, Trumpp Bros. @ FMC	Sampled:	Jul 26, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #3 TREEHH	Received:	Jul 26, 1989
San Jose, CA 95122	Analysis Method:	EPA 5030/8010	Analyzed:	Jul 27, 1989
Attention: Richard Blaine	Lab Number:	907-3256	Reported:	Jul 28, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	50.0	N.D.
Bromoform	50.0	N.D.
Bromomethane	50.0	N.D.
Carbon tetrachloride	50.0	N.D.
Chlorobenzene	50.0	N.D.
Chloroethane	250.0	N.D.
2-Chloroethylvinyl ether	50.0	N.D.
Chloroform	50.0	N.D.
Chloromethane	50.0	N.D.
Dibromochloromethane	50.0	N.D.
1,2-Dichlorobenzene	100.0	N.D.
1,3-Dichlorobenzene	100.0	N.D.
1,4-Dichlorobenzene	100.0	N.D.
1,1-Dichloroethane	50.0	N.D.
1,2-Dichloroethane	50.0	N.D.
1,1-Dichloroethene	50.0	N.D.
Total 1,2-Dichloroethene	50.0	N.D.
1,2-Dichloropropane	50.0	N.D.
cis-1,3-Dichloropropene	50.0	N.D.
trans-1,3-Dichloropropene	50.0	N.D.
Methylene chloride	100.0	N.D.
1,1,2,2-Tetrachloroethane	50.0	N.D.
Tetrachloroethene	50.0	N.D.
1,1,1-Trichloroethane	50.0	N.D.
1,1,2-Trichloroethane	50.0	N.D.
Trichloroethene	50.0	N.D.
Trichlorofluoromethane	50.0	N.D.
Vinyl chloride	100.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Blaine Tech Services	Client Project ID:	BTS #890726M1, Trumpp Bros. @ FMC	Sampled:	Jul 26, 1989
1370 Tully Rd., Suite 505	Sample Descript:	Soil, #4 TRENCH	Received:	Jul 26, 1989
San Jose, CA 95122	Analysis Method:	EPA 5030/8010	Analyzed:	Jul 27, 1989
Attention: Richard Blaine	Lab Number:	907-3257	Reported:	Jul 28, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane	50.0	N.D.
Bromoform	50.0	N.D.
Bromomethane	50.0	N.D.
Carbon tetrachloride	50.0	N.D.
Chlorobenzene	50.0	N.D.
Chloroethane	250.0	N.D.
2-Chloroethylvinyl ether	50.0	N.D.
Chloroform	50.0	N.D.
Chloromethane	50.0	N.D.
Dibromochloromethane	50.0	N.D.
1,2-Dichlorobenzene	100.0	N.D.
1,3-Dichlorobenzene	100.0	N.D.
1,4-Dichlorobenzene	100.0	N.D.
1,1-Dichloroethane	50.0	N.D.
1,2-Dichloroethane	50.0	N.D.
1,1-Dichloroethene	50.0	N.D.
Total 1,2-Dichloroethene	50.0	N.D.
1,2-Dichloropropane	50.0	N.D.
cis-1,3-Dichloropropene	50.0	N.D.
trans-1,3-Dichloropropene	50.0	N.D.
Methylene chloride	100.0	N.D.
1,1,2,2-Tetrachloroethane	50.0	N.D.
Tetrachloroethene	50.0	N.D.
1,1,1-Trichloroethane	50.0	N.D.
1,1,2-Trichloroethane	50.0	N.D.
Trichloroethene	50.0	N.D.
Trichlorofluoromethane	50.0	N.D.
Vinyl chloride	100.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9073254.BLA <9>

THE CITY OF SANTA CLARA

CALIFORNIA

FIRE DEPT
777 BENTON STREET
SANTA CLARA, CA 95050
(408) 984-3059

September 9, 1990

Penny Silzer
Regional Water Quality Control Board
San Francisco Bay Region
1900 Harrison Street, Suite 700
Oakland, CA 94612

RE: 651 Martin Avenue
Santa Clara, CA 95050

Dear Mr. Silzer:

This letter is to inform you of groundwater contamination at the above-noted site. The site was being used by FMC Corporation at the time the wells were drilled. Four wells were installed in April 1989 (see attached well permits) and water samples tested in May 1989. Two of the wells show petroleum hydrocarbon contamination and two wells show chlorinated hydrocarbon contamination. Copies of the laboratory test data are attached.

Sincerely yours,

SANTA CLARA FIRE DEPARTMENT

Larry Monette

Larry Monette, Ph.D.
Chemical Specialist

LM:sbg

cc: w/ all enclosures
Mr. Tim Hobbs
FMC Corporation
1125 Coleman Avenue, Mail Stop #E-53
San Jose, CA 95103

Belinda Allen
Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, California 95118
Telephone (408) 265-2600

WELL CONSTRUCTION APPLICATION

FC 158 (02-06-86) (DP 4-901)

TO BE COMPLETED BY DISTRICT

Well Permit No.: 89W0696	Date Issued: 4-20-89	Well Registration No.: well not installed
Water Quality Zone: 1 / Expiration Date: 7-20-89	Coordinates of Well "X" ____ "Y" ____	Driller's Log No.: 318487

TO BE COMPLETED BY OWNER AND DRILLER

Property Owner: FMC	Well Owner (if different): Same	Drilling Co.: All Terrain
Address: 1125 Coleman Ave.	ADDRESS OF WELL SITE: 651 Martin Ave.	Driller's Contractors License Number (ES) REQ'D: C57-437836
City, State, Zip: San Jose, CA 95110	City, State, Zip: Santa Clara, CA 95050	Address: 2789 Liberty Lane
Telephone No.: 408 289-4050	Telephone No.: None	City, State, Zip: Roseville, CA 95678
Assessor's Parcel No. of Well Site: Book ~~E3316~~ Page ~~339~~ Parcel 224-04071	Owner's/Consultant's Well No.: MW-8	Telephone No.: 916 771-0222

Estimated depth of completed well: ☒ Less than 50 ft. ☐ 50 to 300 ft. ☐ Over 300 ft.

Water Quality Zone No.: _____ (See Fig. 1 SCVWD Construction Standards. Use "BR" if bedrock).

Purpose of Well: ☐ Domestic ☐ Municipal/Industrial ☐ Agricultural • ☒ Monitoring ☐ Cathodic Protection

*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive water samples for analyses. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.

THIS SECTION TO BE COMPLETED FOR ALL WELLS EXCEPT DOMESTIC WATER WELLS

Purpose of Monitoring Well: ☐ To comply with City or County Hazardous Materials Storage Permit Ordinance X Exploration studies ☐ Extraction/recovery ☐ Other (specify): _____

NAME OF BUSINESS AT WELL SITE: FMC

If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? ☐ Yes ☐ No

If yes, give name of City or County _____

Consultant's Name (company): Pilko & Associates, Inc.

Address: 6351 Owensmouth Ave., Ste 202

City, State, Zip: Woodland Hills, CA 91367

Telephone No.: (818) 716-9311

Type of monitoring device: ☒ Groundwater ☐ Vadose

Monitoring well use: ☐ Depth ☐ Quality ☒ Depth and Quality ☐ Chloride ☐ Depth and Chloride

Vadose device installation: ☐ Vapor ☐ Interface ☐ Suction Lysimeter

Signature of Responsible Professional: Darryl G. Cambra

Registration No. Civil Engineer OR Certificate No. Engineering Geologist: EG000787

TOPOGRAPHIC FEATURES

Is well to be constructed: ☐ In a public sidewalk ☐ In a public road ☐ On public property ☒ On private property

Within 50 ft. of the top of a creek bank	☐ Yes	☒ No	Within 50 ft. of any existing well	☐ Yes	☒ No
Within 50 ft. of a sanitary sewer	☐ Yes	☒ No	Within 150 ft. of a cesspool or seepage pit	☐ Yes	☒ No
Within 100 ft. of a pit privy, septic tank, leachfield	☐ Yes	☒ No	Plot well location on reverse side of this application		

CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

Signature of Well Owner/Agent: Roy C. Kiser — Date: 4/17/89

Signature of Driller/Agent: Roy C. Kiser — Date: 4/17/89

MONITORING WELL PLAN APPROVAL

City/County: _____

Approved by: _____

Date: _____

IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 265-2600, Ext. 380. For weekends, holidays, after hours call (408) 395-8121 or (408) 265-2605.

FMC Corporation

Ground Systems Division
1125 Coleman Avenue Box 367
San Jose California 95103
(408) 289-0111

RECEIVED
FEB 15 1991
S. C. F. D.

FMC

February 13, 1991

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, California 95118

Attn: Self-Directed Fuel Leak Program

Re: Request for Technical Report
Fuel/Synthetic Chemical Leak
651 Martin Avenue
Santa Clara, CA Property

Dear Sir or Madam:

By letter dated January 10, 1991, over the signature of Belinda A. Allen, Associate Civil Engineer, Groundwater Protection Division, the Santa Clara Valley Water District (SCVWD or District) advised FMC Corporation that a "subsurface release of petroleum hydrocarbons and synthetic chemicals which has impacted, or threatens to impact, waters of the State" has been reported with respect to property located at 651 Martin Avenue, Santa Clara, and further stated that FMC has been "identified as a responsible party" with respect to this condition. In this SCVWD letter, addressed to FMC at the 651 Martin Avenue location and received by FMC on January 18, 1991, it was further requested that FMC submit a "technical report" by March 11, 1991, containing a "work plan and proposed schedule for the next phase of work" relative to investigative and remedial activities at this site.

Please be advised that for the reasons described below, FMC believes that the SCVWD's January 10, 1991 letter was issued to FMC in error. Therefore, FMC requests that the letter and request for a technical report be withdrawn and reissued to the proper parties in interest.

FMC does not own, has never owned, and does not currently occupy the property located at 651 Martin Avenue. Moreover, FMC does not currently have access to this property, and, due to the pendency of a civil lawsuit by the owner with respect to the property, might not be able to obtain access even if this became necessary. The property at 651 Martin Avenue is currently owned by Gangi Brothers Packing Company, P.O. Box 518, Santa Clara, California 95052. Based on information available to FMC, Gangi Brothers acquired the property in January 1984 from S & K Investments, a partnership including Allen Orwitz, Myron Zimmerman, Theodore Reich and the Lawrence E. and Eleanor Myers Family Trust, which had purchased it in January 1979 from Bendix Forest Products, a division of Bendix Corporation. Bendix Forest Products and its predecessor entities, American Forest Products Corporation and Larson Ladder Company, owned and occupied the property for a period of time extending back to the early 1950's.

In light of the foregoing, it would not appear reasonable to require a further FMC report in response to the District's January 10, 1991 correspondence and FMC does not therefore plan to provide a further response. Of course, if there are questions concerning this letter and the matters set forth or concerning the course of action proposed, please contact me at (408) 289-4422 or Mr. William J. Ferguson of this department at (408) 289-4050.

Sincerely,

Robert H. Lucacher

Robert H. Lucacher
Manager, Environmental Engineering

cc: Ms. Belinda A. Allen, Santa Clara Valley Water District
Ms. Penny Silzer, California Regional Water Quality Control Board
Mr. Larry Monette, City of Santa Clara Fire Department
Mr. William J. Ferguson, FMC Corporation, Environmental Eng. Dept.

FMC leased the 651 Martin Avenue property from S & K Investments in March 1979. At that time, it was an existing manufacturing facility, with buildings and other structures in place and in use for this purpose. During the preceding twenty-seven years, the property had been used for manufacturing purposes by the Larson Ladder Company, which became a wholly-owned subsidiary of the Bendix Corporation in 1975.

FMC conducted manufacturing operations on the property, using a majority of these existing buildings and structures, from March 1979 to March 1989. The lease was terminated and the property vacated by FMC in July 1989. During the period from March to July 1989, FMC removed equipment and supplies and cleaned the property in accordance with provisions of the lease and in consultation with the owner (Gangi Brothers). FMC also voluntarily undertook certain sampling and analytical testing of soils and ground water--again with the knowledge of the owner. The data from this investigation were provided to the owner in April 1990. Included in these data were analytical results for four groundwater monitoring wells (MW-1, MW-2, MW-3 and MW-4) which FMC caused to be installed in April 1989 into the shallow water-bearing zone (25-28 feet below ground surface) under permits issued by the District.

Based on copies of correspondence which FMC has received over the past several months (e.g., SCVWD (David J. Chesterton) to the California Regional Water Quality Control Board (Donald Dalke) dated January 2, 1991; City of Santa Clara Fire Department (Larry Monette) to RWQCB (Penny Silzer), with a copy to SCVWD, dated September (actually October) 9, 1990), it is apparent that these data are the basis for the District's January 10, 1991 letter and its request for a technical report. However, these data and the investigation undertaken by FMC in 1989 demonstrate that the primary source of chemicals in ground water at the 651 Martin Avenue property exists in the vicinity of a former underground gasoline storage tank (monitoring well MW-4). On May 8, 1989 and June 1, 1989, FMC performed groundwater sampling at this location which detected maximum concentration levels of TPH at 247,812 parts per billion (ppb), benzene at 14,884 ppb, toluene at 24,894 ppb, ethyl benzene at 3,377 ppb and xylene at 15,610 ppb. These are all compounds associated with gasoline and its various components. Soil samples taken during installation of MW-4 detected TPH at 14,493,000 ppb, benzene at 7,767 ppb, toluene at 245,460 ppb, ethyl benzene at 105,828 ppb and total xylenes at 1,327,952 ppb.

FMC has conducted a diligent investigation concerning this former underground gasoline storage tank. As a result, FMC has concluded that FMC did not install the tank, that the tank was in place prior to FMC's occupancy of the property in March 1979, and that FMC never used the tank during the time of its occupancy of the property. The tank was removed in 1983 by Mello Petroleum Company in response to an inspection by the Santa Clara Fire Department and upon notification to the owner at the time, S & K Investments.

Since it is very clear that the conditions recited in the District's January 10, 1991 letter and request, and in underlying correspondence, stem from the former underground gasoline storage tank, and that FMC was not involved with the installation or use of this tank, and since FMC is not the owner of the property, the January 10, 1991 letter should be withdrawn with respect to FMC. This letter and request for preparation and submittal of a technical report should be reissued with respect to the appropriate parties as identified in this letter.

Santa Clara Valley Water District

5750 ALMADEN EXPRESSWAY
SAN JOSE, CALIFORNIA 95118
TELEPHONE (408) 265-2600
FACSIMILE (408) 266-0271

AN AFFIRMATIVE ACTION EMPLOYER

January 2, 1991

RECEIVED
JAN 10 1991
S. C. F. D.

Mr. Don Dalke
Regional Water Quality Control Board
1800 Harrison Street
Oakland, CA 94612

Dear Mr. Dalke:

Subject: Oversight Transfer - FMC Corporation, 651 Martin Avenue, Santa Clara, CA 95050

This informs you that the District will be unable to provide active agency oversight on the investigation and remediation activities for the above named site. Our staff currently provide oversight only for fuel leak sites.

We have determined that groundwater samples at the site contain 5.5 ppb Methylene chloride, 6.0 ppb 1,1 - Dichloroethane, 8.3 ppb 1,1,1 - Trichloroethane, 5.7 ppb Trichloroethylene, 77.0 ppb 1,2 - Dichloroethane as well as TPH in excess of 181,000 ppb.

It is appropriate, then, that any investigation and remediation activities should be overseen by the Regional Board staff. If you need any further information, please call Belinda Allen at 927-0710, extension 644.

Sincerely,

ORIGINAL SIGNED BY
David J. Chesterman
Division Engineer
Groundwater Protection Division

Enclosure: Global Geochemistry Corporation, 5/5/89

cc: Regional Water Quality Control Board
Attention: Ms. Penny Silzer
1800 Harrison Street
Oakland, CA 94612

Santa Clara Fire Department
Attention: Mr. Larry Monette
777 Benton Street
Santa Clara, CA 95050

Mr. Steve Ritchie, RWQCB

Mr. Bruce Wolfe, RWQCB

FMC Corporation
1125 Coleman Avenue
San Jose, CA 95110

Mr. Robert Musial
State Water Resources Control Board
Division of Loans and Grants
2014 T Street
P. O. Box 944212
Sacramento, CA 94244-2120

Santa Clara Valley Water District
5750 ALMADEN EXPRESSWAY
SAN JOSE, CALIFORNIA 95118
TELEPHONE (408) 265-2600
FACSIMILE (408) 266-0271
AN AFFIRMATIVE ACTION EMPLOYER

January 10, 1991

RECEIVED
JAN 15 1991
S. C. F. D.

FMC Corporation
651 Martin Avenue
Santa Clara, CA 95050

Dear Ladies and Gentlemen:

Subject: Fuel/Synthetic Chemical Leak at 651 Martin Avenue, Santa Clara, CA 95050

This letter informs you that a subsurface release of petroleum hydrocarbons and synthetic chemicals which has impacted, or threatens to impact, waters of the State, has been reported and that you have been identified as a responsible party. We request that you submit a technical report to both the Santa Clara Valley Water District (District) and Regional Water Quality Control Board (Regional Board) on the investigation and remediation activities at the above site. Pursuant to the California Water Code, polluted soil and groundwater must be remediated to the satisfaction of the Regional Board. The Regional Board is the state agency responsible for enforcing the California Water Code to protect beneficial uses of both surface and groundwater.

Due to the large numbers of subsurface contamination cases being reported, the Regional Board has been unable to provide detailed regulatory oversight on these cases. A pilot program has been developed between the Regional Board and the District for the District to provide oversight on fuel leak only cases. The Regional Board will remain the Lead Agency for synthetic chemical and combined fuel leak/synthetic chemical sites.

The investigation and remediation of polluted soils and groundwater will generally follow the steps listed in the enclosed summary which is excerpted from the District's guidelines entitled, "Investigation and Remediation at Fuel Leak Sites Guidelines for Investigation and Technical Report Preparation," dated March 1989. These guidelines describe the steps for investigation and remediation that are necessary for case closure and are available to you by calling the District's "Self Directed Case Advisor." Generally, these steps for fuel leaks also apply for synthetic chemical sites. However, the technical methods differ significantly with regard to analyses and well construction. This document has been sent to all the known consultants who currently work in Santa Clara County.

By March 11, 1991, please submit a technical report containing a work plan and proposed schedule for the next phase of work you plan to complete according to the enclosed summary. This technical report is being requested pursuant to the Regional Board's authority under the California Water Code, Section 13267.

Copies of all future reports, letters, etc., should be submitted to the District, Attention Self-Directed Fuel Leak Program, the Regional Board, and the local fire department or agency which has jurisdiction over chemical storage on your site. The contacts and addresses are provided below:

Regional Water Quality Control Board
Attention: Ms. Penny Silzer
1800 Harrison Street
Oakland, CA 94612

Santa Clara Fire Department
Attention: Mr. Larry Monette
777 Benton Street
Santa Clara, CA 95050

Until you receive further notice, your case is considered to be "self-directed." At this time, the Regional Board and District will not be providing you with detailed review and comments on your investigation and remediation. Please be advised that the District and Regional Board will routinely review selected self-directed cases to determine whether or not investigation or cleanup is being pursued in a timely manner. At that time, we may consider providing direct oversight or recommending that enforcement action be taken by the Regional Board.

Please check with your consultants to determine whether or not they have the District's guidelines. If you or your consultants would like a copy of the guidelines or general information, please call (408) 972-0710, extension 649, and ask for the self-directed case advisor.

Sincerely,

ORIGINAL SIGNED BY

Belinda A. Allen
Associate Civil Engineer
Groundwater Protection Division

Enclosure

cc: Regional Water Quality Control Board
Attention: Ms. Penny Silzer
1800 Harrison Street
Oakland, CA 94612

Santa Clara Fire Department
Attention: Mr. Larry Monette
777 Benton Street
Santa Clara, CA 95050

MEMO PAD

TO: Larry
TIME: 10:20 DATE: 3/4/
NAME: Joe Stockli
FROM: Greg Brost
PHONE NO.: 727-6252

☒ TELEPHONED
☒ PLEASE CALL
☐ RETURNED YOUR CALL
☐ WAS IN
☐ WILL CALL AGAIN

re: Error problem
651 Martin

City of SANTA CLARA

Santa Clara Valley Water District

WELL INSPECTION COMPLETION NOTICE

FC 158A (02-06-86) (DP 4-901)

FROM: Groundwater Protection Section

DATE: 4/27/89

Well Permit No. 89W0891

Well/Boring No. MW-3 T.6S R.1W S.25 F.5E A

Inspector P. Thiemann

Date of Inspection 4/26/89

Well Owner F. M. Co.

Address of Well Site 651 Morton Ave

City or County City of Santa Clara

Drilling Co. All Terrain

Consultant RMC & Associates

Purpose of Well:

- ☐ Domestic
- ☐ Agricultural
- ☐ Municipal/Industrial
- ☐ Cathodic Protection

*Monitoring Well Use

- *☐ Vadose
- *☒ Groundwater
- *☐ Other

1. Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
2. Depth of Surface Annular Seal = 12.5

Comments: 4" PVC; TD 25.5; yellow stem screen 15.5 to 25.5 Grout 12.5 to 15.1

Distribution: White = Groundwater Protection Sect. Pink = Cities or County (w/attach) Canary = Permittee Goldenrod = Water Revenue

Santa Clara Valley Water District

5750 ALMADEN EXPRESSWAY
SAN JOSE, CALIFORNIA 95118
TELEPHONE (408) 265-2600
FACSIMILE (408) 266-0271

AN AFFIRMATIVE ACTION EMPLOYER

RECEIVED
MAR 06 1991
S. C. F. D.

March 4, 1991

Mr. Robert H. Lucacher
Manager, Environmental Engineering
FMC Corporation
Ground Systems Division
1125 Coleman Avenue Box 367
San Jose, CA 95103

Dear Mr. Lucacher:

Subject: FMC, 651 Martin Avenue, Santa Clara, California–Oversight Transfer

In response to your letter dated February 13, 1991, our review of the documents related to the above named site generated the following observations:

- FMC's chemical inventory at the site included petroleum products (diesel fuel, oil and solvents), methylene chloride, and 1,1,1-Trichloroethane. Concentrations of these chemicals were found in soil and groundwater samples collected by FMC (Attachments 1 and 2).

- FMC operated an underground tank for deburrment wastes on the property. This deburrment tank, which is located near MW-4 referenced in your letter, was not removed until July 1989 by Trumpp Bros. Inc. (Attachment 3). Documentation on a tank removal by Mello Petroleum in 1983 and any subsequent sampling has not been submitted.

- The deburrment tank may have been a source of petroleum pollution such as oil. The TPH analysis was done with EPA 418.1, which is used to measure total recoverable hydrocarbons, such as oil and grease. Therefore, we do not have the data necessary to determine the actual source of hydrocarbon contamination (Attachment 4).

The District transferred agency oversight for this case to the Regional Water Quality Control Board, who is now the lead agency for synthetic chemical contamination. Questions regarding FMC's designation as a responsible party should be addressed to the Regional Board.

Sincerely,

ORIGINAL SIGNED BY

Belinda A. Allen, P.E.
Associate Civil Engineer
Groundwater Protection Division

Attachments

cc: Ms. Penny Silzer
Regional Water Quality Control Board
1800 Harrison Street
Oakland, CA 94612

Mr. Larry Monette
Santa Clara Fire Department
777 Benton Street
Santa Clara, CA 95050

recycled paper

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, California 95118
Telephone (408) 265-2600

WELL CONSTRUCTION APPLICATION

FC 158 (02-06-86) (DP 4.901)

TO BE COMPLETED BY DISTRICT

Well Permit No.: 89W0693	Date Issued: 4-20-89	Well Registration No.: WELL NOT INSTALLED
Water Quality Zone: 1 / Expiration Date: 7-20-89	Coordinates of Well "X" ____ "Y" ____	Driller's Log No.: 318484

TO BE COMPLETED BY OWNER AND DRILLER

Property Owner: FMC	Well Owner (if different): Same	Drilling Co.: All Terrain
Address: 1125 Coleman Ave.	ADDRESS OF WELL SITE: 651 Martin Ave.	Driller's Contractors License Number: C57-437836 (C57 REQ'D)
City, State, Zip: San Jose, CA 95110	City, State, Zip: Santa Clara, CA 95050	Address: 2789 Liberty Lane
Telephone No.: 408 289-4050	Telephone No.: None	City, State, Zip: Roseville, CA 95678
Assessor's Parcel No. of Well Site: Book ~~E336~~ Page ~~239~~ Parcel 224-04-071	Owner's/Consultant's Well No.: MW-5	Telephone No.: 916 771-0222

Estimated depth of completed well: [X] Less than 50 ft. [ ] 50 to 300 ft. [ ] Over 300 ft.

Water Quality Zone No.: _____ (See Fig. 1 SCVWD Construction Standards. Use "BR" if bedrock).

Purpose of Well: [ ] Domestic [ ] Municipal/Industrial [ ] Agricultural *[X] Monitoring [ ] Cathodic Protection

*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive water samples for analyses. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.

THIS SECTION TO BE COMPLETED FOR ALL WELLS EXCEPT DOMESTIC WATER WELLS

Purpose of Monitoring Well: [ ] To comply with City or County Hazardous Materials Storage Permit Ordinance X Exploration/Investigation Extraction/Recovery

[ ] Other (specify): _____

NAME OF BUSINESS AT WELL SITE: FMC

If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? [ ] Yes [ ] No

If yes, give name of City or County _____

Pilko & Associates, Inc.
Consultant's Name (company)

6351 Owensmouth Ave., Ste 202
Address

Woodland Hills, CA 91367
City, State, Zip

(818) 716-9311
Telephone No.

Type of monitoring device: [X] Groundwater [ ] Vadose

Monitoring well use: [ ] Depth [ ] Quality [X] Depth and Quality [ ] Chloride [ ] Depth and Chloride

Vadose device installation: [ ] Vapor [ ] Interface [ ] Suction Lysimeter

Signature of Responsible Professional

Daryl E Carlson EG 000787

Registration No. Civil Engineer OR Certificate No. Engineering Geologist

TOPOGRAPHIC FEATURES

Is well to be constructed: [ ] In a public sidewalk [ ] In a public road [ ] On public property [X] On private property

Within 50 ft. of the top of a creek bank	[ ] Yes	[X] No	Within 50 ft. of any existing well	[ ] Yes	[X] No
Within 50 ft. of a sanitary sewer	[X] Yes	[ ] No	Within 150 ft. of a cesspool or seepage pit	[ ] Yes	[X] No
Within 100 ft. of a pit privy, septic tank, leachfield	[ ] Yes	[X] No	Plot well location on reverse side of this application		

CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

Signature of Well Owner/Agent — Date: 4/17/89

Signature of Driller/Agent — Date: 4/17/89

MONITORING WELL PLAN APPROVAL
City/County: _____
Approved by: _____
Date: _____

IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 265-2600, Ext. 380. For weekends, holidays, after hours call (408) 395-8121 or (408) 265-2605.

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, California 95118
Telephone (408) 265-2600

WELL CONSTRUCTION APPLICATION

FC 158 (02-06-86) (DP 4-901)

TO BE COMPLETED BY DISTRICT

Well Permit No.: 89W0695	Date Issued: 4-20-89	Well Registration No.: Well not installed
Water Quality Zone: 1 / Expiration Date: 7-20-89	Coordinates of Well "X" ____ "Y" ____	Driller's Log No.: 318486

TO BE COMPLETED BY OWNER AND DRILLER

Property Owner: FMC	Well Owner (if different): Same	Drilling Co.: All Terrain
Address: 1125 Coleman Ave.	ADDRESS OF WELL SITE: 651 Martin Ave.	Driller's Contractors License Number (CSLB REQ'D): C57-437836
City, State, Zip: San Jose, CA 95110	City, State, Zip: Santa Clara, CA 95050	Address: 2789 Liberty Lane
Telephone No.: 408 289-4050	Telephone No.: None	City, State, Zip: Roseville, CA 95678
Assessor's Parcel No. of Well Site: Book ~~224-236~~ Page ~~04-237~~ Parcel 224-04-071	Owner's/Consultant's Well No.: MW-7	Telephone No.: 916 881-0222

Estimated depth of completed well: [X] Less than 50 ft. [ ] 50 to 300 ft. [ ] Over 300 ft.

Water Quality Zone No.: _____ (See Fig. 1 SCVWD Construction Standards. Use "BR" if bedrock).

Purpose of Well: [ ] Domestic [ ] Municipal/Industrial [ ] Agricultural *[X] Monitoring [ ] Cathodic Protection

*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive water samples for analyses. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.

THIS SECTION TO BE COMPLETED FOR ALL WELLS EXCEPT DOMESTIC WATER WELLS

Purpose of Monitoring Well: [ ] To comply with City or County Hazardous Materials Storage Permit Ordinance [X] Exploration or standard [ ] Extraction/Recovery [ ] Other (specify): _____

NAME OF BUSINESS AT WELL SITE: FMC

If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? [ ] Yes [ ] No

If yes, give name of City or County _____

Pilko & Associates, Inc.
Consultant's Name (company)

6351 Owensmouth Ave., Ste. 202
Address

Woodland Hills, CA 91367
City, State, Zip

(818)716-9311
Telephone No.

Type of monitoring device: [X] Groundwater [ ] Vadose

Monitoring well use: [ ] Depth [ ] Quality [X] Depth and Quality [ ] Chloride [ ] Depth and Chloride

Vadose device installation: [ ] Vapor [ ] Interface [ ] Suction Lysimeter

Signature of Responsible Professional

Daniel E Carlson EG000787

Registration No. Civil Engineer OR Certificate No. Engineering Geologist

TOPOGRAPHIC FEATURES

Is well to be constructed: [ ] In a public sidewalk [ ] In a public road [ ] On public property [X] On private property

Within 50 ft. of the top of a creek bank	[ ] Yes	[X] No	Within 50 ft. of any existing well	[ ] Yes	[X] No
Within 50 ft. of a sanitary sewer	[ ] Yes	[X] No	Within 150 ft. of a cesspool or seepage pit	[ ] Yes	[X] No
Within 100 ft. of a pit privy, septic tank, leachfield	[ ] Yes	[X] No	Plot well location on reverse side of this application		

CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

Signature of Well Owner/Agent — Date: 4/17/89

Signature of Driller/Agent — Date: 4/17/89

MONITORING WELL PLAN APPROVAL
City/County: _____
Approved by: _____
Date: _____

IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 265-2600, Ext. 380. For weekends, holidays, after hours call (408) 395-8121 or (408) 265-2605.

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, California 95118
Telephone (408) 265-2600

WELL CONSTRUCTION APPLICATION

FC 158 (02-06-86) (DP 4-901)

TO BE COMPLETED BY DISTRICT

Well Permit No.: 89W0694	Date Issued: 4-20-89	Well Registration No.: Well not installed
Water Quality Zone: 1 / Expiration Date: 7-20-89	Coordinates of Well "X" "Y"	Driller's Log No.: 318485

VOID

TO BE COMPLETED BY OWNER AND DRILLER

Property Owner: FMC	Well Owner (if different): Same	Drilling Co.: All Terrain
Address: 1125 Coleman Ave.	ADDRESS OF WELL SITE: 651 Martin Ave.	Driller's Contractors License Number (C57 REQ'D): C57-437836
City, State, Zip: San Jose, CA 95110	City, State, Zip: Santa Clara, CA 95050	Address: 2789 Liberty Lane
Telephone No.: 408 289-4050	Telephone No.: None	City, State, Zip: Roseville, CA 95678
Assessor's Parcel No. of Well Site: Book ~~[illegible]~~ Page ~~[illegible]~~ Parcel 224-04-071	Owner's/Consultant's Well No.: MW-6	Telephone No.: 916 771-0222

Estimated depth of completed well: [X] Less than 50 ft. [ ] 50 to 300 ft. [ ] Over 300 ft.

Water Quality Zone No.: _____ (See Fig. 1 SCVWD Construction Standards. Use "BR" if bedrock).

Purpose of Well: [ ] Domestic [ ] Municipal/Industrial [ ] Agricultural [X] Monitoring* [ ] Cathodic Protection

*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive water samples for analyses. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.

THIS SECTION TO BE COMPLETED FOR ALL WELLS EXCEPT DOMESTIC WATER WELLS

Purpose of Monitoring Well: [ ] To comply with City or County Hazardous Materials Storage Permit Ordinance [X] Exploratory or studies [ ] Extraction/Recovery [ ] Other (specify): _____

NAME OF BUSINESS AT WELL SITE: FMC

If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? [ ] Yes [ ] No

If yes, give name of City or County: Pilko & Associates, Inc.

Consultant's Name (company): 6351 Owensmouth Ave., Ste. 202

Address: Woodland Hills, CA 91367

City, State, Zip: (818) 716-9311

Telephone No.

Type of monitoring device: [X] Groundwater [ ] Vadose

Monitoring well use: [ ] Depth [ ] Quality [X] Depth and Quality [ ] Chloride [ ] Depth and Chloride

Vadose device installation: [ ] Vapor [ ] Interface [ ] Suction Lysimeter

Signature of Responsible Professional: Darryl E. Carlson

Registration No. Civil Engineer OR Certificate No. Engineering Geologist: EG 000787

TOPOGRAPHIC FEATURES

Is well to be constructed: [ ] In a public sidewalk [ ] In a public road [ ] On public property [X] On private property

Within 50 ft. of the top of a creek bank	[ ] Yes	[X] No	Within 50 ft. of any existing well	[ ] Yes	[X] No
Within 50 ft. of a sanitary sewer	[ ] Yes	[X] No	Within 150 ft. of a cesspool or seepage pit	[ ] Yes	[X] No
Within 100 ft. of a pit privy, septic tank, leachfield	[ ] Yes	[X] No	Plot well location on reverse side of this application		

CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

Signature of Well Owner/Agent: Rod Kiew — Date: 4/17/89

Signature of Driller/Agent: Rod Kiew — Date: 4/17/89

MONITORING WELL PLAN APPROVAL

City/County: _____

Approved by: _____

Date: _____

IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 265-2600, Ext. 380. For weekends, holidays, after hours call (408) 395-8121 or (408) 265-2605.

Santa Clara Valley Water District

WELL INSPECTION COMPLETION NOTICE

FC 158A (02-06-86) (DP 4-901)

FROM: Groundwater Protection Section

DATE: 5/15/89

Well Permit No. 89W0692

Well/Boring No. MW4 CONSTRUCTED

Inspector J. WHITE

Date of Inspection 4/27/89

Well Owner FMC

Address of Well Site 651 MARTIN AVE

City or County SANTA CLARA

Drilling Co. ALL TERRAIN

Consultant PIRKO & ASSOCIATES

Purpose of Well:

- ☐ Domestic
- ☐ Agricultural
- ☐ Municipal/Industrial
- ☐ Cathodic Protection

*Monitoring Well Use

- *☐ Vadose
- *☒ Groundwater
- *☐ Other

1. Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
2. Depth of Surface Annular Seal = 15.5

Comments: TD 28

SAND TO 15.5 GROUT 13.4 TO 8

BNITE 15.5 TO 13.4

Distribution: White = Groundwater Protection Sect. Pink = Cities or County (w/attach) Canary = Permittee Goldenrod = Water Revenue

Santa Clara Valley Water District

WELL INSPECTION COMPLETION NOTICE

FC 158A (02-06-86) (DP 4-901)

FROM: Groundwater Protection Section

DATE: 4/27/89

Well Permit No. 89W0670

Well/Boring No. MW-2 S [illegible]

Inspector P. Thier [illegible]

Date of Inspection 4/26/89

Well Owner F.M.C.

Address of Well Site 651 Martin Ave

City or County City of Santa Clara

Drilling Co.

Consultant Eiko & Associates

Purpose of Well:

- ☐ Domestic
- ☐ Agricultural
- ☐ Municipal/Industrial
- ☐ Cathodic Protection

*Monitoring Well Use

- *☐ Vadose
- *☒ Groundwater
- *☐ Other

1. Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
2. Depth of Surface Annular Seal = 12.1

Comments: 4" PVC ; Hollow Stem ; TD 20.5 ; screen 5.5 to 15.5
Cont 12.1 to 7.3

Distribution: White = Groundwater Protection Sect. Pink = Cities or County (w/attach) Canary = Permittee Goldenrod = Water Revenue

Santa Clara Valley Water District

WELL INSPECTION COMPLETION NOTICE

FC 158A (02-06-86) (DP 4-901)

FROM: Groundwater Protection Section

DATE: 4/27/89

Well Permit No. 89W0689

Well/Boring No. MW-1 [illegible]

Inspector F. Thomas

Date of Inspection 4/26/89

Well Owner F.M.C.

Address of Well Site 651 Martin Ave

City or County City of Santa Clara

Drilling Co. All Terrain

Consultant Pike & Associates

Purpose of Well:

- ☐ Domestic
- ☐ Agricultural
- ☐ Municipal/Industrial
- ☐ Cathodic Protection

*Monitoring Well Use

- *☐ Vadose
- *☒ Groundwater
- *☐ Other

1. Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
2. Depth of Surface Annular Seal = 13'

Comments: 4" PVC ; Hollow Stem ; TD 25.5 screen 25.5 to 5.5 bent 13 to 11

Distribution: White = Groundwater Protection Sect. Pink = Cities or County (w/attach) Canary = Permittee Goldenrod = Water Revenue

FMC Corporation

Ordnance Division
1125 Coleman Avenue Box 367
San Jose California 95103
(408) 289 0111

FMC

October 5, 1983

City of Santa Clara
Fire Department
777 Benton Street
Santa Clara, CA 95050

Attention: Mr. Robert Campbell

Dear Mr. Campbell:

Enclosed are the Hazardous Materials Inventory Statements required by Santa Clara City Ordinance No. 1470. Also included are facility maps for all the FMC Santa Clara facilities and a list of safety equipment and materials available. In particular, inventory statements are provided for the following facility addresses:

1) 328 West Brokaw Road - Plant 12, Maintenance Drum Storage Area, Hazardous Waste Container Storage Area.

2) 333 West Brokaw Road - Plant 22, Armor Building, Plant 22 Stores.

3) 340 West Brokaw Road - Welding School.

4) 364 Reed Street - Reproduction.

5) 555 Reed Street - Reed Street Warehouse.

6) 1189 Campbell Avenue - PM Warehouse.

7) 651 Martin Avenue.

Safety equipment for the above facilities has been ordered. Additional safety equipment and spill response materials are available at our main plant site at 1125 Coleman Avenue.

Material Safety Data Sheets have not been included with the Inventory Statements. Any MSDS's which you require will be supplied upon your request. We are able to supply MSDS's in microfiche form and in paper form.

Any questions, comments, or correspondence relating to hazardous materials storage and Ordinance No. 1470 should be directed to me at the letterhead address and telephone number 289-4285.

Very truly yours,

Howard L. Hansen

Howard L. Hansen
Manager, Environmental Engineering
and Industrial Hygiene

HLH:lr

Enc:

#8355

SAFETY EQUIPMENT AND MATERIALS INVENTORY

BUSINESS NAME: FMC CORP. BUSINESS ADDRESS: 651 Martin Ave. S.C.

Any business storing or using hazardous materials must provide on-site materials and equipment necessary for containment/neutralization, including safety equipment used by personnel. The equipment shall be compatible with the Santa Clara Fire Department such that in the event of an emergency it can be more easily used by all personnel.

An inventory of the above items shall be provided to the Fire Department using the form below. This inventory should be submitted with the chemical inventory.

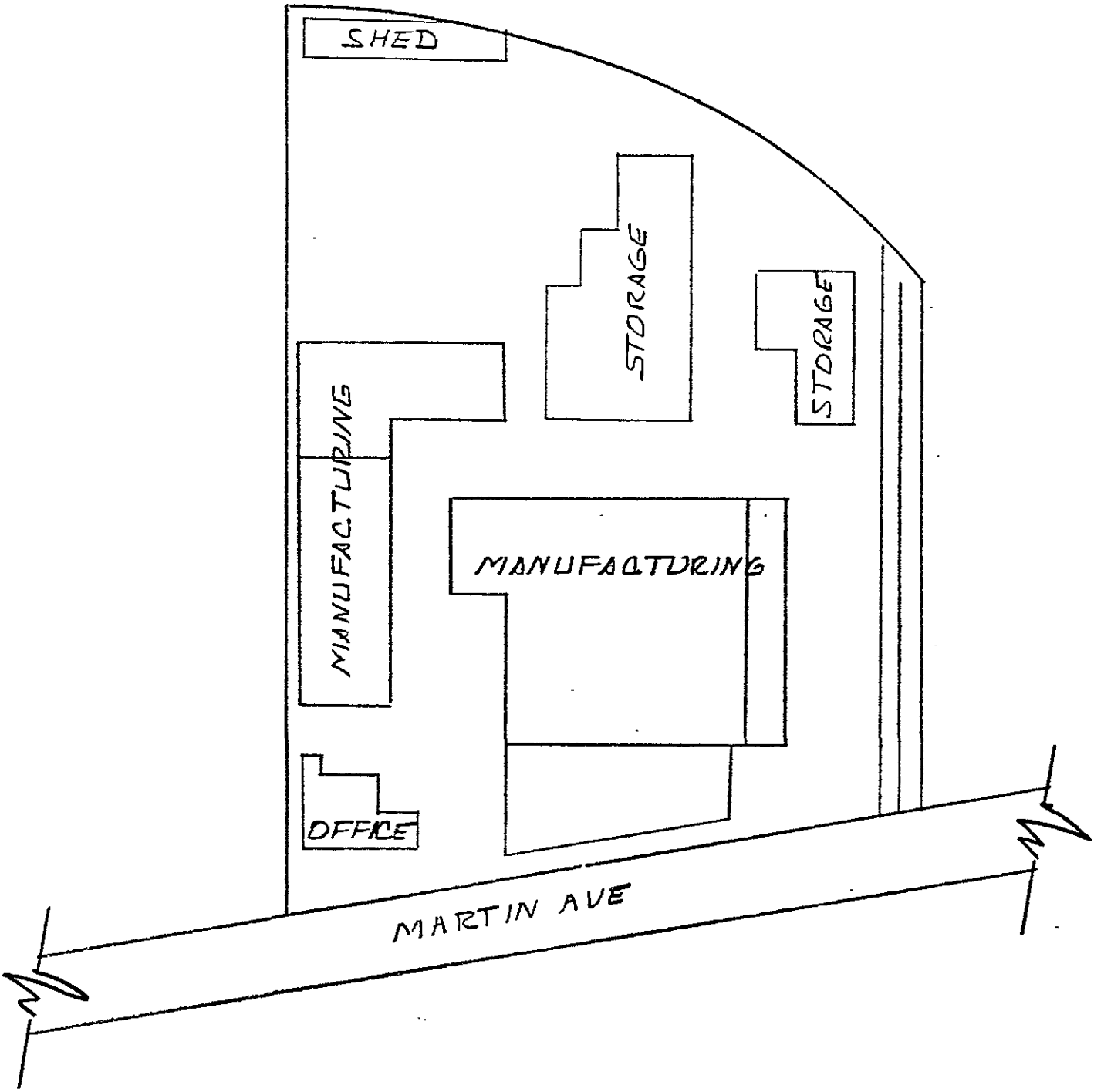
Safety Equipment	Brand/Model	Quantity
Self-Contained Breathing Apparatus	None	
Chemical Suits	None	
Chemical Detection Instruments	None	
Weather Instruments	None	
Other:	None	

Materials		
Absorbents	Rice Hull Ash	400#
Neutralizers		Ø
Foam		Ø
Empty Drums		3 @ 55 Gal.
Other:		Ø

FMC CORPORATION
ORDNANCE DIVISION
HAZARDOUS MATERIALS INVENTORY STATEMENT
****

FACILITY: MARTIN AVENUE
FACILITY ADDRESS: 651 MARTIN AVENUE, SANTA CLARA, CAL.
DATE: SEPTEMBER 21, 1983

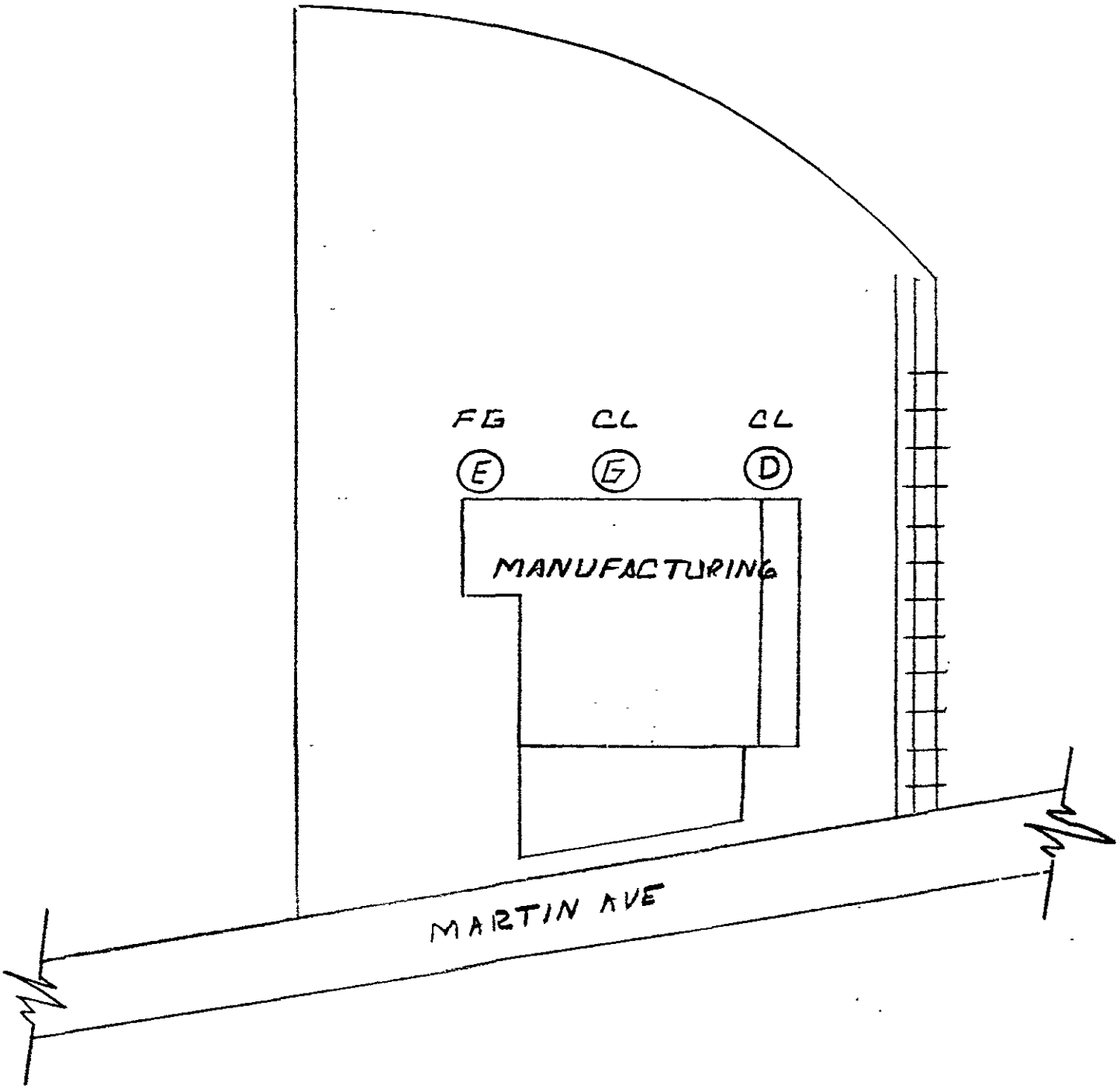
D.O.T. CLASS	UN,NA# EPA WASTE#	CHEMICAL NAME or MAJOR CONSTITUENT	COMMON/TRADE NAME, MANUFACTURER	MSDS (Y/N)	QUANTITY RANGE
AREA A					
CL	UN1270	OIL,30WT.			3
CL	UN1223	DIESEL FUEL			2
FL	UN1263	HYDROCARB.SOLVENTS	PAINT WASTES		3
	F017				
AREA B					
CL	UN1268	PETROLEUM DIST.	PAINT THINNER		4
FL	UN1263	HYDROCARB.SOLVENTS	PAINT		4
ORM-E	UN1593	METHYLENE CHLORIDE	X		1
AREA C					
CL	UN1270	OIL, 30 WT.	MOTOR OIL		1
AREA D					
CL	UN9189	PETR. OIL, 270	SPRAY MIST COOLANT		3
AREA E					
FG	UN1011	BUTANE			4
AREA F					
CL	UN1270	OIL,30WT.	MOTOR OIL		3
AREA G					
CL	UN1270	OIL,30WT.	MOTOR OIL		3



FMC CORP

651 MARTIN AVE

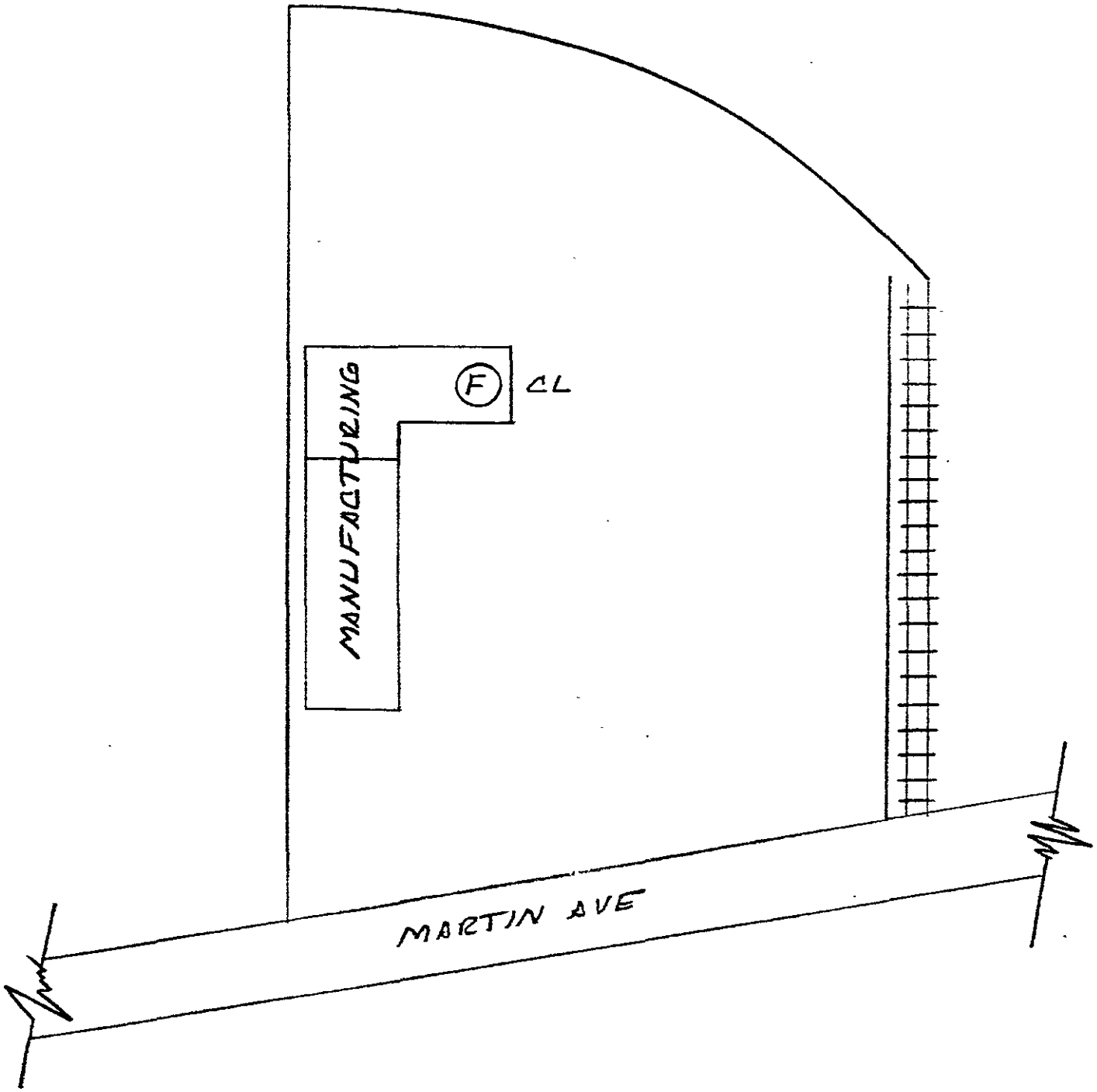
SANTA CLARA, CA.



FMC CORP

651 MARTIN AVE

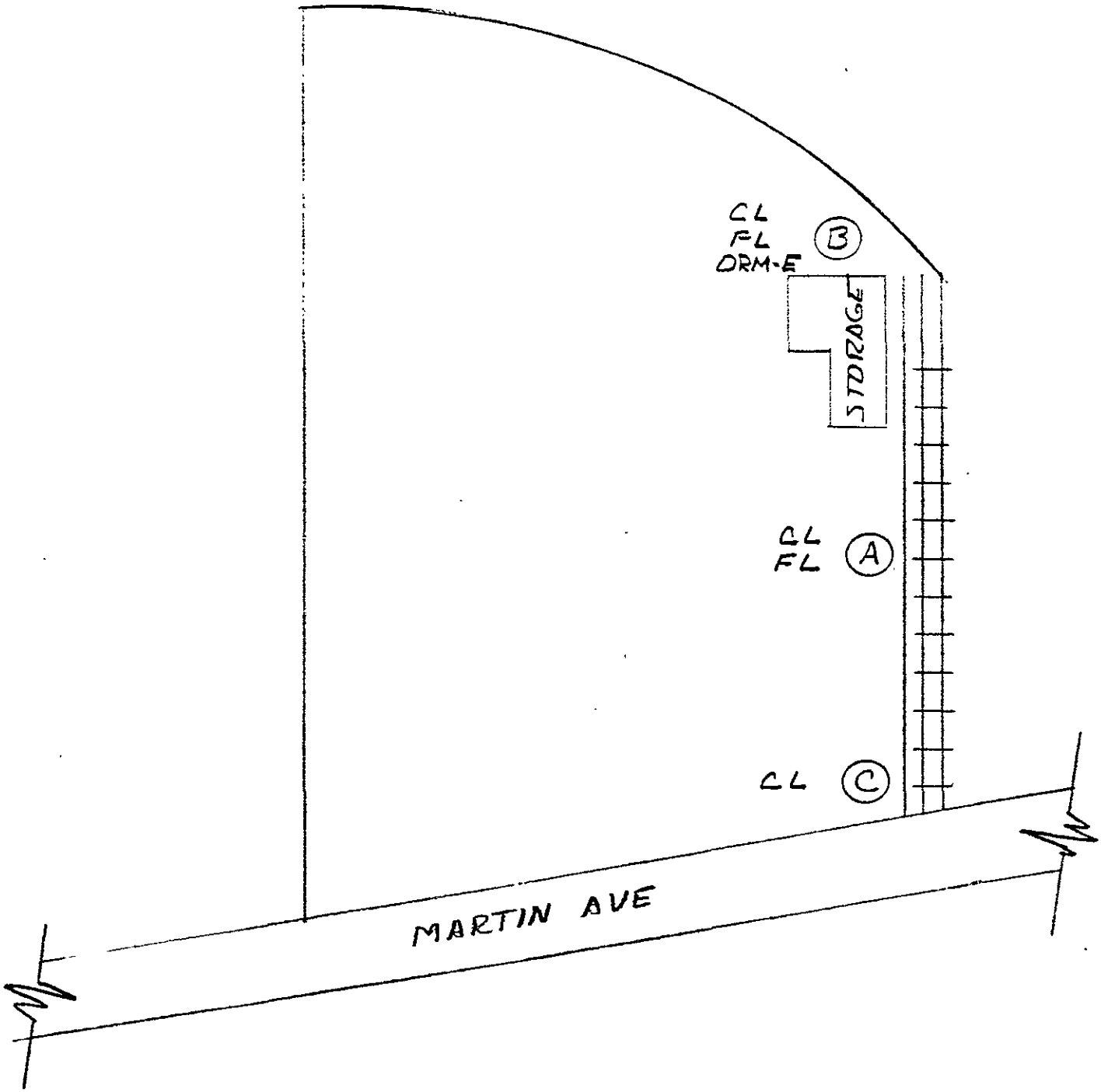
SANTA CLARA, CA.



FMC CORP

651 MARTIN AVE

SANTA CLARA, CA.



FMC CORP

651 MARTIN AVE

SANTA CLARA, CA.

651 MARTIN AVE, SANTA CLARA

GLOBAL
GEOCHEMISTRY
CORPORATION

TELEX. 4720127
FAX: (818) 992-8940

6919 ETON AVENUE • CANOGA PARK • CALIFORNIA 91303-2194 (818) 992-4103

Client: Pilko & Associate, Inc Date: 05-05-89

ANALYSIS OF PURGEABLE HALOCARBONS & TOTAL PETROLEUM HYDROCARBONS IN SOIL SAMPLES

1. Sample Background.

Fourteen soil (eight for holding purpose) samples were collected by Pilko & Associate.Inc. on 04-27-89, received by Global Geochemistry Corp. on 04-28-89 and analyzed on 05-03-89. Samples were stored at 4 °C prior to analysis.

2. Summary of Analytical Procedures.

Soil samples were analyzed for purgeable halocarbons by EPA 8010 analytical method by using GC/MS & purge and trap. The total petroleum hydrocarbons were analyzed by EPA 418.1 analytical methods.

3. Results:

GGC#:	5677	5677(D)	5678	5679	DL
Sample I.D.	B2/1	B2/1	B2/5	B6/1	
		Concentration ppb			
Compound					
Chloromethane	nd	nd	nd	nd	10
Bromomethane	nd	nd	nd	nd	10
Vinyl Chloride	nd	nd	nd	nd	10
Chloroethane	nd	nd	nd	nd	10
Methylene Chloride	nd	nd	nd	nd	5
1,1-Dichloroethene	nd	nd	nd	nd	5
Trans-1,2-Dichloroethene	nd	nd	nd	nd	5
Chloroform	nd	nd	nd	nd	5
1,2-Dichloroethane	nd	nd	nd	nd	5
1,1,1-Trichloroethane	14.8	20.6	nd	nd	5
Carbon Tetrachloride	nd	nd	nd	nd	5
Bromodichloromethane	nd	nd	nd	nd	5
1,2-Dichloropropane	nd	nd	nd	nd	5
Cis-1,3-Dichloropropene	nd	nd	nd	nd	5
Trichloroethylene	nd	nd	nd	nd	5
Dibromochloromethane	nd	nd	nd	nd	5
1,1,2-Trichloroethane	nd	nd	nd	nd	5
Tran-1,3-Dichloropropene	nd	nd	nd	nd	5
Bromoform	nd	nd	nd	nd	5
Tetrachloroethylene	nd	nd	nd	nd	5
1,1,2,2-Tetrachloroethane	nd	nd	nd	nd	5
Chlorobenzene	nd	nd	nd	nd	5
1,3-Dichlorobenzene	nd	nd	nd	nd	5
1,2-Dichlorobenzene	nd	nd	nd	nd	5
1,4-Dichlorobenzene	nd	nd	nd	nd	5

ATTACHMENT 1

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/g) ppm
5599	MW2/4	nd
5600	MW3/1	nd
5601	MW3/4	nd
Detection Limit:		5

Analyst [illegible] Supervisor G. R. Kaplan

GLOBAL
*GEO*CHEMISTRY
CORPORATION

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6919 ETON AVENUE • CANOGA PARK • CALIFORNIA 91303-2194 (818) 992-4103

Client: Pilko & Associate, Inc Date:05-08-89

ANALYSIS OF PURGEABLE HALOCARBONS, TOTAL PETROLEUM HYDROCARBONS & VOLATILE AROMATIC HYDROCARBONS & METALS IN SOIL & WATER SAMPLES

1. Sample Background.

Eleven soil & six water samples were collected by Pilko & Associate,Inc. on 04-28-89, received by Global Geochemistry Corp. on 05-01-89 and analyzed on 05-05-89. Samples were stored at 4 ^{o}C prior to analysis.

2. Summary of Analytical Procedures.

Samples were analyzed for purgeable halocarbons by EPA 8010 analytical method by using GC/MS & purge and trap. The total petroleum hydrocarbons were analyzed by EPA 418.1 & 8015 analytical methods and the volatile aromatic hydrocarbons were analyzed by EPA 8020 methods.

3. Results:

GGC#:	5661	5662	5663	5664	DL
Sample I.D.	MW-2	F.Blank	B8/1	B8/5	
		Concentration	ppb		
Compound					
Chloromethane	nd	nd	nd	nd	10
Bromomethane	nd	nd	nd	nd	10
Vinyl Chloride	nd	nd	nd	nd	10
Chloroethane	nd	nd	nd	nd	10
Methylene Chloride	nd	nd	nd	nd	5
1,1-Dichloroethene	nd	nd	nd	nd	5
Trans-1,2-Dichloroethene	nd	nd	nd	nd	5
Chloroform	nd	nd	nd	nd	5
1,2-Dichloroethane	nd	nd	nd	nd	5
1,1,1-Trichloroethane	nd	nd	5.5	5.7	5
Carbon Tetrachloride	nd	nd	nd	nd	5
Bromodichloromethane	nd	nd	nd	nd	5
1,2-Dichloropropane	nd	nd	nd	nd	5
Cis-1,3-Dichloropropene	nd	nd	nd	nd	5
Trichloroethylene	nd	nd	nd	nd	5
Dibromochloromethane	nd	nd	nd	nd	5
1,1,2-Trichloroethane	nd	nd	nd	nd	5
Tran-1,3-Dichloropropene	nd	nd	nd	nd	5
Bromoform	nd	nd	nd	nd	5
Tetrachloroethylene	nd	nd	nd	nd	5
1,1,2,2-Tetrachloroethane	nd	nd	nd	nd	5
Chlorobenzene	nd	nd	nd	nd	5
1,3-Dichlorobenzene	nd	nd	nd	nd	5
1,2-Dichlorobenzene	nd	nd	nd	nd	5
1,4-Dichlorobenzene	nd	nd	nd	nd	5

EPA 8015 (soil sample)

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/g) ppm
5665	B-11/1	5
5666	B-11/2	15
5667	B-11/3	152
5668	B-12/1	6
5669	B-12/2	7
5670	B-12/3	33
Detection Limit:		5

EPA 8015 (Water sample)

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/Liter) ppb
* 5673	MW-4	181479
5674	F.Blank	nd
Detection Limit:		50

EPA 418.1 (soil Samples)

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/g) ppm
Method Blank		nd
5663	B-8/1	nd
5664	B-8/5	nd
5665	B-11/1	nd
5667	B-11/3	14
5668	B-12/1	13
5670	B-12/3	8
Detection Limit:		5

EPA 418.1 (water samples)

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/Liter) ppb
Method Blank		nd
* 5661	MW-2	1200
5662	Field Blank	nd
5671	MW-1	nd
5672	MW-3	nd
* 5673	MW-4	2400
Detection Limit:		50

EPA 8020 (soil sample)

GGC#	Sample I.D.	Benzene	Toluene	Ethyl Benzene	Total Xylenes
		Concentration (ug/Kg) ppb			
5665	B-11/1	5	13	nd	94
5666	B-11/2	11	170	164	303
5667	B-11/3	86	588	1379	3008
5668	B-12/1	<5	116	6	47
5669	B-12/2	31	147	23	108
5670	B-12/3	360	1407	281	685
Detection Limit:			5		

EPA 602 (Water sample)

GGC#	Sample I.D.	Benzene	Toluene	Ethyl Benzene	Total xylenes
		Concentration (ug/Liter) ppb			
* 5673	MW-4	14884	24894	3377	15610
5674	F.Blank	nd	nd	nd	nd
Detection Limit:			0.5		

Metals:

GGC#	Sample I.D.	Pb	Fe	Zn	Cr	Cd
			Concentration	(ug/Liter)	ppb	
5661	MW-2	nd	1916	458.5	nd	nd
5671	MW-1	nd	5466	34.4	nd	nd
5672	MW-3	nd	3386	703.8	nd	nd
5673	MW-4	nd	2495	427.7	nd	nd
5675	F.Blank	nd	nd	nd	nd	nd
Detection Limit:		40	40	1.0	0.7	2.0

Analyst Ren-Pi Lee Supervisor Floyd S. Eyand

GLOBAL
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CORPORATION

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FAX: (818) 992-8940

6919 ETON AVENUE • CANOGA PARK • CALIFORNIA 91303-2194 (818) 992-4100

Client: Pilko & Associate, Inc Date: 05-10-89

ANALYSIS OF PURGEABLE HALOCARBONS, TOTAL PETROLEUM HYDROCARBONS & METALS IN SOIL SAMPLES

1. Sample Background.

Fifteen soil samples were collected by Pilko & Associate, Inc. on 04-27-89, received by Global Geochemistry Corp. on 05-01-89 and analyzed on 05-05-89. Samples were stored at 4 °C prior to analysis.

2. Summary of Analytical Procedures.

Samples were analyzed for purgeable halocarbons by EPA 8010 analytical method by using GC/MS & purge and trap. The total petroleum hydrocarbons were analyzed by EPA 418.1 analytical methods.

3. Results:

GGC#:	5688	5689	DL
Sample I.D.	B-5/1	B-5/5	
		Concentration	ppb
Compound			
Chloromethane	nd	nd	10
Bromomethane	nd	nd	10
Vinyl Chloride	nd	nd	10
Chloroethane	nd	nd	10
Methylene Chloride	nd	nd	5
1,1-Dichloroethene	nd	nd	5
Trans-1,2-Dichloroethene	nd	nd	5
Chloroform	nd	nd	5
1,2-Dichloroethane	nd	nd	5
1,1,1-Trichloroethane	nd	nd	5
Carbon Tetrachloride	nd	nd	5
Bromodichloromethane	nd	nd	5
1,2-Dichloropropane	nd	nd	5
Cis-1,3-Dichloropropene	nd	nd	5
Trichloroethylene	nd	nd	5
Dibromochloromethane	nd	nd	5
1,1,2-Trichloroethane	nd	nd	5
Tran-1,3-Dichloropropene	nd	nd	5
Bromoform	nd	nd	5
Tetrachloroethylene	nd	nd	5
1,1,2,2-Tetrachloroethane	nd	nd	5
Chlorobenzene	nd	nd	5
1,3-Dichlorobenzene	nd	nd	5
1,2-Dichlorobenzene	nd	nd	5
1,4-Dichlorobenzene	nd	nd	5

EPA 418.1(soil sample)

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/g) ppm
5684	B-3/1	5
5685	B-3/5	nd
5686	B-4/1	nd
5687	B-4/5	nd
5688	B-5/1	nd
5689	B-5/5	nd
Detection Limit:		5

Metals:

GGC#	Sample I.D.	Pb	Fe	Zn	Cr	Cd
			Concentration (ug/g)		ppm	
5684	B-3/1	16.3	16266.2	58.6	19.1	0.8
5685	B-3/5	8.4	18823.9	43.3	34.0	0.4
5686	B-4/1	18.0	22037.5	74.3	33.0	0.6
5687	B-4/5	8.1	20122.8	45.7	37.0	0.3
Detection Limit:		2.0	2.0	0.1	0.3	0.1

Analyst Ru-Pe Lee Supervisor J. R. Kaplan

GLOBAL
GEOCHEMISTRY
CORPORATION

TELEX: 4720127
FAX: (818) 992-8940

6919 ETON AVENUE • CANOGA PARK • CALIFORNIA 91303-2194 (818) 992-4103

Client: Pilko & Associate, Inc Date: 05-05-89

ANALYSIS OF PURGEABLE HALOCARBONS, POLYCHLORINATED BIPHENYLS, TOTAL PETROLEUM HYDROCARBONS, VOLATILE AROMATICS ORGANICS & TOTAL LEAD IN SOIL SAMPLES

1. Sample Background.

Sixteen soil samples were collected by Pilko & Associate, Inc. on 04-27-89, received by Global Geochemistry Corp. on 04-28-89 and analyzed on 05-03-89. Samples were stored at 4 ^{o}C prior to analysis.

2. Summary of Analytical Procedures.

Soil samples were analyzed for purgeable halocarbons by EPA 8010 analytical method by using GC/MS & purge and trap. The total petroleum hydrocarbons and volatile aromatics hydrocarbons were analyzed by EPA 418.1, 8015 and 8020 analytical methods. The polychlorinated biphenyls were analyzed by EPA 8080 methods & the total lead was analyzed by EPA 7420 analytical method.

3. Results:

GGC#:	5624	DL
Sample I.D.	B-10/5	
	Concentration ppb	
Compound		
Chloromethane	nd	10
Bromomethane	nd	10
Vinyl Chloride	nd	10
Chloroethane	nd	10
Methylene Chloride	nd	5
1,1-Dichloroethene	nd	5
Trans-1,2-Dichloroethene	nd	5
Chloroform	nd	5
1,2-Dichloroethane	nd	5
1,1,1-Trichloroethane	nd	5
Carbon Tetrachloride	nd	5
Bromodichloromethane	nd	5
1,2-Dichloropropane	nd	5
Cis-1,3-Dichloropropene	nd	5
Trichloroethylene	nd	5
Dibromochloromethane	nd	5
1,1,2-Trichloroethane	nd	5
Tran-1,3-Dichloropropene	nd	5
Bromoform	nd	5
Tetrachloroethylene	nd	5
1,1,2,2-Tetrachloroethane	nd	5
Chlorobenzene	nd	5
1,3-Dichlorobenzene	nd	5
1,2-Dichlorobenzene	nd	5
1,4-Dichlorobenzene	nd	5

EPA 418.1

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/g) ppm
Method Blank		nd
5690	B-9/1	6
5691	B-9/5	nd
5692	B-10/1	5
5694	B-10/5	nd
Detection Limit:		5

EPA 8015

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/g) ppm
Method Blank		nd
5693	B-10/4	166
5695	MW-4/3	14493
5696	MW-4/5	1879
5697	MW-4/6	592
Detection Limit:		5

EPA 8020

GGC#	Sample I.D.	Benzene	Toluene	Ethyl Benzene	Total xylenes
		Concentration (ug/Kg)			ppb
Method Blank		nd	nd	nd	nd
5693	B-10/4	192	3188	2020	9656
5695	MW-4/3	7767	245460	105828	1327952
5696	MW-4/5	1108	46623	22750	127772
5697	MW-4/6	566	17721	9713	51577
Detection Limit:			5		

EPA 8080

GGC#	Sample I.D.	Polychlorinated Biphenyls Concentration (ug/g) ppm
Method Blank		nd
5695	MW-4/3	nd
Detection Limit:		0.5

EPA 7420

GGC#	Sample I.D.	Total Lead Concentration (ug/g) ppm
Method Blank		nd
5695	MW-4/3	49.0
5696	MW-4/5	10.1
5697	MW-4/6	13.4
Detection Limit :		2.0

Analyst Ru-Po Lee Supervisor

B13-17
(Second round of Sampling)
Note B13-16 at box beam machine
B17 @ Almaden pit.

GLOBAL
GEOCHEMISTRY
CORPORATION

6919 ETON AVENUE • CANOGA PARK • CALIFORNIA 91303-2194

:4720127
992-8940
(818) 992-4103

Client: Pilko & Associate, Inc Date:05-30-89

ANALYSIS OF TOTAL PETROLEUM HYDROCARBONS, METALS PH IN SOIL SAMPLES

1. Sample Background.

Twenty soil samples were collected by Pilko & Associate,Inc. on 05-25-89, received by Global Geochemistry Corp. on 05-26-89 and analyzed on 05-27-89. Samples were stored at 4 °C prior to analysis.

2. Summary of Analytical Procedures.

Samples were analyzed for total petroleum hydrocarbons by EPA 418.1 analytical methods.

3. Results:

EPA 418.1

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/g) ppm
Method Blank		ND
5937	B-13/1	21
5938	B-13/3	5
5939	B-13/4	ND
5940	B-14/1	19
5941	B-14/2	24
5942	B-14/4	ND
5943	B-15/1	14
5944	B-15/3	ND
5945	B-15/4	10
5946	B-16/1	16
5947	B-16/2	13
5948	B-16/4	20

GLOBAL
GEOCHEMISTRY
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TELEX. 4720127
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EPA 418.1

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/g) ppm
5949	B-17/1	17
5950	B-17/2	43
5951	B-17/5	ND
Detection Limit:		5

Metals:

GGC#	Sample I.D.	Pb	Zn	Cr	Cd	Fe	Cu
		Concentration (ug/g) ppm					
5950	B-17/2	19.9	100.1	48.0	1.3	36698.5	36.0
5951	B-17/5	8.1	49.6	24.9	0.3	16872.0	ND
Detection Limit:		2.0	0.1	0.3	0.1	2.0	2.0

PH (1:1 water dilution)

GGC#	Sample I.D.	PH
5950	B-17/2	7.58
5951	B-17/5	7.66

Analyst [illegible] Supervisor [illegible]

GLOBAL
GEOCHEMISTRY
CORPORATION

TELEX: 4720127
FAX: (818) 992-8940

6919 ETON AVENUE • CANOGA PARK • CALIFORNIA 91303-2194 (818) 992-4103

Client: Pilko & Associate, Inc Date: 06-01-89

ANALYSIS OF PURGEABLE HALOCARBONS, TOTAL PETROLEUM HYDROCARBONS, VOLATILE AROMATIC HYDROCARBONS & METALS IN WATER SAMPLES

1. Sample Background.

Six water samples were collected by Pilko & Associate, Inc. on 05-26-89, received by Global Geochemistry Corp. on 05-27-89 and analyzed on 05-29-89. Samples were stored at 4 °C prior to analysis.

2. Summary of Analytical Procedures.

Samples were analyzed for purgeable halocarbons by EPA 8010 analytical method by using GC/MS & purge and trap. The total petroleum hydrocarbons were analyzed by EPA 418.1 & 8015 analytical methods. The volatile aromatic hydrocarbons were analyzed by EPA 602 method.

3. Results:

GGC#:	5980	5981	5982	DL
Sample I.D.	MW-1	MW-2	MW-3	
		Concentration ppb		
Compound				
Chloromethane	nd	nd	nd	10
Bromomethane	nd	nd	nd	10
Trichlorofluoromethane	nd	nd	nd	5
Vinyl Chloride	nd	nd	nd	10
Chloroethane	nd	nd	nd	10
Methylene Chloride	nd	nd	5.5	5
1,1-Dichloroethene	nd	nd	nd	5
1,1-Dichloroethane	nd	nd	6.0	5
Trans-1,2-Dichloroethene	nd	nd	nd	5
Chloroform	nd	nd	nd	5
1,2-Dichloroethane	nd	nd	nd	5
1,1,1-Trichloroethane	5.5	8.3	nd	5
Carbon Tetrachloride	nd	nd	nd	5
Bromodichloromethane	nd	nd	nd	5
1,2-Dichloropropane	nd	nd	nd	5
Cis-1,3-Dichloropropene	nd	nd	nd	5
Trichloroethylene	nd	5.7	nd	5
Dibromochloromethane	nd	nd	nd	5
1,1,2-Trichloroethane	nd	nd	nd	5
Tran-1,3-Dichloropropene	nd	nd	nd	5
Bromoform	nd	nd	nd	5
Tetrachloroethylene	nd	nd	nd	5
1,1,2,2-Tetrachloroethane	nd	nd	nd	5
Chlorobenzene	nd	nd	nd	5
1,3-Dichlorobenzene	nd	nd	nd	5
1,2-Dichlorobenzene	nd	nd	nd	5
1,4-Dichlorobenzene	nd	nd	nd	5

GGC#:	5983	5984	5985	DL
Sample I.D.	MW-4	Blank	CMW-13	
		Concentration ppb		
Compound				
Chloromethane	nd	nd	nd	10
Bromomethane	nd	nd	nd	10
Trichlorofluoromethane	nd	nd	nd	5
Vinyl Chloride	nd	nd	nd	10
Chloroethane	nd	nd	nd	10
Methylene Chloride	nd	nd	nd	5
1,1-Dichloroethene	nd	nd	nd	5
1,1-Dichloroethane	nd	nd	nd	5
Trans-1,2-Dichloroethene	nd	nd	nd	5
Chloroform	nd	nd	nd	5
1,2-Dichloroethane	77.0	nd	nd	5
1,1,1-Trichloroethane	nd	nd	nd	5
Carbon Tetrachloride	nd	nd	nd	5
Bromodichloromethane	nd	nd	nd	5
1,2-Dichloropropane	nd	nd	nd	5
Cis-1,3-Dichloropropene	nd	nd	nd	5
Trichloroethylene	nd	nd	nd	5
Dibromochloromethane	nd	nd	nd	5
1,1,2-Trichloroethane	nd	nd	nd	5
Tran-1,3-Dichloropropene	nd	nd	nd	5
Bromoform	nd	nd	nd	5
Tetrachloroethylene	nd	nd	nd	5
1,1,2,2-Tetrachloroethane	nd	nd	nd	5
Chlorobenzene	nd	nd	nd	5
1,3-Dichlorobenzene	nd	nd	nd	5
1,2-Dichlorobenzene	nd	nd	nd	5
1,4-Dichlorobenzene	nd	nd	nd	5

EPA 418.1

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/Liter) ppb
Method Blank		nd
5980	MW-1	900
5981	MW-2	nd
5982	MW-3	nd
5983	MW-4	nd
5984	Blanks	nd
5985	CMW-13	nd
Detection Limit:		50

EPA 8015

GGC#	Sample I.D.	Total Petroleum Hydrocarbons Concentration (ug/Liter) ppb
5981	MW-2	nd
5983	MW-4	247812
5984	Blanks	nd
Detection Limit:		50

EPA 602

GGC#	Sample I.D.	Benzene	Toluene	Ethyl Benzene	Total xylenes
		Concentration (ug/Liter) ppb			
5981	MW-2	nd	nd	nd	nd
5983	MW-4	11573.4	25471.2	2783.1	15554.8
5984	Blanks	nd	nd	nd	nd
Detection Limit:			0.5		

Metals:

GGC#	Sample I.D.	Pb	Zn	Cr	Cd	Fe
		Concentration (ug/Liter) ppb				
5980	MW-1	161.9	41.9	nd	nd	1592.7
5981	MW-2	159.6	701.2	nd	nd	2130.6
5982	MW-3	247.4	914.0	nd	nd	1265.7
5983	MW-4	nd	105.9	nd	nd	863.6
5984	Blanks	nd	nd	nd	nd	261.4
Detection Limit:		40.0	1.0	6.0	2.0	40.0

Analyst _____ Supervisor _____

GLOBAL GEOCHEMISTRY CORPORATION

CHAIN OF CUSTODY RECORD

SHEET 2 OF 2

PROJ. NO.: 3017-411

PROJECT NAME: FMC - 651 MARTIN AVE.

SAMPLERS: (Signature) Ray R. Kirn

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO OF CONTAINERS	B-1/1 A&B	B-1/2 A&B	B-1/3 A&B	B-1/4 A&B	B-1/5 A&B	B-1/6 A&B	B-1/7 A ONLY	REMARKS
B-1	4/21/89	1:30P		✓	BOX BEAM	1	1					1		1 ANAL. TPH (418.1) AND CHLOR. HYD (8120) ON SAMPLE A.
														5 DAY TURNAROUND

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Ray R. Kirn	4/21/89 1:N	Darrell Yadl			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ATTACHMENT_2

GLOBAL GEOCHEMISTRY CORPORATION

CHAIN OF CUSTODY RECORD

PROJ. NO.: 3017.411

PROJECT NAME: 1051 MARTIN AVE · FMC

SAMPLERS: (Signature) Ron Kiser

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	MW-1/1 A&B	MW-1/3 A&B	MW-1/4 A ONLY	MW-1/5 A&B	MW-1/6A A&B	REMARKS
MW-1	4/25/9	7AM		✓	STORAGE TANK	1	1			1		1 ANAL TPH(418.1) AND SILICA GEL (8120) ON SAMPLE A
												5 DAY TURNAROUND

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Ron Kiser	4/25/89 12N	[illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
3017-411	FMC - 651 MARTIN AVE

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO OF CONTAINERS	TPH 418.1	Lead EPA 6010					REMARKS
B-2	4/21/4	2:00		✓	B-2/1 A & B	2	✓	✓					ANALYZE BOTH A & B
					B-2/2 A & B	2							
					B-2/3 A & B	2							
					B-2/4 A & B	2							
					B-2/5 A & B	2	✓	✓					
B-6	4/21/4	7:00		✓	B-6/1 A & B	2	✓	✓					ANALYZE BOTH A & B
					B-6/2 A & B	2							
					B-6/3 A & B	2							
					B-6/4 A & B	2							
					B-6/5 A & B	2	✓	✓					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Karl Kerr	4/21/93 10:00A				
Relinquished by: (Signature)	**Date / Time**	**Received by: (Signature)**	**Relinquished by: (Signature)**	**Date / Time**	**Received by: (Signature)**
		[illegible]			
Relinquished by: (Signature)	**Date / Time**	**Received for Laboratory by: (Signature)**	**Date / Time**	**Remarks**	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

CHAIN OF CUSTODY RECORD

PROJ. NO. 3017-411

PROJECT NAME FMC - 651 MARTIN AVE.

SAMPLERS: (Signature) Kurt L. Walker

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO OF CONTAINERS	TPH	Pb					REMARKS
B-7	4/2/	3 PM		✓	B-7/1	2	✓	✓					ANALYZE A
					B-7/2	2							
					B-7/3	2							
					B-7/4	2	✓	✓					ANALYZE A

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kurt Walker	4/28/9 10 AM				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
		Kurt Walker			
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

GLOBAL GEOCHEMISTRY CORPORATION

CHAIN OF CUSTODY RECORD

PROJ. NO.: 3017-411

PROJECT NAME: FMC-651 MARTIN AVE

SAMPLERS: (Signature) Roy C. Kiser

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH 418.1	PUP. HAL 601					REMARKS
MW-2	4/25/89	1PM		✓	MW-2/1 A & B	2	✓	✓					ANALYZE "A" SAMPLE
					MW-2/2 A & B	2							
					MW-2/3 A & B	2							
					MW-2/4 A & B	2	✓	✓					ANALYZE "A" SAMPLE
					MW 2/5 A & B	2							
					MW-2/6 A & B	2							
													5 DAY TURNAROUND

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Roy C. Kiser	4/26/89 11:31P	Kim Wake			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

GLOBAL GEOCHEMISTRY CORPORATION

CHAIN OF CUSTODY RECORD

PROJ. NO.: 3017-411

PROJECT NAME: FMC-651 MARTIN AVE

SAMPLERS: (Signature) Roy C. Kisen

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO OF CONTAINERS	TPH 418.1	PUP. HAL 601					REMARKS
MW-2	4/25/89	1PM		✓	MW-2/1 A & B	2	✓	✓					ANALYZE "A" SAMPLE
					MW-2/2 A & B	2							
					MW-2/3 A & B	2							
					MW-2/4 A & B	2	✓	✓					ANALYZE "A" SAMPLE
					MW 2/5 A & B	2							
					MW-2/6 A & B	2							
													5 DAY TURNAROUND

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Roy C. Kisen	4/26/89 11:31P	Kim Yelke			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

GLOBAL GEOCHEMISTRY CORPORATION

CHAIN OF CUSTODY RECORD

PROJ. NO.: 3017 411

PROJECT NAME: FMC - 651 MARTIN AVE

SAMPLERS: (Signature) [signature]

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH 418.1	Pb, Cd, Cr, Zn					REMARKS
B-3	1/26/9	1:30P		✓	B-3/1 A & B	2	✓	✓					ANALYZE SAMPLE A
					B-3/2 A & B	2							
					B-3/3 A & B	2							
					B-3/4 A & B	2							
					B-3/5 A & B	2	✓	✓					ANALYZE SAMPLE A
B-4	1/26/9	2:00P			B-4/1 A & B	2	✓	✓					ANALYZE SAMPLE A
					B-4/2 A & B	2							
					B-4/3 A & B	2							
					B-4/4 A & B	2							
					B-4/5 A & B	2	✓	✓					ANALYZE SAMPLE A
													5 DAY TURNAROUND

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	1/27/9 5 PM	[signature]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

GLOBAL GEOCHEMISTRY CORPORATION

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
3017-411	FMC - 651 MARTIN AVE

SAMPLERS: (Signature) [illegible]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH/BTXE 8015	METAL - TOTAL LEAD	PESTICIDES 8010				REMARKS
MW-1	4/27/87	10 AM		✓	MW-1/1 A & B	2							
					MW-1/2 A & B	2							
					MW-1/3 A & B	2	✓	✓	✓				
					MW-1/4 A & B	2							
					MW-1/5 A & B	2	✓	✓					
					MW-1/6 A & B	2	✓	✓					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	4/27/87 5 PM	[illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

GLOBAL GEOCHEMISTRY CORPORATION

CHAIN OF CUSTODY RECORD

PROJ. NO. 3017-411

PROJECT NAME FMC - 651 MARTIN AVE

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH 418.1	PURG HAL. 8010	TPH/BTXE 8015				REMARKS
B-9	1/24/89	7 AM		✓	B-9/1 A & B	2	✓						ANALYZE SAMPLE A
					B-9/2 A & B	2							
					B-9/3 A & B	2							
					B-9/4 A & B	2							
					B-9/5 A & B	2	✓						ANALYZE SAMPLE A
B-10	1/24/89	8:30A		✓	B-10/1 A & B	2	✓						ANALYZE SAMPLE A
					B-10/2 A & B	2							
					B-10/3 A & B	2							
					B-10/4 A & B	2			✓				ANALYZE SAMPLE A
					B-10/5 A & B	2	✓	✓					" " "
													5 DAY TURNAROUND

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	1/27/89 5PM	[illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

GLOBAL GEOCHEMISTRY CORPORATION

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
3017.411	FMC · 651 MARTIN AVE

SAMPLERS: (Signature) Ralph Kirin

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO OF CONTAINERS	TPH 418.1	PURG. HAL 8010					REMARKS
B-5	4/17/93	2:30		✓	B-5/1 A & B	2	✓	✓					ANALYZE SAMPLE A
					B-5/2 A & B	2							
					B-5/3 A & B	2							
					B-5/4 A & B	2							
					B-5/5 A & B	2	✓	✓					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Ralph Kirin	4/27/93 5PM	[illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

CHAIN OF CUSTODY RECORD

PROJ. NO.: 3017-411

PROJECT NAME: FMC - 651 MARTIN AVE

SAMPLERS: (Signature) Ron Kirin

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO OF CONTAINERS	Pb, Fe, Zn, Cr, Cd	TPH 418.1	TPH/BTXE 8015				REMARKS
MW-1	4/25/9	PM			MW-1	2	✓	✓					
					MW-1 DUP	2							
MW-3	4/25/9	PM			MW-3	2	✓	✓					
					MW-3 DUP	2							
MW-4	4/25/9	PM			MW-4	3	✓	✓	✓				
					MW-4 DUP	3							
					FIELD BLANK 40 ML	1		✓					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Ron Kirin	4/25/9 4:30P	[illegible]			
Relinquished by: (Signature)	**Date / Time**	**Received by: (Signature)**	**Relinquished by: (Signature)**	**Date / Time**	**Received by: (Signature)**
Relinquished by: (Signature)	**Date / Time**	**Received for Laboratory by: (Signature)**	**Date / Time**	**Remarks**	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

CHAIN OF CUSTODY RECORD

#5 (396) (done

PROJ. NO.: 3017-411
PROJECT NAME: FMC 651 MARTIN
SAMPLERS: (Signature) [signature]

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO OF CONTAINERS	TPH-1 418.1	PCBs-HALO 8010	TPH/BTXE 8015	REMARKS
5663 B-8	4/20/9	AM		✓	B-8/1 A & B •	2	✓	✓		ANALYZE SAMPLE A
					B-8/2 A & B •	2				
					B-8/3 A & B •	2				
*(A)					B-8/4 A & B •	2				
5664					B-8/5 A & B •	2	✓	✓		ANALYZE A
5665		AM			B-11/1 A & B •	2	✓	✓		ANALYZE A
5666					B-11/2 A & B •	2		✓		" "
5667					B-11/3 A & B •	2	✓	✓		" "
5668		AM			B-12/1 A & B •	2	✓	✓		ANALYZE A
5669					B-12/2 A & B •	2		✓		" "
5670					B-12/3 A & B •	2	✓	✓		" "
										5 DAY TURNAROUND

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	4/20/9	[signature]		5/1/89 10:50	[signature]
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
3017-411	FMC - 651 MARTIN AVE

SAMPLERS: (Signature) Roy Kiser

	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO OF CONTAINERS	TPH 418.1	METALS Pb (Fe, Cr) Cd, Zn	PURG. HAL (601)	REMARKS
1)	5661 MW-2	4/28/9	PM			MW-2	2	✓	✓	✓	
						MW-2 DUPLICATE	2				
2)	5662					FIELD BLANK 1 L	1	✓		✓	
						1/2 L	1	✓	✓		2 - PCK
											5 DAY TURNAROUND

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Roy Kiser	4/28/9	[illegible]		5/1/89 1030	[illegible]
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment, Copy to Coordinator Field Files

GLOBAL GEOCHEMISTRY CORPORATION

CHAIN OF CUSTODY RECORD

PROJ NO. 3017-411 A

PROJECT NAME: FMC - 651 MARTIN AVE

SAMPLERS: (Signature) Roy Klein

	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH (8015)	METALS Pb, Zn, Cd, Cr	PCB (HRL oil/grease)	TPH/BTEX distillate		REMARKS
5980	MW-1	5/26/89				MW-1 H2O •	5	✓	✓	✓	•		ANALYZE A (NOTE NO B SAMPLES
5981	MW-2	"				MW-2 H2O •	7	✓	✓	✓	✓		TAKEN FOR HRL)
5982	MW-3	"				MW-3 H2O •	5	✓	✓	✓			
5983	MW-4	"				MW-4 H2O •	7	✓	✓	✓	✓		24-48 HR FAST
5984						BLANKS •	4	✓	✓	✓	✓		TURNAROUND
5985	CMW-13	5/26/89				CMW-13 A & B •	4	✓		✓			ANALYZE A
													5 DAY TURNAROUND

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/26/89 5:25PM	[signature]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

CHAIN OF CUSTODY RECORD

PROJ. NO.: 3017-411 A
PROJECT NAME: FMC-651 MARTIN AMS
SAMPLERS: (Signature) Roy Kirn

	STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH	METALS	PH				REMARKS
5946	B16	5/25/89				B-16/1 A & B •	2	✓						ANALYZE A
5947						B-16/2 A & B •	2	✓						
5948						B-16/4 A & B •	2	✓						
						(NO THIRD INTERVAL)								
5949	B-17	5/25/89				B-17/1 A & B •	2	✓						
5950						B-17/2 A & B •	2	✓	✓	✓				
						B-17/3 * A & B •	2							
						B-17/4 A & B •	2							
5951						B-17/5 A & B •	2	✓	✓	✓				
														24-48 HR TURNAROUND (FASTEST POSSIBLE)

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Kurt Zhalla	5/25/89 5:00PM	Edgar Nelson		5/26/89 1030	M Collier
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

* One sample in bag marked B-17/3 A & one marked B-17/3 B

I think this is wrong - I have B-17/3 bag had a marked - should

CHAIN OF CUSTODY RECORD

PROJ. NO. 3017-41A

PROJECT NAME FMC - 651 MARTIN AVE

SAMPLERS: (Signature) Roy Kesin

	STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH 418.1	REMARKS
5937	B-13	5/25/89				B-13/1 A & B •	2	✓	ANALYZE A
						B-13/2 A & B •	2	✓	
5938						B-13/3 A & B •	2	✓	
5939						B-13/4 A & B •	2	✓	
5940	B-14	5/25/89				B-14/1 A & B •	2	✓	
5941						B-14/2 A & B •	2	✓	
						B-14/3 A & B •	2		
5942						B-14/4 A & B •	2	✓	
5943	B-15	5/25/89				B-15/1 A & B •	2	✓	
						B-15/2 A & B •	2		
5944						B-15/3 A & B •	2	✓	
5945						B-15/4 A & B •	2	✓	

24-48 HR TURNAROUND NEED AS SOON AS POSSIBLE

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/25/89 5:00PM	[signature]		5/26/89 1030	[signature]
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

RECEIVED OCT 10 1990

Appendix F:
TRC Staff and Environmental Professional Qualifications/Resumes

CODY H. KNOPP-SARGONI

EDUCATION

B.S., Environmental Engineering, University of California, Merced, 2017

AREAS OF EXPERTISE

Mr. Cody H. Knopp-Sargoni has technical experience in the following general areas:

- Systems operation & maintenance
- Construction safety oversight
- Groundwater & soil sampling
- Compliance & due diligence report drafting

REPRESENTATIVE EXPERIENCE

Mr. Knopp-Sargoni has two years of experience in environmental engineering consulting. His qualifications include hands-on experience in sampling, operations and maintenance, construction oversight, and compliance site visits as well as compliance and due diligence report drafting, data management, development of fieldwork guidance documents, and support of engineering design work. He currently serves in the capacity of Staff Engineer in the Engineering, Construction, and Remediation division with responsibility to support numerous projects both in the office and the field.

SPX Corporation, Groundwater Treatment System O&M – Stockton, CA (Project Role: 2020 – Present)

Mr. Knopp-Sargoni serves as a staff engineer for the operations and maintenance (O&M) of an electrochemical precipitation groundwater treatment system designed to reduce the mass contamination of a groundwater plume. Responsibilities include development and implementation of operations and maintenance manual, health and safety plans, and other compliance plans, as wells as day-to-day operations and maintenance responsibilities.

PG&E, Drinking Water Systems – Various Locations, CA (Project Role: 2019 – Present)

Serving as a staff engineer supporting data management for PG&E's drinking water systems, Mr. Knopp-Sargoni files analytical reports, manages the drinking water database, and drafts routine reports.

Schnitzer Steel Industries, Qualified Industrial Stormwater Practitioner (QISP) Compliance Activities – Various Locations, CA (Project Role: 2019 – Present)

Mr. Knopp-Sargoni serves as a staff engineer supporting the development of Exceedance Response Action (ERA) Plans and Technical Reports aimed at decreasing pollutant input to stormwater runoff. Responsibilities included stormwater data analysis, site visits, and drafting of ERA reports per Cal Waterboards guidelines.

Various Clients, Groundwater Sampling and Reporting – Various Locations, CA (Project Role: 2019 – Present)

As a staff engineer supporting the sample collection and routine reporting at various contaminated groundwater plumes, Mr. Knopp-Sargoni's responsibilities include the gauging, purging, and sampling of groundwater monitoring wells, and the generation of data tables, figures, and text for routine monitoring reports.

Various Clients, Phase I ESAs – Various Locations, CA (Project Role: 2019 – Present)

Mr. Knopp-Sargoni serves as a staff engineer supporting the development of Phase I Environmental Site Assessments (ESAs). Responsibilities include desktop research and site reconnaissance, as well as the drafting of reports per the guidelines provided in ASTM E 1527-13.

Various Clients, SWPPP Work – Various Locations, CA (Project Role: 2019 – Present)

As a staff engineer supporting the development of Stormwater Pollution Prevention Plans (SWPPP) to reduce pollutant input to stormwater runoff, Mr. Knopp-Sargoni's responsibilities include site visits, drafting of site plans, and drafting of SWPPP documents for both industrial and construction facilities per Cal Waterboards guidelines.

Various Clients, Greenhouse Gas Verification – Various Locations, CA (Project Role: 2020)

Mr. Knopp-Sargoni served as a staff engineer supporting the verification of Client's Electronic Greenhouse Gas Reporting Tool (e-GGRT) Reporting. Responsibilities included the review of the Client's reporting for accuracy as well as the drafting of data tables and report text per California Environmental Protection Agency Air Resources Board (Cal EPA ARB) guidelines.

Dynatect Ro-Lab Inc., HMBP Compliance Activities – Tracy, CA (Project Role: 2020)

As a staff engineer supporting the development of Hazardous Material Business Plans (HMBP), Mr. Knopp-Sargoni's responsibilities included site visits, development of facility hazardous material inventory and site maps, and drafting of required reports and forms per California Governor's Office of Emergency Services (Cal OES) guidelines.

Collins Aerospace, HMBP Compliance Activities – Various Locations, CA (Project Role: 2020)

Mr. Knopp-Sargoni served as a staff engineer supporting the updating of Hazardous Material Business Plans. Responsibilities included site visits, development of facility hazardous material inventory and site maps, and drafting of required reports and forms per Cal OES guidelines.

Schnitzer Steel Industries, Stormwater Design Improvements – Various Locations, CA (Project Role: 2019 – 2020)

Serving as a staff engineer supporting professional engineers in the design of stormwater management infrastructure to reduce pollutant input to stormwater runoff, Mr. Knopp-Sargoni's responsibilities included analysis of stormwater data and calculations, oversite of closed-circuit television (CCTV) storm drain inspections, and drafting of construction design drawings.

SPECIALIZED TRAINING

- Forty-Hour HAZWOPER Training, June 2018
- CPR, AED, FA Training, August 2020

GARY LIEBERMAN, CEM

EDUCATION

B.S., Geology, Sonoma State University, 1987

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

Certified Environmental Manager, Nevada, (#2052), 2007

AREAS OF EXPERTISE

Mr. Lieberman, CEM has program management and technical experience in the following general areas:

- Environmental and Regulatory Compliance
- Environmental Assessments and Audits
- Underground Storage Tank Management
- Site Remediation Design and Implementation
- Construction Management and Oversight
- Groundwater Remediation
- Hazardous Waste Management and Disposal
- Lead and Asbestos
- Environmental Health and Safety

REPRESENTATIVE EXPERIENCE

Mr. Lieberman has over 33 years of experience and responsibility in environmental consulting. His qualifications include extensive hands-on experience planning, coordinating, directing, and conducting contaminated site investigations, asbestos and lead surveys and abatement programs and performing environmental and regulatory compliance, environmental site assessments (ESAs), and re-development/Brownfields work. Mr. Lieberman's work sites have included hazardous waste, office buildings, fuel and chemical storage, agricultural, food processing, mining, and telecommunications. His clients have included real estate, petroleum and chemical companies, financial and insurance institutions in the private sector, and government agencies at the local and federal levels, including the U.S. Air Force, U.S Coast Guard, and the U.S. Army. He currently serves in the capacity of Senior Project Manager with the Environmental, Construction, and Remediation Division with responsibility for project and client management and business development.

Project Management

Environmental Health & Safety (EH&S) and Compliance Outsource Support Services, Shorenstein Realty Services, Inc. – Multiple Locations, United States

Mr. Lieberman is responsible for assisting with compliance, EH &S, and acquisition and divestiture activities, as well as facilitating staff to support their nationwide building portfolio. Since 1999, he has provided EH&S, compliance and regulatory support services for Shorenstein's owned and managed properties in San Francisco and nationwide. His services include asbestos and lead-based paint surveys, indoor air quality studies, preparation of survey reports, preparation of abatement specifications, compliance air sampling, and preparation of final closure letters and reports, building health and safety audits, and emergency response for chemical spills and exposures and a naturally occurring asbestos analysis for a redevelopment project with serpentinite fill. Additional services include developing and

EHS policy, plan, and procedures manual and facilitated rollout to more than 600 client staff nationwide. This project included monitoring pending regulatory developments, working with client management to communicate information throughout organization, and providing corporate EH&S functions for client's owned and managed properties nationwide.

Environmental Due Diligence and Investigation Activities, City of Santa Clara Parks and Recreation Department – Santa Clara, CA

Mr. Lieberman's activities under the contract included performing ESAs and investigation activities for pre-acquisition evaluation and a "Third Party" environmental risk assessment for a property previously occupied by a manufacturing facility that the City was interested in purchasing. For the Third Party" assessment, following soil remediation, the property was issued a Land Use Covenant by the DTSC that restricted the property use and an assessment was performed that evaluated environmental issues that might prevent future land uses and proposed mitigation measures and additional remediation that might be warranted to allow the City to use the property for its intended use. After the City's acquisition of the property, a Phase I ESA was performed on an adjacent parcel that was incorporated into the project and we provided soils management support during the re-development of the site as a Sports Park. A 5-Year review was also completed to meet the covenant requirements.

Asbestos and Lead Pre-Demolition Surveys and Other Industrial Hygiene Services, SFJAZZ – San Francisco, CA

Mr. Lieberman was responsible for asbestos and lead surveys and reporting to support pre-demolition requirements for the building, particulate air monitoring during building demolition to meet the San Francisco Department of Public Health's (SFDPH) site mitigation requirements and oversight of lead impacted soil removal to facilitate the development of the SFJAZZ's new Concert Performing Hall.

Phase I Environmental Site Assessments and Due Diligence, JDS Uniphase – Various Locations, United States.

Mr. Lieberman facilitated completion of Phase 1 ESAs, compliance audits and environmental due diligence support services in the Bay Area, United States, Canada, Europe, and Far East. His services included a broad range of disciplines to conduct comprehensive due diligence, compliance and environmental and health and safety assessments associated with real property mergers, acquisitions, and divestitures. Protocols were developed from nationally recognized industry standards and customized to fit the needs unique to each transaction. The services included providing JDSU with a clear understanding of the identified and potential transactional liabilities, and a cost-effective roadmap to solving the challenges. The Phase I ESAs were performed in accordance with ASTM-1527-05 and -1527-13 and the due diligence activities were often performed in quick turnaround to meet the needs of the transaction.

Various Environmental Services, GWF Energy, LLC – Five Cities in CA

Mr. Lieberman was responsible for day-to-day project management and oversight of field and technical staff. He performed Phase I environmental site assessments, field surveys and limited Phase II investigations, prepared SPCC and SWPPP plans, and biological and archeological monitoring and permitting at existing or planned power plant sites in three counties. Sites varied from 3 to 10 or more acres; projects conducted over one- to six-month periods.

Site Investigation, Corrective Action Plan and Implementation Work Plan Preparation and Implementation, Soil, Groundwater Monitoring, Hertz Oakland Airport – Oakland, CA,

Mr. Lieberman was responsible for preparation and implementation of a CAP and workplan for cleanup of petroleum hydrocarbons in shallow soil and groundwater from release from onsite above ground storage tank distribution system including additional characterization. The CAP included preparation of a feasibility study to evaluate site conditions and development of a cost-effective remedial technology that could be implemented to achieve site closure. Remedial Alternative Objectives (RAOs) were developed relative to the context of the Site and regulatory criteria, and proposed remedial action alternatives were evaluated. Based on the feasibility analysis, extensive excavation of approximately 2,600 cubic yards of impacted soil, removal of existing below grade fuel distribution system, and backfilling the excavation with oxygen releasing compound to facilitate treatment of TPH compounds in groundwater was selected as the preferred remedial alternative. In implementing this alternative, the majority of residual TPH-mass in soil was removed. Based on the removal of petroleum hydrocarbon sources, petroleum hydrocarbon concentrations in groundwater have decreased almost 10 orders of magnitude and the site received regulatory closure.

Various Consulting Services, Newark Group/Grief – Santa Clara and Stockton, CA

Since 2010, Mr. Lieberman provides investigation, remediation, groundwater monitoring and other consulting services for facilities in Santa Clara and Stockton, CA. His responsibilities also included facilitating staff to support other Newark Group/Grief facilities throughout the US.

<u>Task Management</u>

Underground Storage Tank Removal and Replacement, USPS – San Francisco, CA

Mr. Lieberman was the task and field manager responsible for the day to day activities associated with the removal and replacement of the UST. His responsibilities included managing UST subcontractor operations, assisting with permitting, communicating and coordinating with onsite USPS staff to reduce impact on site operations, job status updates to the Program Manager, ensuring quality on-time deliverables, communication with the client, preparation of UST removal closeout documents to regulatory agency, and tracking the budget.

On Call Environmental Services, Public Works Department – City of Oakland, CA

Mr. Lieberman's on-call environmental services included facilitating the pick-up and disposal of universal and hazardous materials from various City of Oakland buildings and facilities. He coordinated directly with disposal contractors to pick-up wastes in a timely manner and provide documentation of pick-up and disposal to City personnel. For an Oakland Army Base project, Mr. Lieberman assisted in implementing site investigation and oversight activities associated with completion of Risk Management Plan (RMP) locations at the former Oakland Army Base. The site investigation was completed to address data gaps and support RMP implementation in conjunction with building demolitions and included borehole installation and soil sampling at five sites to address data gaps.

Environmental Due Diligence Audits – Vallejo and Novato, CA

Mr. Lieberman was contracted by the GSA to complete Environmental Due Diligence Audit activities at 90 USCG west coast housing facilities located in Vallejo and Novato. He completed assessment activities, a

limited asbestos-containing materials survey, a lead-based paint (LBP) inspection and risk assessment, lead in soil sampling activities, and sensitive environmental area review.

Spill Prevention and Counter Measure Plan Updates, 18 California, Oregon and Washington Coast Guard Bases – CA, OR and WA

Mr. Lieberman prepared Spill Prevention and Counter Measure (SPCC) updates for USCG facilities in California, Oregon and Washington. He integrated and collaborated expertise from multiple offices to accomplish the efficient and timely completion of deliverables and coordinated with USCG personnel to arrange for access suitable for completing unit inspections at each of the units. During the inspections, interviews were conducted with unit personnel to gather pertinent information necessary for development of the of the SPCC Plan documents. Those personnel included the POC and Environmental Managers at each unit, and other unit management personnel as determined necessary.

Site Investigation, Preliminary Endangerment Assessment, Removal Action Workplan, and Removal Action Completion Reports, Former Pietersman Dairy Property – Riverside County, CA

Mr. Lieberman coordinated characterization and remediation efforts to cleanup chlorinated pesticides in shallow soil to allow redevelopment of a former dairy and agriculture property into a single-family residential community. His activities included soil sampling, field surveys, human health and ecological screening evaluations, particulate air sampling, preparation of fact sheets and community profile documents, and an engineering evaluation to develop the remedial strategy for cleanup of the Site. He worked directly with the DTSC in the Voluntary Cleanup Program to expedite the project once the remedial alternative had been selected. The implemented remediation program consisted of in situ chemical oxidation with a catalyzed peroxygen comprised of SSO – a buffered, solid source of Sustained Singlet Oxygen, Synergist-D, a sodium based catalyst, and a soil conditioner. Confirmation sampling was completed at the conclusion of the remedial program to document remediation of soil. Site closure was subsequently granted.

Phase I/II Activities, Former Voice of America Transmitter Site, U.S. General Services – Maili, Oahu, HA

Mr. Lieberman performed Phase I ESAs and Phase II activities at the former Voice of America Transmitter Site prior to being sold off as excess property. His activities included performing Phase I ESAs, field surveys, historical file review, Phase II investigative activities, which included both soil and groundwater sampling, asbestos and lead-based paint sampling of building materials, UST removal oversight, surveying of parcel and preparation of property legal description, waste disposal coordination, and report preparation. Mr. Lieberman performed work in expedited time frame allowing quicker transfer of this excess property. He was responsible for managing all field operations and for overall supervision and management of project.

American Molding & Millwork Company Supplemental Site Assessment, Risk Assessment Work Plan, American Molding & Millwork Company – Stockton, CA

Mr. Lieberman was responsible for assisting with the preparation of a Supplemental Site Assessment and Comprehensive Risk Assessment Work Plan. The document was prepared for review and concurrence by the DTSC to present data gaps and an investigation approach for completion of a field investigation planned for the site. Investigation activities completed for the site included soil, groundwater, and soil gas

sampling. Cleanup goals were developed and client received regulatory closure for the site from the DTSC allowing the site to be redeveloped as residential property.

Caltrans Injection Well Inventory, California Department of Transportation, Injection Well Inventory – CA

Mr. Lieberman coordinated staff to provide field and data collection support for an updated inventory of Class-V injection wells on Caltrans properties and properly register wells. The existing Caltrans historical inventory of these facilities was outdated, and inspections were required to verify the current operating status of inventoried wells and to register any additional injection wells that are identified by the inspections. This study was performed to confirm whether Class-V injection wells at highway rest areas, maintenance stations, and other Caltrans facilities statewide were present and required EPA registration. Under this study, the existing historical inventory was reviewed, inspected, and updated for Class-V injection wells.

Compliance

Hunters Point Naval Shipyard Parcel A Environmental Consulting Services, Lennar / BVHP, LLC – San Francisco, CA

Mr. Lieberman was responsible for documenting the presence of natural occurring asbestos in excavation areas and overseeing air monitoring and sampling and data transmission associated with the presence of natural occurring asbestos. He provided environmental consulting services to support client's legal counsel, address special requests for information from project stakeholders, and present information at planning and technical meetings as part of ongoing effort to redevelop Parcel A of area formerly occupied by U.S. Naval shipyard. Mr. Lieberman also provided review of and recommendations on existing documents.

Industrial Hygiene Support, Tesoro Corporation – Martinez, CA

Mr. Lieberman was the Project Manager responsible for field questions from operators, managers, and health and safety personnel and overseeing various services that included material (bulk) sampling, personal sampling for VOCs/TPH and asbestos, and personal dosimetry for noise/sound levels. Instruments used include sound level meters, octave band analyser, noise dosimeters, personal air pumps & dry cal calibrator, Wet bulb globe thermometer (WBGT), MultiRAE, UltraRAE, MIE pDR 1000

SPECIALIZED TRAINING

- Forty-Hour OSHA Health and Safety Training, April 1988
- Supervisory OSHA Health and Safety Training, January 1994
- Eight-Hour OSHA Health and Safety Training Refresher, October 2019
- OSHA 10 Hour Construction Safety and Health, 1994
- OSHA Confined Space Entry, 1992
- AHERA Building Inspector and Management Planning, 1995
- Project Manager Training, May 2011

PROFESSIONAL AFFILIATIONS

Groundwater Resources Association

Appendix G:
Environmental Professional Statement

DEFINITION OF ENVIRONMENTAL PROFESSIONAL AND RELEVANT EXPERIENCE THERETO PURSUANT TO 40 CFR 312

(1) a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases (see §312.1[c]) on, at, in, or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f).

(2) Such a person must: (i) hold a current Professional Engineer's or Professional Geologist's license or registration from a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) and have the equivalent of 3 years of full-time relevant experience; or (ii) be licensed or certified by the federal government, a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries as defined in §312.21 and have the equivalent of 3 years of full-time relevant experience; or (iii) have a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of 5 years of full-time relevant experience; or (iv) have the equivalent of 10 years of full-time relevant experience.

(3) An environmental professional should remain current in his or her field through participation in continuing education or other activities.

(4) The definition of environmental professional provided above does not preempt state professional licensing or registration requirements such as those for a professional geologist, engineer, or site remediation professional. Before commencing work, a person should determine the applicability of state professional licensing or registration laws to the activities to be undertaken as part of the inquiry identified in §312.21(b).

(5) A person who does not qualify as an environmental professional under the foregoing definition may assist in the conduct of all appropriate inquiries in accordance with this part if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional provided above when conducting such activities.

Relevant experience, as used in the definition of environmental professional in this section, means: participation in the performance of all appropriate inquiries investigations, environmental site assessments, or other site investigations that may include environmental analyses, investigations, and remediation which involve the understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions and for which professional judgment was used to develop opinions regarding conditions indicative of releases or threatened releases (see §312.1[c]) to the Site. TRC personnel resume(s) are included in **Appendix F**.

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Signature of Environmental Professional: _____ Date: 7/29/21

PHASE II SITE INVESTIGATION REPORT

651 Martin Avenue

Santa Clara, California

Prepared for:

Vantage Data Centers

2820 Northwestern Parkway

Santa Clara, California 95051

Prepared by:

TRC

2300 Clayton Road, Suite 610
Concord, California

September 2021

PHASE II SITE INVESTGATION REPORT

September 24, 2021

651 Martin Avenue

Santa Clara, California

Prepared for:

Vantage Data Centers

2820 Northwestern Parkway
Santa Clara, California 95051

Prepared by:

Rachelle Clair, PG
Senior Project Geologist

Gary A. Lieberman
Senior Project Manager

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Appendix B: Soil Vapor Sampling Field Sheets
Appendix C: Laboratory Analytical Reports

1.0 Introduction

1.1 Purpose and Background

TRC has prepared this *Phase II Site Investigation Report* (Report) for the property at 651 Martin Avenue (Site; **Figures 1 and 2**) on behalf of Vantage Data Centers (Vantage). The purpose of this Phase II investigation was to evaluate the presence of potential contaminants in soil and soil vapor from past uses at the Site.

The Site comprises approximately 7.71 acres of land located at 651 Martin Avenue, Santa Clara, California 95050. The Site is located in a light industrial and commercial business land use area and is currently owned by Gahrahmat Family Limited Partnership II L.P, and is leased and operated as a collision repair shop and an airport parking facility. The property consists of four industrial single story buildings and paved parking.

The Site is bordered on the north by unimproved land (former railroad spur right-of-way); on the east by railroad tracks and dirt parking; on the south by Martin Avenue followed by commercial businesses; and on the west by a large multi-tenant commercial building with tenants that include Planet Granite (a Gym), ARC Document Solutions, and Joseph J Albanese. We understand that Vantage is considering the purchase and redevelopment of the Site to expand their commercial data center campus. Accordingly, results of analyses were compared to Environmental Screening Levels (ESLs) for construction worker and commercial land uses.

Historical uses of the Site and adjoining properties may have resulted in the presence of hazardous substances on the property in the form of presumed shallow soil and/or soil vapor impacts from historical agricultural orchard and semiconductor manufacturing operations. Because no chemical characterization of subsurface conditions has been conducted at the Site, TRC completed this Phase II investigation to evaluate soil and soil vapor quality at the Site. Results of this investigation may be used to facilitate certain Site redevelopment activities.

1.2 Scope of Work

On August 26, 2021, TRC completed Borings SB-1 through SB-7 to a total depth of 6.5 feet below ground surface (bgs). Details regarding the field activities are described below.

1.2.1 Pre-Field Activities

Prior to commencing drilling activities at the Site, TRC contracted a private utility locator to clear drilling locations, marked boring and probe locations, and notified Underground Service Alert (USA).

1.2.2 Soil Boring and Soil Vapor Probe Installation

The borings were drilled by Cascade Drilling, a licensed drilling contractor, using hand auger methods to 6.5 feet bgs. At each boring location, soil samples were continuously logged in accordance with the Unified Soil Classification System (USCS), and a photoionization detector (PID) was used to collect headspace readings to measure for elevated volatile compounds at each sampling interval. TRC observed no staining or obvious signs of contamination in the samples collected. Field screening detected low PID readings ranging from 0.0 to 1.6 ppm. A copy of the field boring logs are included in **Appendix A.**

Subsurface conditions consisted primarily gray to dark brown, lean clay in the upper 1.5 to 3 feet bgs, underlain by gray to dark brown silty clay and lean clay to the total boring depth of 6.5 feet bgs. Groundwater was not encountered during this investigation.

TRC also oversaw completion of seven (7) permanent soil vapor probes at SB-1 through SB-7. The probes were installed to a total depth of 6.5 feet bgs with the sample port installed at approximately 6 feet bgs with a dedicated 1.5 inch or 6 inch AMS gas vapor tip fitted with a fine stainless-steel screen. Each probe included a sand pack from 6.5 feet to 5.5 feet, dry bentonite from 5.5 to 5 feet, hydrated bentonite from 5 feet to 0.5 feet, and neat cement at the surface. Each probe was secured at the ground surface with a flush-mounted well box.

1.2.3 Soil Sampling

At borings SB-1 through SB-7 soil samples were collected at depths of 1, 2, 3, 4, and 5 feet bgs. Samples were collected using standard industry practices, including worker safety protocols, equipment decontamination, and chain-of-custody documentation. Samples were submitted under chain-of-custody documentation for analysis by Eurofins TestAmerica, West Sacramento, a State-certified chemical laboratory.

A total of 12 soil samples that included the 1 foot sample from each borehole location and the 2 feet bgs samples from SB-1 through SB-3 (around the former USTs and Debur Machine) , SB-6 (to characterize deeper interval near eastern property boundary), and SB-7 (near former refuse burner), were analyzed for the following:

- Volatile Organic Compounds (VOCs) using EPA Method 8260B (includes 5035 method for the 1 & 2 foot sample locations);
- Diesel Range Organics (DRO), including diesel and motor oil, using EPA Method 8015B;
- 17 Title 22 Metals using Method 6020/7471;
- Organochlorine Pesticides using EPA Method 8081A (1 foot samples only); and
- Asbestos by CARB 435 (SB-1, -2, -4, -6, and -7 only).

The remaining samples were submitted to the laboratory “on hold” pending results of the shallower samples. At each location, the sample to be analyzed was collected using two 4-ounce clear glass jars and 3 VOAs (for the VOC’s where Terracore samples were collected for 5035 method).

Results of analyses are discussed in Section 2.2 below.

1.2.4 Soil Vapor Sampling

On September 1, 2021 representative soil vapor samples were collected in accordance with Department of Toxic Substances Control (DTSC) protocols, using a helium shroud for leak-check purposes. The eight (seven locations and one duplicate) soil vapor samples were submitted under chain-of-custody documentation for analysis by Eurofins Air Toxics, a State-certified chemical laboratory, and analyzed for VOCs using EPA Method TO-15. Soil vapor sampling field sheets are included in **Appendix B**. Results of analyses are discussed in Section 2.3 below.

2.0 Summary of Results

Results of analyses on soil and soil vapor samples collected during this investigation are summarized on **Table 1** and **Table 2**, respectively. Copies of the laboratory reports with chain-of-custody documentation are presented in **Appendix C**.

For the purposes of this report and in consideration of the planned commercial future use of the Site, results of soil and soil vapor analyses were compared to commercial and construction worker ESLs.

2.1 Field Quality Control

Using our Standard Operating Procedures, TRC completed field shut-in and helium leak checks prior to collecting soil vapor samples. All seven soil vapor locations were sampled on September 1, 2021, and analyzed by Eurofins Air Toxics, a State-certified chemical laboratory, for VOCs using EPA Method TO-15. Helium was detected above the laboratory reporting limit in the sample collected from SV-7 exceeding the 5% acceptable helium threshold based on the shroud concentration. However, based on the remainder of the results and the non-detection of helium, soil vapor sampling results are considered valid for the purposes of this investigation (**Table 2**).

2.2 Results of Soil Analyses

Analyses detected relatively low concentrations of VOCs, including 1,2,3-, 1,2,4-, and 1,3,5-Trichlorobenzene, naphthalene, n-butylbenzene, o-xylene, p-isopropyltoluene, toluene, and gasoline range organics (GRO), as well as diesel and motor oil that did not exceed respective ESLs established by the Regional Water Quality Control Board (RWQCB) for construction worker or commercial land uses (**Table 1**). In SB-4-1.0, analyses detected the highest values of diesel [17 milligrams per kilogram (mg/kg)] and motor oil (200 mg/kg), well below the respective construction worker and commercial ESLs.

Analyses also detected relatively low concentrations of the pesticide 4,4'-DDD in the sample collected from SB-7-1.0. No detected concentrations exceeded respective ESLs for construction worker or commercial land uses.

Except for arsenic and nickel, no detected metals concentrations exceeded respective construction worker or commercial ESLs. Detected arsenic concentrations ranged from 2.6 to 14 mg/kg, exceeding the accepted background concentration of 11 mg/kg in one sample (14 mg/kg in SB-3-1.5). Nickel exceeded the construction worker ESL of 86 mg/kg in samples collected from SB-3-1.5 and -2.5 and SB-4-1.0. We also noted that detected chromium concentrations ranged from 23 to 97 mg/kg, which are considered consistent with anticipated local background values.

To evaluate possible waste classification, samples SB-1-1.5, SB-1-2.5, SB-3-1.5, SB-3-2.5, SB-4-1.0, and SB-7-2.0 were tested for soluble chromium using Waste Extraction Test (WET).

Using the WET method, analysis detected soluble chromium at concentrations between 0.078 and 0.62 milligrams per liter (mg/L) in all samples analyzed which are below the Soluble Threshold Limit Concentration (STLC) of 5.0 mg/L, one of the criteria used to classify a waste as hazardous.

2.3 Results of Soil Vapor Analyses

Analyses on the seven soil vapor samples (and one duplicate) detected no VOC concentrations exceeding commercial ESLs, except for benzene at SB-1 [and SB-1 duplicate; 94 and 100 micrograms per cubic meter ($\mu g/m^3$), respectively], which exceeded the commercial ESL of 14 $\mu g/m^3$.

3.0 Conclusions and Recommendations

For the shallow samples collected during this investigation, analyses detected low concentrations of VOCs as well as diesel and motor oil that did not exceed respective ESLs established by the RWQCB for construction worker or commercial land uses. Analyses also detected a relatively low concentration of the pesticide 4,4'-DDD in the sample collected from SB-7-1.0. Analyses also detected up to 14 mg/kg of arsenic, exceeding the established background value of 11 mg/kg in 1 of the 12 shallow soil samples tested.

In TRC's opinion, the presence of arsenic and nickel concentrations are within normal background concentrations and exposure to these relatively low concentrations can be mitigated during and after construction using standard dust mitigation and worker safety measures. Accordingly, TRC recommends preparing and implementing a Soil Management Plan (SMP) to summarize existing chemical conditions at the Site, provide worker notification, and present guidance and safety considerations for soil handling and disposal during construction or redevelopment activities. In the event that surplus soil is generated for offsite disposal and in the absence of additional soil characterization for that surplus soil, results of analyses from this investigation indicate that surplus soil would be classified as a non-hazardous waste suitable for offsite disposal at a Class II or III landfill facility subject to facility acceptance.

For the soil vapor samples, analyses detected no VOCs exceeding respective commercial ESLs, except benzene at SB-1. The benzene appears to be localized to the former gasoline UST and vapor concentrations at the other locations did not exceed commercial screening levels. Additional investigation is recommended to delineate the extent of the vapor impacts at SB-1 and possibly to evaluate potential benzene impacts to groundwater from the gasoline UST. This additional work can be performed before or after acquisition.

4.0 Limitations

This Report was prepared for the sole use of the Vantage Data Centers. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this investigation was performed.

The accuracy and reliability of geochemical studies are a reflection of the number and type of samples taken and the extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. Chemical analyses were performed for specific parameters during this investigation, as detailed in the scope of work. Please note that additional constituents not analyzed during this evaluation may be present in soil at the site. Our sampling and analysis plan was designed using accepted environmental principles and our judgment for the performance of a soil quality evaluation. It is possible to obtain a greater degree of certainty, if desired, by implementing a more rigorous soil sampling program or evaluating the risk posed by the contaminants detected.

TABLES

Table 1 - Results of Soil Analyses
Phase II Site Investigation
651 Martin Avenue
Santa Clara, CA

Analyte	Sample ID												Soil Screening Levels					
	SB-1-1.5	SB-1-2.5	SB-2-1.0	SB-2-2.0	SB-3-1.5	SB-3-2.5	SB-4-1.0	SB-5-1.0	SB-6-1.0	SB-6-2.0	SB-7-1.0	SB-7-2.0	TTLCs[1]	STLCs[2]	TCLP[3,4]	RWQCB ESLs[c]		
	8/26/21	8/26/21	8/26/21	8/26/21	8/26/21	8/26/21	8/26/21	8/26/21	8/26/21	8/26/21	8/26/21	8/26/21				Res	Comm	Const
Volatile Organic Compounds (VOCs; EPA 8260B) All values reported in mg/kg.																		
All VOCs	^	^	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Gasoline Range Organics (GRO)-C4-C12	**0.078 J**	**0.057 J**	<0.65	<15	<0.47	<0.51	<0.45	<0.574	<0.65	<0.50	<0.51	<0.50	NE	NE	NE	430	2000	1,800
1,2,3-Trichlorobenzene	**0.0013 J *3**	<0.0044	<0.0065 *3	<0.150	<0.0047 *3	<0.0051 *3	<0.0045	<0.0054 *3	<0.0065 *3	<0.0050 *3	<0.0051	<0.0050	NE	NE	NE	NE	NE	NE
1,2,4-Trichlorobenzene	**0.0011 J *3**	<0.0044	<0.0065 *3	<0.150	<0.0047 *3	<0.0051 *3	<0.0045	<0.0054 *3	<0.0065 *3	<0.0050 *3	<0.0051	<0.0050	NE	NE	NE	24	110	240
1,2,4-Trimethylbenzene	**0.0051 *3**	<0.0044	<0.0065 *3	<0.150	<0.0047 *3	<0.0051 *3	<0.0045	<0.0054 *3	<0.0065 *3	<0.0050 *3	<0.0051	<0.0050	NE	NE	NE	NE	NE	NE
1,3,5-Trimethylbenzene	**0.0014 J *3**	<0.0044	<0.0065 *3	<0.150	<0.0047 *3	<0.0051 *3	<0.0045	<0.0054 *3	<0.0065 *3	<0.0050 *3	<0.0051	<0.0050	NE	NE	NE	NE	NE	NE
Naphthalene	**0.0035 J *3**	<0.0044	<0.0065 *3	<0.150	<0.0047 *3	<0.0051 *3	<0.0045	<0.0054 *3	<0.0065 *3	<0.0050 *3	<0.0051	<0.0050	NE	NE	NE	3.8	17	400
n-Butylbenzene	**0.0016 J *3**	<0.0044	<0.0065 *3	<0.150	<0.0047 *3	<0.0051 *3	<0.0045	<0.0054 *3	<0.0065 *3	<0.0050 *3	<0.0051	<0.0050	NE	NE	NE	NE	NE	NE
o-Xylene	**0.00047 J *3**	<0.0044	<0.0065	<0.150	<0.0047	<0.0051	<0.0045	<0.0054	<0.0065	<0.0050	<0.0051	<0.0050	NE	NE	NE	580	2,500	2,400
p-Isopropyltoluene	**0.0016 J *3**	<0.0044	<0.0065 *3	<0.150	<0.0047 *3	<0.0051 *3	<0.0045	<0.0054 *3	<0.0065 *3	<0.0050 *3	<0.0051	<0.0050	NE	NE	NE	NE	NE	NE
Toluene	**0.0011 J *3**	<0.0044	<0.0065	<0.150	<0.0047	<0.0051	<0.0045	<0.0054	<0.0065	<0.0050	<0.0051	<0.0050	NE	NE	NE	1,100	5,300	4,700
Diesel Range Organics (DRO; EPA 8015B) All values reported in mg/kg.																		
Diesel Range Organics [C10-C28]	**1.2**	**2.7**	0.74 J	<0.98	<0.99	<0.99	**17 F1 F2**	<0.97	**1.8**	0.74 J	<0.98	<0.98	NE	NE	NE	260	1,200	1,100
Motor Oil Range Organics [C28-C40]	**4.4 J**	**22**	**6.2**	**5.8**	<4.9	**5.8**	**200 F2**	<4.8	**6.2**	<5.0	<4.9	<4.9	NE	NE	NE	12,000	180,000	54,000
Organochlorine Pesticides (EPA 8081A) All values reported in mg/kg.																		
All Organochlorine Pesticides	ND	NA	ND	NA	ND	NA	ND	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	<0.0084	NA	<0.0082	NA	<0.0082	NA	<0.017	<0.0083	<0.0082	NA	**0.0022 J**	NA	1.0	0.1	NE	2.7	12	81
Asbestos (CARB 435) All values reported in %.																		
Asbestos Concentration	ND	--	ND	--	--	--	ND	--	ND	--	ND	--	1%	NE	NE	NE	NE	NE
Metals (6020) All values reported in mg/kg.																		
Antimony	**1.0 J F1**	**1.2 J**	<2.0	<1.9	**1.4 J**	1.4 J	1.6 J	<1.9	<2.0	<1.9	<2.0	<2.0	500	15	NE	11	160	50
Arsenic[6]	**3.5**	**2.6**	**8.9**	**2.7**	**11**	**3.6**	**5.5**	**9.5**	**14**	**4.2**	**4.8**	**8.9**	500	5.0	5.0	0.067	0.31	0.98
Barium	**160 F1**	**180**	**160**	**130**	**160**	**130**	**160**	**130**	**160**	**160**	**150**	**120**	10,000	100	100	15,000	220,000	3,000
Beryllium	**0.62**	**0.69**	**0.54**	**0.40**	**0.63**	**0.50**	**0.39**	**0.45**	**0.61**	**0.70**	**0.64**	**0.77**	75	0.75	NE	16	230	27
Cadmium	**0.16 J**	**0.18 J**	**0.16 J**	**0.10 J**	**0.20**	**0.14 J**	**0.15 J**	**0.14 J**	**0.17 J**	**0.11 J**	**0.24**	**0.24**	100	1.0	1.0	78	1,100	51
Chromium[5]	**51 F1**	**56**	**35**	**23**	**88**	**97**	**91**	**28**	**40**	**42**	**49**	**53**	2,500	5.0	5.0	120,000	1,800,000	530,000
Soluble Chromium (STLC) in mg/L	**0.12**	**0.32**	NA	NA	**0.62**	**0.28**	**0.15**	NA	NA	NA	NA	**0.078 J**	NA	5.0	NA	120,000	1,800,000	530,000
Cobalt	**8.9**	**9.8**	**6.0**	**3.8**	**13**	**14**	**15**	**4.7**	**6.9**	**9.2**	**7.9**	**13**	8,000	80	NE	23	350	28
Copper	**26 B**	**27 B**	**24 B**	**14 B**	**28 B**	**19 B**	**29 B**	**20 B**	**26 B**	**22 B**	**20 B**	**34 B**	2,500	25	NE	3,100	47,000	14,000
Lead	**9.3**	**9.3**	**8.6**	**3.6**	**10**	**5.2**	**5.8**	**5.3**	**8.7**	**6.9**	**11**	**10**	1,000	5.0	5.0	80	320	160
Molybdenum	<2.0	<2.0	<2.0	<1.9	<2.0	<1.9	<1.9	<1.9	<2.0	<1.9	<2.0	**1.0 J**	3,500	350	NE	390	5,800	1,800
Nickel	**56 F1**	**71**	**31**	**21**	**120**	**160**	**150**	**26**	**36**	**42**	**43**	**68**	2,000	20	NE	820	11,000	86
Selenium	<2.0	<2.0	<2.0	<1.9	<2.0	<1.9	<1.9	<1.9	<2.0	<1.9	<2.0	<2.0	100	1.0	1.0	390	5,800	1,700
Silver	<0.50	<0.50	<0.49	<0.48	<0.50	<0.49	<0.48	<0.49	<0.49	<0.48	<0.50	<0.49	500	5.0	5.0	390	5,800	1,800
Thallium	**0.87 J**	**1.1 J**	**1.2 J**	**0.95 J**	**1.1 J**	**<1.9**	**1.5 J**	**0.94 J**	**0.83 J**	**1.1 J**	**1.1 J**	**0.96 J**	700	7.0	NE	0.78	12	3.5
Vanadium	**32 F1**	**32**	**29**	**20**	**35**	**27**	**41**	**23**	**31**	**33**	**34**	**46**	2,400	24	NE	390	5,800	470
Zinc	**70**	**69**	**51**	**32**	**66**	**43**	**43**	**40**	**56**	**52**	**88**	**81**	5,000	250	NE	23,000	350,000	110,000
Metals (7471A) All values reported in mg/kg.																		
Mercury	**0.089**	**0.091**	**0.052**	**0.023 J**	**0.078**	**0.017 J**	**0.036 J**	**0.016 J**	**0.048**	**0.022 J**	<0.041	**0.035 J**	20	0.2	0.2	13	190	44

Table 1 - Results of Soil Analyses
Phase II Site Investigation
651 Martin Avenue
Santa Clara, CA

Notes:

Bold indicates detection or estimated detection at or above laboratory method detection limits.
Green Highlight indicates analyte concentration exceeds DTSC STLC Trigger Level and STLC analyses should be requested from the laboratory.

1. If the TTLC result is equal to or greater than the TTLC limit, then the waste is a California (non-RCRA) hazardous waste (however, TCLP would still be required for the eight federally regulated metals – see note 4).
2. The STLC is required if the TTLC result equals or exceeds STLC by a factor of 10 or more (DTSC STLC Trigger Level). If the STLC result is equal to or greater than the STLC limit, then the waste is a California (non-RCRA) hazardous waste; however, TCLP would still be required for the eight federally regulated metals – see note 4).
3. The TCLP is required for federal hazardous waste characterization (the eight federally regulated metals) if the TTLC result equals or exceeds the TCLP threshold by a factor of 20 or more.
4. If the TCLP sample fails, then the waste would be considered a federal (RCRA) hazardous waste.
5. Chromium on the California list accounts for trivalent and other forms of chromium. Hexavalent chromium is the more toxic of the two forms of chromium.
6. Detected arsenic concentrations exceed listed soil screening levels, but are consistent with the Bay Area background concentration of 11 mg/kg and are, therefore, not highlighted.
7. Where both Cancer Risk and Non-cancer Hazard RWQCB ESLs are established for a given analyte, the more conservative value is displayed.

Abbreviations:
TTLC = Total Threshold Limit Concentrations as published in 22 CCR § 66261.24
STLC = Soluble Threshold Limit Concentration as published in 22 CCR § 66261.24
TCLP = Toxicity Characteristic Leaching Procedure
RCRA = Resource Conservation Recovery Act
Res = Residential Shallow Soil Exposure Screening Level
Comm = Commercial/ Industrial Shallow Soil Exposure Screening Level
Const = Construction Worker Soil Exposure Screening Level
< = not detected at or above specified laboratory reporting limit
-- = not analyzed
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
^ = Not detected except for analytes listed below
* = LCS or LCSD is outside acceptance limits
*3 = ISTD response or retention time outside acceptable limits.
B = Compound was found in the blank and sample
F1 = MS and/or MSD recovery exceeds control limits; sample matrix interference and/or non-homogeneity are suspected
F2 = MS/MSD RPD exceeds control limits; sample matrix interference and/or non-homogeneity are suspected
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an estimated value
NA = Not applicable
ND = Not detected
NE = Not established
RL = Reporting Limit
MDL = Mean Detection Limit

Footnotes:
a) California Code of Regulations, Title 22, Chapter 11, Article 3 Department of Toxic Substances Control (DTSC) Hazardous Waste Criteria
b) United States Environmental Protection (US EPA) Agency Resource Conservation and Recovery Act (RCRA) Hazardous Waste Criteria
c) San Francisco Bay Regional Water Quality Control Board (RWQCB) Direct Exposure Human Health Risk Cancer Risk and Non-cancer Hazard Environmental Screening Levels (ESLs; 2019 Rev. 2)

Table 2 - Results of Soil Vapor Analyses
Phase II Site Investigation
651 Martin Avenue
Santa Clara, CA

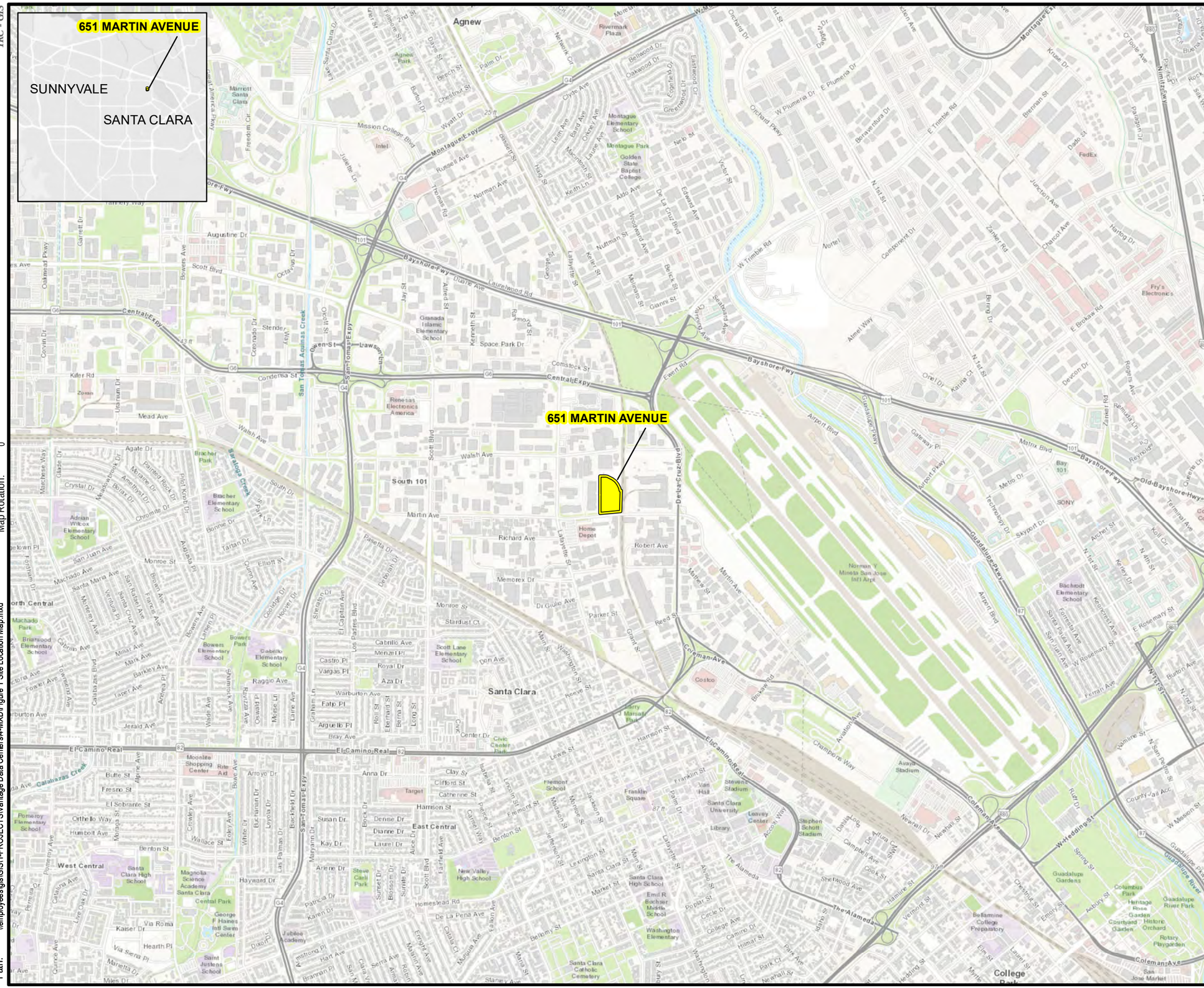
Analyte	Sample ID								Soil Vapor Screening Levels	
	SB-1	DUP-1 (SB-1)	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	RWQCB ESLs[a]	
	9/1/21	9/1/21	9/1/21	9/1/21	9/1/21	9/1/21	9/1/21	9/1/21	Residential	Commercial
Helium All values reported in % volume.										
Shroud Helium[b]	23.3	23.3	22.6	21	29.1	21.1	26.4	24.4	NA	NA
Acceptable 5% Helium	1.2	1.2	1.1	1.1	1.5	1.1	1.3	1.2	NA	NA
Reported Helium	<0.11	<0.11	<0.10	<0.11	<0.10	<0.10	<0.11	**4.9**	NA	NA
Volatile Organic Compounds (VOCs; EPA TO-15) All values reported in ug/m3.										
All VOCs	*	*	*	*	*	*	*	*	NA	NA
Freon 11	<6.0	<6.0	<5.8	**14**	<5.7	**6.7**	<6.1	<5.7	NE	NE
Ethanol	**120**	**120**	<20	<20	<19	**24**	**21**	**58**	NE	NE
Acetone	**69**	**64**	<24	<26	<24	<24	<26	**27**	1,100,000	4,500,000
2-Propanol	**25**	**11**	<10	<11	**12**	**36**	**42**	**13**	NE	NE
Carbon Disulfide	<13	<13	<13	<14	<12	**21**	<14	<13	NE	NE
Hexane	**130**	**140**	<3.6	**4.7**	<3.6	<3.5	**10**	<3.6	NE	NE
1,1-Dichloroethane	**9.4**	**9.5**	<4.2	<4.4	<4.1	<4.0	<4.4	**4.7**	58	260
1,1,1-Trichloroethane	<5.8	<5.8	**140**	**370**	**33**	**120**	**120**	<5.5	35,000	150,000
Cyclohexane	<3.7	<3.7	<3.6	**6.4**	<3.5	<3.4	<3.7	<3.5	NE	NE
2,2,4-Trimethylpentane	**440**	**480**	<4.8	**7.3**	<4.7	<4.7	**14**	**5.8**	NE	NE
Benzene	**94**	**100**	<3.3	<3.5	<3.2	<3.2	<3.5	<3.2	3.2	14
Heptane	**510**	**570**	<4.2	<4.4	<4.1	<4.1	<4.4	<4.2	NE	NE
Toluene	**470**	**500**	<3.9	<4.1	<3.8	**5.4**	<4.1	**4.7**	10,000	44,000
Tetrachloroethene (PCE)	<7.2	<7.2	<7.0	**19**	<6.8	<6.8	**38**	<6.9	15	67
Ethyl Benzene	**51**	**56**	<4.5	<4.7	<4.4	<4.3	<4.7	<4.4	37	160
m,p-Xylene	**100**	**110**	<4.5	<4.7	<4.4	<4.3	<4.7	<4.4	3500	15,000
o-Xylene	**34**	**36**	<4.5	<4.7	<4.4	<4.3	<4.7	<4.4	3500	15,000
4-Ethyltoluene	**15**	**16**	<5.1	<5.3	<5.0	<4.9	<5.3	<5.0	NE	NE
1,3,5-Trimethylbenzene	**7.4**	**8.5**	<5.1	<5.3	<5.0	<4.9	<5.3	<5.0	NE	NE
1,2,4-Trimethylbenzene	**6.4**	**7.2**	<5.1	<5.3	<5.0	<4.9	<5.3	<5.0	NE	NE

Notes:
Bold indicates detection above laboratory reporting limit.
Red text indicates reported helium concentration greater than 5% of the shroud field reading.
Blue Highlight indicates concentration greater than residential ESLs.
Yellow Highlight indicates concentration greater than commercial ESLs.

Abbreviations:
< = Not detected at or above specified laboratory reporting limit
ug/m3 = micrograms per cubic meter
* = Not detected except for analytes listed below
NA = Not applicable
NE = Not established

Footnotes:
a) Regional Water Quality Control Board (RWQCB) San Francisco Bay Environmental Screening Levels (ESLs; 2019 Rev. 2)
b) Lowest shroud helium concentration recorded during sampling used to calculated acceptable 5% helium.

FIGURES



LEGEND

SUBJECT PARCEL

NOTES

1. MAP PROJECTION IS CALIFORNIA STATE PLANE ZONE III, NAD 1983 HARN, US SURVEY FEET.
2. BASEMAP FROM ESRI, "WORLD TOPOGRAPHIC MAP," WEB BASEMAP SERVICE LAYER, INFORMATION CURRENT AS PROVIDED THROUGH SERVICE AS OF THE PUBLISHING DATE OF THIS MAP.
3. SUBJECT PARCEL VIA SANTA CLARA COUNTY TAX ASSESSOR PARCEL VIEWER.

N

1 " = 2,000 '

PROJECT:

651 MARTIN AVENUE
SANTA CLARA, CALIFORNIA

TITLE:

SITE LOCATION MAP

DRAWN BY:	M. PATINKIN	PROJ NO.:	444608
CHECKED BY:	G. LIEBERMAN		
APPROVED BY:	G. YOUNG		**FIGURE 1**
DATE:	JULY 2021		

TRC

505 Sansome Street, Suite 1600
San Francisco, CA 94111
Phone: 415.434.2600
wwwTRCcompanies.com

FILE NO.: Figure 1 Site Location Map.mxd

TRC - GIS

Coordinate System: NAD 1983 HARN StatePlane California III FIPS 0403 Feet (Foot US)
Map Rotation: 0

Plot Date: 7/29/2021, 21:00:33 PM by MPATINKIN -- LAYOUT: ANSI B(11"x17")
Path: \\employees\gis\GIS\1-PROJECTS\Vantage Data Centers\4-MXD\Figure 1 Site Location Map.mxd

SOURCE AERIAL PHOTO: Google Earth, September 2020.

LEGEND

Proposed approximate boring/probe location

NOTES:
All locations of former site features are approximate.
UST = underground storage tank

N

APPROXIMATE SCALE (FEET)

0 150

BOREHOLE LOCATION MAP

651 Martin Avenue
Santa Clara, California

TRC | 444608.1 | **FIGURE 2**

FILE NAME: C:\Users\kquinnell\OneDrive - TRC\Documents\TRC\651 Martin Ave_Santa Clara\Phase II_Sept 21\Fig2_Borehole Location Map.dwg | Layout Tab: 8x11

APPENDIX A

FIELD BORING LOGS

Geologic Log

TRC — Results you can rely on

Borehole No. SB 1
Sheet 1 of 1

Project No. 444608.1 Date 8-26-21
Client
Location 651 Martin Ave. Santa Clara
Logged By KBerube

Drilling Co. Cascade
Drill Rig Model HA
Driller
Drilling Method HA Hole Dia. 4"

Boring Completion Data
X = sample

Depth to Water				
Time				
Date				

Time	PID / FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample No.	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
1312								CH		7" concrete // Fat Clay, black, dry, v. stiff - hard
	1.6				1					
					X			CL		Sandy lean clay, greenish gray, slightly moist, soft
					2					
					X			CL		Lean clay, blck, dry, stiff v. stiff
					3					
					X			CL		SAA
					4					
					X			CL		Silty lean clays, dark brown, some med. sand, dry, m. stiff
					5					
					X					
					6					
					7					6" probe @ 6
					8					BOB 6½'
					9					
					0					
					1					
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					

TRC
Results you can rely on

Geologic Log

Borehole No. SB 2
Sheet 1 of 1

Project No. 444608.1 Date 8-26-21
Client
Location 651 Martin Ave. Santa Clara
Logged By N Berube

Drilling Co. Cascade
Drill Rig Model HA
Driller
Drilling Method HA Hole Dia. 4"

Boring Completion Data
X = sample

Depth to Water				
Time				
Date				

Time	PID / FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample No.	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
1513										10" concrete over 8" base rock
	0.1				X1			GM		Silty f. gravel, sand mix, brown, dry, loose
	0.1				X2			CL		Lean clay, d. brown, dry, stiff
	0.0				X3			CL		Lean clay, lt. gray, dry, med stiff
					X4					SAA
					X5			CL		Lean Clay, d. brown, dry, stiff
					6			CL		Lean clay, lt. gray, dry, med stiff
					7					1½" probe @ 6
					8					BOB 6½'
					9					
					0					
					1					
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					

Geologic Log

TRC — Results you can rely on

Borehole No. SB 3
Sheet 1 of 1

Project No. 444608.1 Date 8-26-21
Client
Location 651 Martin Ave. Santa Clara
Logged By K Berube

Drilling Co. Cascade
Drill Rig Model HA
Driller
Drilling Method HA Hole Dia. 4"

Boring Completion Data
x = sample

Depth to Water				
Time				
Date				

Time	PID / FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample No.	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
1422										5" AC over 7" BR
					1			GM		Grayish sand + silt mix, lt. brn, dry, loose.
					x			SC		Clayey med-crs sand, grayish green, moist
	0.7				2					SAA
					x					
	1.4				3					
					x			CL		Sandy / Silty Clay, lt grey, moist, m. stiff.
					4					SAA
					x					
					5					
					x			CL/CH		Lean/Fat Clay, blk, dry, hard, some coarse sand,
					6					
					7					6" probe @ 6'
					8					
					9					BUB 6½'
					0					
					1					
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					

Geologic Log

TRC — Results you can rely on

Borehole No. SB 4
Sheet 1 of

Project No. 444608.1 Date 8-26-21
Client
Location 651 Martin Ave. Santa Clara
Logged By K Berube

Drilling Co. Cascade
Drill Rig Model HA
Driller
Drilling Method HA Hole Dia. 4"

Boring Completion Data
X = sample

Depth to Water				
Time				
Date				

Time	PID / FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample No.	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
1605								GM	GM	3" AC over 3" BR
	0.3				X1			CL	CL	Lean Clay, drk brown, dry, m. stiff
										Lean Clay, lt. gray, dry, m. stiff
	0.1				X2					
	0.1				X3					
	0.0				X4					
										SAA drk brown, stiff
	0.1				X5					
								CL		Lean Clay, lt brown, slightly moist m. stiff
					6					
					7					1½" probe @ 6'
										BOB 6½'
					8					
					9					
					0					
					1					
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					

TRC
Results you can rely on

Geologic Log

Borehole No. SB 5
Sheet 1 of

Project No. 444608.1 Date 8-26-21
Client
Location 651 Martin Ave. Santa Clara
Logged By K Berube

Drilling Co. Cascade
Drill Rig Model HA
Driller
Drilling Method HA Hole Dia. 4"

Boring Completion Data
X = Sample

Depth to Water				
Time				
Date				

Time	PID / FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample No.	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
1705								GW		7" AC over 3" BR Gravel & sand mix loose
	0.0				X1					
								CL		Lean Clay, gray, slightly moist, soft
	0.0				X2					
								CL		Lean Clay, drk gray, dry, stiff
	0.0				X3					
								CL		Lean Clay, lt. gray, slightly moist, m. stiff
	0.2				X4					
										SAA
	0.0				X5					
								CL CH		Lean Clay, drk gray, dry, stiff
					6					→ 6" probe set at 6'
					7					→ BOB 6½'
					8					
					9					
					0					
					1					
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					

Geologic Log

TRC — Results you can rely on

Borehole No. SB 6
Sheet 1 of

Project No. 444608.1 Date 8-26-21
Client
Location 651 Martin Ave. Santa Clara
Logged By KBerube

Drilling Co. Cascade
Drill Rig Model HA
Driller
Drilling Method HA Hole Dia. 4"

Boring Completion Data

Depth to Water				
Time				
Date				

Time	PID / FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample No.	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
1736									GW	6" AC 3" BR/ well graded gvl + sand mix
	0.2				X1				CL	Lean Clay, lt. brnish gray, slightly moist, soft some m. sand + f. gravel
	0.6				X2				CL	Lean Clay, lt. gray, slightly moist, s-m. stiff some m. sand & f. gravel.
					X3				CL	Lean Clay, brownish lt. gray, dry, m. stiff
					X4					SAA
					X5				CL/CH	Lean/Fat Clay, d. brn → blck, stiff - v. stiff dry
					6					
					6½					↓
					7					6" probe @ 6'
					8					BOB @ 6½'
					9					
					0					
					1					
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					

TRC
Results you can rely on

Geologic Log

Borehole No. SB 7
Sheet 1 of

Project No. 444608.1 Date 8-26-21
Client
Location 651 Martin Ave. Santa Clara
Logged By K Berube

Drilling Co. Cascade
Drill Rig Model HA
Driller
Drilling Method HA Hole Dia. 4"

Boring Completion Data

Depth to Water				
Time				
Date				

Time	PID / FID HNu/OVA (ppm)	Blows/6 in. or Pressure (psi)	Recovery (ft/ft)	Sample No.	Depth	Sample Interval	Well Detail	Soil/Rock Symbol	Graphic Log	FIELD SOIL DESCRIPTION
1825										6" AC 5" BR
	0.3				1			CL		Lean Clay gray-drk brn, dry, stiff
	1.2				2			CL/SC		Sandy clay / clay fine sand, some silt, drk brn, dry, loose
					3			CL/ML		Silty lean clay / clayey silt w/ some m. sand, s. moist, m. stiff, lt gray.
					4					
					5					SAA
										SAA
					6			CL		Lean Clay, drk brn, silty lean clay, some m. sand, some fine grvl, dry loose
					7					
					8					6" probe @ 6'
					9					BOB 6½'
					0					
					1					
					2					
					3					
					4					
					5					
					6					
					7					
					8					
					9					

APPENDIX B

SOIL VAPOR SAMPLING FIELD SHEET

TRC

RECORD OF VAPOR SAMPLING

Date 9/1/21 **Project Number:** 444608

Project Name: 651 Martin Ave **Field Geologist/Engineer** J. Chidester

Probe Location SB-2 **Probe Depth** 6 Feet

Drilling Contractor: **Equilibration Start/End**

SHUT-IN TEST (minimum 10 minutes)

Test Start Time: 0825 **Test Stop Time:** 0835

Initial Vacuum (in Hg): -30 **Final Vacuum (in Hg):** -30 **Pass?** Y

QUANTITATIVE HELIUM LEAK CHECK (Shroud)

	Time	Helium Concentration (% or ppm$_v$)	Notes
Shroud Atmosphere	0838	25.5%	
Sampling Train	0840	0	
Downhole Tubing	0842	0	

Helium concentration within sampling train and downhole tubing should be less than 5% of shroud atmosphere concentration

VAPOR PURGING (Using 6-Liter Summa Canister for Purging)

ONE PURGE VOLUME (mL) = $V_T + V_{SP}$ = 43.2 mL + 980.4 mL = 1023.6 mL

WHERE V_T = TUBING LENGTH (FT) * 5.4 mL/FT = 8 FT * 5.4 mL/FT = 43.2 mL

AND V_{SP} = 980.4 mL, 3.75-INCH BOREHOLE, 12-INCH SAND PACK, 6-INCH DRY BENTONITE

V_T – Total tubing volume (1/4-inch OD, 3/16-inch ID tubing)

V_{SP} – Pore volume of 6-inch sand pack of #10/20 silica sand (porosity = 30%); 6-inch dry bentonite, borehole diameter of 3.75 inches.

CHANGE IN VACUUM PRESSURE FOR ONE PURGE VOLUME (in Hg) = [OnePurgeVolume(mL) * P_I]/(6000 mL-V_0)

P_I – Initial vacuum pressure before purging in inches of mercury (in Hg)

V_0 – Volume in mL of previous purge (equal to zero if canister has not been used) = 15 in Hg

Based on 6-Liter summa canister

Calculated 3-Purge Volume (mL): 3,070.8 **Final Purge Volume (mL):** 3,070.8

Start Time: 0843 **Stop Time:** 0858

Purge Canister: Initial Vacuum (in Hg): -30 **Applied Vacuum (in Hg) Initial:** 0

Final Vacuum (in Hg): -15 **(maintain <7 in Hg) Final:** 0

VAPOR SAMPLING (1-LITER SUMMA CANISTER)

Start Time 0901 **Initial Vacuum in Sample Canister** -30 in Hg

Stop Time 0907 **Final Vacuum in Sample Canister** -5 in Hg

Sample I.D. SB-2 **Laboratory** Eurofins Air Toxics

Canister I.D. 1L1627 **Manifold/Flow Controller ID** 22529 **(max 200 mL/min)**

Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)
0901	24.1% / 0	0905	32.9% / 0		
0902	31.2% / 0	0906	22.6% / 0		
0903	41.8% / 0	0907	28.4% / 0		
0904	42.8% / 0				

TRC

RECORD OF VAPOR SAMPLING

Date 9/1/21 **Project Number:** 444608

Project Name: 651 Martin Ave **Field Geologist/Engineer** B. Cisneros

Probe Location SB-4 **Probe Depth** 6 Feet

Drilling Contractor: **Equilibration Start/End**

SHUT-IN TEST (minimum 10 minutes)

Test Start Time: 920 **Test Stop Time:** 0930

Initial Vacuum (in Hg): -30 **Final Vacuum (in Hg):** -30 **Pass?** Y

QUANTITATIVE HELIUM LEAK CHECK (Shroud)

	Time	Helium Concentration (% or ppm$_v$)	Notes
Shroud Atmosphere	0933	26.4%	
Sampling Train	0935	0	
Downhole Tubing	0937	0	

leak check – / dual well

Helium concentration within sampling train and downhole tubing should be less than 5% of shroud atmosphere concentration

VAPOR PURGING (Using 6-Liter Summa Canister for Purging)

ONE PURGE VOLUME (mL) = $V_T + V_{SP}$ = 43.2 mL + 980.4 mL = 1023.6 mL

WHERE V_T = TUBING LENGTH (FT) * 5.4 mL/FT = 8 FT * 5.4 mL/FT = 43.2 mL

AND V_{SP} = 980.4 mL, 3.75-INCH BOREHOLE, 12-INCH SAND PACK, 6-INCH DRY BENTONITE

V_T – Total tubing volume (1/4-inch OD, 3/16-inch ID tubing)

V_{SP} – Pore volume of 6-inch sand pack of #10/20 silica sand (porosity = 30%); 6-inch dry bentonite, borehole diameter of 3.75 inches.

CHANGE IN VACUUM PRESSURE FOR ONE PURGE VOLUME (in Hg) = [OnePurgeVolume(mL) * P_I]/(6000 mL-V_0)

P_I – Initial vacuum pressure before purging in inches of mercury (in Hg)

V_0 – Volume in mL of previous purge (equal to zero if canister has not been used) = 15 in Hg

Based on 6-Liter summa canister

Calculated 3-Purge Volume (mL): 3,070.8 **Final Purge Volume (mL):** 3070.8

Start Time: 940 **Stop Time:** 955

Purge Canister: Initial Vacuum (in Hg): -30 **Applied Vacuum (in Hg) Initial:** 0

Final Vacuum (in Hg): -15 **(maintain <7 in Hg) Final:** 0

VAPOR SAMPLING (1-LITER SUMMA CANISTER)

Start Time 957 **Initial Vacuum in Sample Canister** -30 in Hg

Stop Time 1005 **Final Vacuum in Sample Canister** -5 in Hg

Sample I.D. SB-4 **Laboratory**

Canister I.D. 1L1926 **Manifold/Flow Controller ID** 25455 (max 200 mL/min)

Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)
958	29.1% / 0	1002	40.2% / 0		
959	30.8% / 0				
1000	35.1% / 0				
1001	39.4% / 0				

TRC

RECORD OF VAPOR SAMPLING

Date 9/1/21 **Project Number:** 444609

Project Name: 651 Martin Ave **Field Geologist/Engineer** J. Chidester

Probe Location SB-5 **Probe Depth** 6 Feet

Drilling Contractor: **Equilibration Start/End**

SHUT-IN TEST (minimum 10 minutes)

Test Start Time: 1012 **Test Stop Time:** 1022

Initial Vacuum (in Hg): -30 **Final Vacuum (in Hg):** -30 **Pass?** Y

QUANTITATIVE HELIUM LEAK CHECK (Shroud)

	Time	Helium Concentration (% or ppm$_v$)	Notes
Shroud Atmosphere	1024	33.7%	
Sampling Train	1027	0	
Downhole Tubing	1028	0	

Helium concentration within sampling train and downhole tubing should be less than 5% of shroud atmosphere concentration

VAPOR PURGING (Using 6-Liter Summa Canister for Purging)

ONE PURGE VOLUME (mL) = $V_T + V_{SP}$ = 43.2 mL + 980.4 mL = 1023.6 mL

WHERE V_T = TUBING LENGTH (FT) * 5.4 mL/FT = 8 FT * 5.4 mL/FT = 43.2 mL

AND V_{SP} = 980.4 mL, 3.75-INCH BOREHOLE, 12-INCH SAND PACK, 6-INCH DRY BENTONITE

V_T – Total tubing volume (1/4-inch OD, 3/16-inch ID tubing)

V_{SP} – Pore volume of 6-inch sand pack of #10/20 silica sand (porosity = 30%); 6-inch dry bentonite, borehole diameter of 3.75 inches.

CHANGE IN VACUUM PRESSURE FOR ONE PURGE VOLUME (in Hg) = [OnePurgeVolume(mL) * P_I]/(6000 mL-V_0)

P_I – Initial vacuum pressure before purging in inches of mercury (in Hg)

V_0 – Volume in mL of previous purge (equal to zero if canister has not been used) = 15 in Hg

Based on 6-Liter summa canister

Calculated 3-Purge Volume (mL): 3,070.8 **Final Purge Volume (mL):** 3,070.8

Start Time: 1029 **Stop Time:** 1044

Purge Canister: Initial Vacuum (in Hg): -30 **Applied Vacuum (in Hg) Initial:** 0

Final Vacuum (in Hg): -15 **(maintain <7 in Hg) Final:** 0

VAPOR SAMPLING (1-LITER SUMMA CANISTER)

Start Time 1046 **Initial Vacuum in Sample Canister** -30 in Hg

Stop Time 1051 **Final Vacuum in Sample Canister** -5 in Hg

Sample I.D. SB-5 **Laboratory** Eurofins Air Toxics

Canister I.D. 1L 2765 **Manifold/Flow Controller ID** 25383

(max 200 mL/min)

Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)
1046	21.6% / 0	1050	28.3% / 0		
1047	21.1% / 0	1051	25.1% / 0		
1048	28.9% / 0				
1049	30.4% / 0				

TRC

RECORD OF VAPOR SAMPLING

Date 9/1/2021 **Project Number:** 444608

Project Name: 651 Martin ave. **Field Geologist/Engineer** B. Cisneros

Probe Location SB-6 **Probe Depth** 6 Feet

Drilling Contractor: _____ **Equilibration Start/End** _____

SHUT-IN TEST (minimum 10 minutes)

Test Start Time: 1037 **Test Stop Time:** 1047

Initial Vacuum (in Hg): -30 **Final Vacuum (in Hg):** -30 **Pass?** Y

QUANTITATIVE HELIUM LEAK CHECK (Shroud)

	Time	Helium Concentration (% or ppm_v)	Notes
Shroud Atmosphere	1050	25.9%	
Sampling Train	1053	0	
Downhole Tubing	1055	0	

Helium concentration within sampling train and downhole tubing should be less than 5% of shroud atmosphere concentration

VAPOR PURGING (Using 6-Liter Summa Canister for Purging)

ONE PURGE VOLUME (mL) = $V_T + V_{SP}$ = 43.2 mL + 980.4 mL = 1023.6 mL

WHERE V_T = TUBING LENGTH (FT) * 5.4 mL/FT = 8 FT * 5.4 mL/FT = 43.2 mL

AND V_{SP} = 980.4 mL, 3.75-INCH BOREHOLE, 12-INCH SAND PACK, 6-INCH DRY BENTONITE

V_T – Total tubing volume (1/4-inch OD, 3/16-inch ID tubing)

V_{SP} – Pore volume of 6-inch sand pack of #10/20 silica sand (porosity = 30%); 6-inch dry bentonite, borehole diameter of 3.75 inches

CHANGE IN VACUUM PRESSURE FOR ONE PURGE VOLUME (in Hg) = [OnePurgeVolume(mL) * P_I]/(6000 mL-V_0)

P_I – Initial vacuum pressure before purging in inches of mercury (in Hg)

V_0 – Volume in mL of previous purge (equal to zero if canister has not been used) = 15 in Hg

Based on 6-Liter summa canister

Calculated 3-Purge Volume (mL): 3070.8 **Final Purge Volume (mL):** 3070.8

Start Time: 1100 **Stop Time:** 1114

Purge Canister: Initial Vacuum (in Hg): -30 **Applied Vacuum (in Hg) Initial:** 0

Final Vacuum (in Hg): -15 **(maintain <7 in Hg) Final:** 0

VAPOR SAMPLING (1-LITER SUMMA CANISTER)

Start Time 1116 **Initial Vacuum in Sample Canister** -30 in Hg

Stop Time 1125 **Final Vacuum in Sample Canister** -5 in Hg

Sample I.D. SB6 **Laboratory** _____

Canister I.D. 40864 **Manifold/Flow Controller ID** 21422 **(max 200 mL/min)**

Time	Helium Concentration / Applied Vacuum (% or ppm_v)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm_v)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm_v)/(in Hg)
1117	26.4% / 0	1121	32.0% / 0		
1118	29.1% / 0	1122	32.4% / 0		
1119	31.0% / 0	1123	33.2% / 0		
1120	32.7% / 0				

TRC

RECORD OF VAPOR SAMPLING

Date 9/1/21 Project Number: 444608

Project Name: 651 Martin Ave Field Geologist/Engineer J. Chidester

Probe Location SB-3 Probe Depth 6' Feet

Drilling Contractor: Equilibration Start/End

SHUT-IN TEST (minimum 10 minutes)

Test Start Time: 1140 Test Stop Time: 1150

Initial Vacuum (in Hg): -30 Final Vacuum (in Hg): -30 Pass? Y

QUANTITATIVE HELIUM LEAK CHECK (Shroud)

	Time	Helium Concentration (% or ppm$_v$)	Notes
Shroud Atmosphere	1151	31.5%	
Sampling Train	1152	0	
Downhole Tubing	1153	0	

Helium concentration within sampling train and downhole tubing should be less than 5% of shroud atmosphere concentration

VAPOR PURGING (Using 6-Liter Summa Canister for Purging)

ONE PURGE VOLUME (mL) = $V_T + V_{SP}$ = 43.2 mL + 980.4 mL = 1023.6 mL

WHERE V_T = TUBING LENGTH (FT) * 5.4 mL/FT = 8 FT * 5.4 mL/FT = 43.2 mL

AND V_{SP} = 980.4 mL, 3.75-INCH BOREHOLE, 12-INCH SAND PACK, 6-INCH DRY BENTONITE

V_T – Total tubing volume (1/4-inch OD, 3/16-inch ID tubing)

V_{SP} – Pore volume of 6-inch sand pack of #10/20 silica sand (porosity = 30%); 6-inch dry bentonite, borehole diameter of 3.75 inches.

CHANGE IN VACUUM PRESSURE FOR ONE PURGE VOLUME (in Hg) = [OnePurgeVolume(mL) * P_I]/(6000 mL-V_0)

P_I – Initial vacuum pressure before purging in inches of mercury (in Hg)

V_0 – Volume in mL of previous purge (equal to zero if canister has not been used)

Based on 6-Liter summa canister

= 15 in Hg

Calculated 3-Purge Volume (mL): 3,070.9 Final Purge Volume (mL): 3,070.9

Start Time: 1154 Stop Time: 1209

Purge Canister: Initial Vacuum (in Hg): -30 Applied Vacuum (in Hg) Initial: 0

Final Vacuum (in Hg): -15 (maintain <7 in Hg) Final: 0

VAPOR SAMPLING (1-LITER SUMMA CANISTER)

Start Time 1210 Initial Vacuum in Sample Canister -30 in Hg

Stop Time 1215 Final Vacuum in Sample Canister -5 in Hg

Sample I.D. SB-3 Laboratory Eurofins Air Toxics

Canister I.D. 1L1993 Manifold/Flow Controller ID 22544 (max 200 mL/min)

Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)
1210	21.0% / 0	1214	28.0% / 0		
1211	22.2% / 0	1215	25.1% / 0		
1212	32.0% / 0				
1213	32.0% / 0				

TRC

RECORD OF VAPOR SAMPLING

Date 9/1/21 **Project Number:** 444608

Project Name: 651 Martin Ave. **Field Geologist/Engineer** B. Cisneros

Probe Location SB-7 **Probe Depth** 6 Feet

Drilling Contractor: _____ **Equilibration Start/End** _____

SHUT-IN TEST (minimum 10 minutes)

Test Start Time: 1150 **Test Stop Time:** 1200

Initial Vacuum (in Hg): -30 **Final Vacuum (in Hg):** -30 **Pass?** Y

QUANTITATIVE HELIUM LEAK CHECK (Shroud)

	Time	Helium Concentration (% or ppm$_v$)	Notes
Shroud Atmosphere	1205	22.1% / 0	
Sampling Train	1207	0	
Downhole Tubing	1209	0	

Helium concentration within sampling train and downhole tubing should be less than 5% of shroud atmosphere concentration

VAPOR PURGING (Using 6-Liter Summa Canister for Purging)

ONE PURGE VOLUME (mL) = $V_T + V_{SP}$ = 43.2 mL + 980.4 mL = 1023.6 mL

WHERE V_T = TUBING LENGTH (FT) * 5.4 mL/FT = 8 FT * 5.4 mL/FT = 43.2 mL

AND V_{SP} = 980.4 mL, 3.75-INCH BOREHOLE, 12-INCH SAND PACK, 6-INCH DRY BENTONITE

V_T – Total tubing volume (1/4-inch OD, 3/16-inch ID tubing)

V_{SP} – Pore volume of 6-inch sand pack of #10/20 silica sand (porosity = 30%); 6-inch dry bentonite, borehole diameter of 3.75 inches.

CHANGE IN VACUUM PRESSURE FOR ONE PURGE VOLUME (in Hg) = [OnePurgeVolume(mL) * P_I]/(6000 mL-V_0)

P_I – Initial vacuum pressure before purging in inches of mercury (in Hg)

V_0 – Volume in mL of previous purge (equal to zero if canister has not been used) = 15 in Hg.

Based on 6-Liter summa canister

Calculated 3-Purge Volume (mL): 3070.8 **Final Purge Volume (mL):** 3070.8

Start Time: 1210 **Stop Time:** 1226

Purge Canister: Initial Vacuum (in Hg): -36 **Applied Vacuum (in Hg) Initial:** 0

Final Vacuum (in Hg): -15 **(maintain <7 in Hg) Final:** 0

VAPOR SAMPLING (1-LITER SUMMA CANISTER)

Start Time 1227 **Initial Vacuum in Sample Canister** -30 in Hg

Stop Time 1233 **Final Vacuum in Sample Canister** -5 in Hg

Sample I.D. SB-7 **Laboratory** _____

Canister I.D. 1L2525 **Manifold/Flow Controller ID** 22528 (max 200 mL/min)

Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)
1227	29.1% / 0	1231	28.1% / 0		
1228	24.4% / 0	1232	28.4% / 0		
1229	25.3% / 0				
1230	27.8% / 0				

TRC

RECORD OF VAPOR SAMPLING

Date 9/1/21 **Project Number:** 444609

Project Name: 651 Martin Ave. **Field Geologist/Engineer** J. Chidester

Probe Location SB-1 **Probe Depth** 6 Feet

Drilling Contractor: _____ **Equilibration Start/End** _____

SHUT-IN TEST (minimum 10 minutes)

Test Start Time: 1239 **Test Stop Time:** 1249

Initial Vacuum (in Hg): -30 **Final Vacuum (in Hg):** -30 **Pass?** Y

QUANTITATIVE HELIUM LEAK CHECK (Shroud)

	Time	Helium Concentration (% or ppm$_v$)	Notes
Shroud Atmosphere	1256	55.2%	
Sampling Train	1257	0	
Downhole Tubing	1257	0	

Helium concentration within sampling train and downhole tubing should be less than 5% of shroud atmosphere concentration

VAPOR PURGING (Using 6-Liter Summa Canister for Purging)

ONE PURGE VOLUME (mL) = $V_T + V_{SP}$ = 43.2 mL + 980.4 mL = 1023.6 mL

WHERE V_T = TUBING LENGTH (FT) * 5.4 mL/FT = [illegible] FT * 5.4 mL/FT = 43.2 mL

AND V_{SP} = 980.4 mL, 3.75-INCH BOREHOLE, [illegible] SAND PACK, 6-INCH DRY BENTONITE

V_T – Total tubing volume (1/4-inch OD, [illegible] inch ID tubing)

V_{SP} – Pore volume of 6-inch sand pack of #10/20 silica sand (porosity = 30%); 6-inch dry bentonite, borehole diameter of 3.75 inches.

CHANGE IN VACUUM PRESSURE FOR ONE PURGE VOLUME (in Hg) = [OnePurgeVolume(mL) * P_I]/(6000 mL-V_0)

P_I – Initial vacuum pressure before purging in inches of mercury (in Hg)

V_0 – Volume in mL of previous purge (equal to zero if canister has not been used) = 15 in Hg

Based on 6-Liter summa canister

Calculated 3-Purge Volume (mL): 3,070.8 **Final Purge Volume (mL):** 3,070.8

Start Time: 1303 **Stop Time:** 1318

Purge Canister: Initial Vacuum (in Hg): -30 **Applied Vacuum (in Hg) Initial:** 0

Final Vacuum (in Hg): -15 **(maintain <7 in Hg) Final:** 0

VAPOR SAMPLING (1-LITER SUMMA CANISTER)

Start Time 1318 / 1318 **Initial Vacuum in Sample Canister** -30 / -30 in Hg

Stop Time 1324 / 1324 **Final Vacuum in Sample Canister** -4 / -4 in Hg

Sample I.D. SB-1 / DUP-1 **Laboratory** Eurofins Air Toxics

Canister I.D. 1L2362 / 1L2430 **Manifold/Flow Controller ID** 25413 (max 200 mL/min)

Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)	Time	Helium Concentration / Applied Vacuum (% or ppm$_v$)/(in Hg)
1318	23.3% / 0	1322	39.5% / 0		
1319	31.0% / 0	1323	38.1% / 0		
1320	24.9% / 0	1324	34.1% / 0		
1321	35.0% / 0				

APPENDIX C

LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-78145-1
Client Project/Site: 651 Martin, Santa Clara

For:
TRC Environmental Corporation
2300 Clayton Road
Suite 610
Concord, California 94520

Attn: Gary Lieberman

Authorized for release by:
9/3/2021 4:22:07 PM

Micah Smith, Project Manager II
(916)374-4302
Micah.Smith@Eurofinset.com

LINKS

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Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 320-78145-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-78145-1

Comments
No additional comments.

Receipt
The samples were received on 8/27/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.8º C and 5.3º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for analytical batch 320-521640 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 320-521640 recovered outside control limits for the following analytes: Dichlorodifluoromethane.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-521208 and 320-521108 and analytical batch 320-521640.

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 320-522017 recovered outside control limits for the following analytes: sec-Butylbenzene, n-Butylbenzene and tert-Butylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Internal standard (ISTD) response for the following samples were outside control limits: SB-3-1.5 (320-78145-10) and SB-6-01 (320-78145-25). The sample(s) was re-analyzed and ISTD response was outside control limits. The reanalysis has been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-521208 and 320-521108 and analytical batch 320-522017.

Method 8260B: Internal standard (ISTD) response for the following samples were outside control limits: SB-1-1.5 (320-78145-1), SB-2-1.0 (320-78145-6), SB-3-2.5 (320-78145-11), SB-5-01 (320-78145-20) and SB-6-02 (320-78145-26). The sample(s) was re-extracted and/or re-analyzed and ISTD response was outside control limits. Original set of data has been reported.

Method 8260B/CA_LUFTMS: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-521208, 320-521108 and 320-521108 and analytical batch 320-521639.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: SB-1-1.5 (320-78145-1), SB-1-2.5 (320-78145-2), SB-2-1.0 (320-78145-6), SB-6-01 (320-78145-25) and SB-6-02 (320-78145-26).

Method 8015B: Surrogate recovery for the following samples were outside control limits: SB-1-1.5 (320-78145-1), SB-1-2.5 (320-78145-2), SB-2-1.0 (320-78145-6), SB-2-2.0 (320-78145-7), SB-3-1.5 (320-78145-10), SB-3-2.5 (320-78145-11), SB-5-01 (320-78145-20), SB-6-01 (320-78145-25), SB-6-02 (320-78145-26) and SB-7-2 (320-78145-31). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B: The following samples were diluted due to the nature of the sample matrix: SB-4-1 (320-78145-15), (320-78145-D-15-B MS) and (320-78145-D-15-C MSD). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Job ID: 320-78145-1 (Continued)

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

Method 8015B: The matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 320-520594 and analytical batch 320-521452 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory sample control duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 8015B: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: SB-4-1 (320-78145-15).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-521017 and analytical batch 320-521620 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The following post digestion spike % recovery associated with batch 320-521620 was outside of the 75-125% control limits: Zinc (72%). The associated sample is: (320-78145-E-1-A PDS).

Method 6010B: The serial dilution performed for the following samples associated with batch 320-521620 was above the control limits of 10% for the following analytes: Zinc (11%). The associated sample is: (320-78145-E-1-A SD ^5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method CARB 435: This method was subcontracted to EMLab P&K - South San Francisco. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-1-1.5 — Lab Sample ID: 320-78145-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C4-C12	0.078	J	0.45	0.045	mg/Kg	1		8260B/CA_LUFT MS	Total/NA
1,2,3-Trichlorobenzene	1.3	J *3	4.5	0.68	ug/Kg	1		8260B	Total/NA
1,2,4-Trichlorobenzene	1.1	J *3	4.5	0.68	ug/Kg	1		8260B	Total/NA
1,2,4-Trimethylbenzene	5.1	*3	4.5	0.46	ug/Kg	1		8260B	Total/NA
1,3,5-Trimethylbenzene	1.4	J *3	4.5	0.32	ug/Kg	1		8260B	Total/NA
Naphthalene	3.5	J *3	4.5	0.57	ug/Kg	1		8260B	Total/NA
n-Butylbenzene	1.6	J *3	4.5	0.60	ug/Kg	1		8260B	Total/NA
o-Xylene	0.47	J *3	4.5	0.30	ug/Kg	1		8260B	Total/NA
p-Isopropyltoluene	1.6	J *3	4.5	0.57	ug/Kg	1		8260B	Total/NA
Toluene	1.1	J *3	4.5	0.55	ug/Kg	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	1.2		0.99	0.49	mg/Kg	1		8015B	Total/NA
Arsenic	3.5		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	160	F1	1.0	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.62		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cadmium	0.16	J	0.20	0.030	mg/Kg	1		6010B	Total/NA
Cobalt	8.9		0.50	0.25	mg/Kg	1		6010B	Total/NA
Chromium	51	F1	0.50	0.14	mg/Kg	1		6010B	Total/NA
Copper	26	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	56	F1	1.0	0.24	mg/Kg	1		6010B	Total/NA
Lead	9.3		1.0	0.26	mg/Kg	1		6010B	Total/NA
Antimony	1.0	J F1	2.0	0.94	mg/Kg	1		6010B	Total/NA
Thallium	0.87	J	2.0	0.84	mg/Kg	1		6010B	Total/NA
Vanadium	32	F1	0.50	0.19	mg/Kg	1		6010B	Total/NA
Zinc	70		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.089		0.044	0.0094	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-1-2.5 — Lab Sample ID: 320-78145-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C4-C12	0.057	J	0.44	0.044	mg/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	2.7		0.99	0.49	mg/Kg	1		8015B	Total/NA
Arsenic	2.6		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	180		0.99	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.69		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cadmium	0.18	J	0.20	0.030	mg/Kg	1		6010B	Total/NA
Cobalt	9.8		0.50	0.25	mg/Kg	1		6010B	Total/NA
Chromium	56		0.50	0.14	mg/Kg	1		6010B	Total/NA
Copper	27	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	71		0.99	0.24	mg/Kg	1		6010B	Total/NA
Lead	9.3		0.99	0.26	mg/Kg	1		6010B	Total/NA
Antimony	1.2	J	2.0	0.93	mg/Kg	1		6010B	Total/NA
Thallium	1.1	J	2.0	0.83	mg/Kg	1		6010B	Total/NA
Vanadium	32		0.50	0.19	mg/Kg	1		6010B	Total/NA
Zinc	69		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.091		0.037	0.0079	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-2-1.0 — Lab Sample ID: 320-78145-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.74	J	0.98	0.49	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB-2-1.0 (Continued) — Lab Sample ID: 320-78145-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	160		0.98	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.54		0.20	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.16	J	0.20	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	6.0		0.49	0.25	mg/Kg	1		6010B	Total/NA
Chromium	35		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	24	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	31		0.98	0.24	mg/Kg	1		6010B	Total/NA
Lead	8.6		0.98	0.25	mg/Kg	1		6010B	Total/NA
Thallium	1.2	J	2.0	0.82	mg/Kg	1		6010B	Total/NA
Vanadium	29		0.49	0.19	mg/Kg	1		6010B	Total/NA
Zinc	51		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.052		0.037	0.0079	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-2-2.0 — Lab Sample ID: 320-78145-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		1.9	1.2	mg/Kg	1		6010B	Total/NA
Barium	130		0.95	0.11	mg/Kg	1		6010B	Total/NA
Beryllium	0.40		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.10	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	3.8		0.48	0.24	mg/Kg	1		6010B	Total/NA
Chromium	23		0.48	0.13	mg/Kg	1		6010B	Total/NA
Copper	14	B	1.4	0.21	mg/Kg	1		6010B	Total/NA
Nickel	21		0.95	0.23	mg/Kg	1		6010B	Total/NA
Lead	3.6		0.95	0.25	mg/Kg	1		6010B	Total/NA
Thallium	0.95	J	1.9	0.80	mg/Kg	1		6010B	Total/NA
Vanadium	20		0.48	0.18	mg/Kg	1		6010B	Total/NA
Zinc	32		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.023	J	0.037	0.0079	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-3-1.5 — Lab Sample ID: 320-78145-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	160		0.99	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.63		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cadmium	0.20		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cobalt	13		0.50	0.25	mg/Kg	1		6010B	Total/NA
Chromium	88		0.50	0.14	mg/Kg	1		6010B	Total/NA
Copper	28	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	120		0.99	0.24	mg/Kg	1		6010B	Total/NA
Lead	10		0.99	0.26	mg/Kg	1		6010B	Total/NA
Antimony	1.4	J	2.0	0.93	mg/Kg	1		6010B	Total/NA
Thallium	1.1	J	2.0	0.83	mg/Kg	1		6010B	Total/NA
Vanadium	35		0.50	0.19	mg/Kg	1		6010B	Total/NA
Zinc	66		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.078		0.038	0.0082	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-3-2.5 — Lab Sample ID: 320-78145-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		1.9	1.3	mg/Kg	1		6010B	Total/NA
Barium	130		0.97	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.50		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.14	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	14		0.49	0.24	mg/Kg	1		6010B	Total/NA
Chromium	97		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	19	B	1.5	0.21	mg/Kg	1		6010B	Total/NA
Nickel	160		0.97	0.23	mg/Kg	1		6010B	Total/NA
Lead	5.2		0.97	0.25	mg/Kg	1		6010B	Total/NA
Antimony	1.4	J	1.9	0.91	mg/Kg	1		6010B	Total/NA
Vanadium	27		0.49	0.18	mg/Kg	1		6010B	Total/NA
Zinc	43		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.017	J	0.039	0.0083	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-4-1 — Lab Sample ID: 320-78145-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17	F1 F2	9.9	4.9	mg/Kg	10		8015B	Total/NA
Arsenic	5.5		1.9	1.3	mg/Kg	1		6010B	Total/NA
Barium	160		0.96	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.39		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.15	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	15		0.48	0.24	mg/Kg	1		6010B	Total/NA
Chromium	91		0.48	0.13	mg/Kg	1		6010B	Total/NA
Copper	29	B	1.4	0.21	mg/Kg	1		6010B	Total/NA
Nickel	150		0.96	0.23	mg/Kg	1		6010B	Total/NA
Lead	5.8		0.96	0.25	mg/Kg	1		6010B	Total/NA
Antimony	1.6	J	1.9	0.90	mg/Kg	1		6010B	Total/NA
Thallium	1.5	J	1.9	0.81	mg/Kg	1		6010B	Total/NA
Vanadium	41		0.48	0.18	mg/Kg	1		6010B	Total/NA
Zinc	43		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.036	J	0.038	0.0081	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-5-01 — Lab Sample ID: 320-78145-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		1.9	1.3	mg/Kg	1		6010B	Total/NA
Barium	130		0.97	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.45		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.14	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	4.7		0.49	0.24	mg/Kg	1		6010B	Total/NA
Chromium	28		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	20	B	1.5	0.21	mg/Kg	1		6010B	Total/NA
Nickel	26		0.97	0.23	mg/Kg	1		6010B	Total/NA
Lead	5.3		0.97	0.25	mg/Kg	1		6010B	Total/NA
Thallium	0.94	J	1.9	0.82	mg/Kg	1		6010B	Total/NA
Vanadium	23		0.49	0.18	mg/Kg	1		6010B	Total/NA
Zinc	40		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.016	J	0.038	0.0081	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-6-01 — Lab Sample ID: 320-78145-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.8		1.0	0.50	mg/Kg	1		8015B	Total/NA
Arsenic	14		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	160		0.98	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.61		0.20	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.17	J	0.20	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	6.9		0.49	0.25	mg/Kg	1		6010B	Total/NA
Chromium	40		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	26	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	36		0.98	0.24	mg/Kg	1		6010B	Total/NA
Lead	8.7		0.98	0.25	mg/Kg	1		6010B	Total/NA
Thallium	0.83	J	2.0	0.82	mg/Kg	1		6010B	Total/NA
Vanadium	31		0.49	0.19	mg/Kg	1		6010B	Total/NA
Zinc	56		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.048		0.037	0.0079	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-6-02 — Lab Sample ID: 320-78145-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.74	J	0.99	0.50	mg/Kg	1		8015B	Total/NA
Arsenic	4.2		1.9	1.2	mg/Kg	1		6010B	Total/NA
Barium	160		0.95	0.11	mg/Kg	1		6010B	Total/NA
Beryllium	0.70		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.11	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	9.2		0.48	0.24	mg/Kg	1		6010B	Total/NA
Chromium	42		0.48	0.13	mg/Kg	1		6010B	Total/NA
Copper	22	B	1.4	0.21	mg/Kg	1		6010B	Total/NA
Nickel	42		0.95	0.23	mg/Kg	1		6010B	Total/NA
Lead	6.9		0.95	0.25	mg/Kg	1		6010B	Total/NA
Thallium	1.1	J	1.9	0.80	mg/Kg	1		6010B	Total/NA
Vanadium	33		0.48	0.18	mg/Kg	1		6010B	Total/NA
Zinc	52		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.022	J	0.041	0.0089	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-7-1 — Lab Sample ID: 320-78145-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.8		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	150		0.99	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.64		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cadmium	0.24		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cobalt	7.9		0.50	0.25	mg/Kg	1		6010B	Total/NA
Chromium	49		0.50	0.14	mg/Kg	1		6010B	Total/NA
Copper	20	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	43		0.99	0.24	mg/Kg	1		6010B	Total/NA
Lead	11		0.99	0.26	mg/Kg	1		6010B	Total/NA
Thallium	1.1	J	2.0	0.83	mg/Kg	1		6010B	Total/NA
Vanadium	34		0.50	0.19	mg/Kg	1		6010B	Total/NA
Zinc	88		2.0	0.19	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-7-2

Lab Sample ID: 320-78145-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	120		0.98	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.77		0.20	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.24		0.20	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	13		0.49	0.25	mg/Kg	1		6010B	Total/NA
Chromium	53		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	34	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Molybdenum	1.0	J	2.0	0.74	mg/Kg	1		6010B	Total/NA
Nickel	68		0.98	0.24	mg/Kg	1		6010B	Total/NA
Lead	10		0.98	0.25	mg/Kg	1		6010B	Total/NA
Thallium	0.96	J	2.0	0.82	mg/Kg	1		6010B	Total/NA
Vanadium	46		0.49	0.19	mg/Kg	1		6010B	Total/NA
Zinc	81		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.035	J	0.042	0.0091	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-1-1.5

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	**0.078**	**J**	0.45	0.045	mg/Kg		08/27/21 21:26	09/01/21 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 131*	*08/27/21 21:26*	*09/01/21 12:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1,1,2-Tetrachloroethane	ND	*3	4.5	0.37	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1,1-Trichloroethane	ND		4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1,2,2-Tetrachloroethane	ND	*3	4.5	0.62	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1,2-Trichloroethane	ND	*3	4.5	0.40	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1-Dichloroethane	ND		4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1-Dichloroethene	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1-Dichloropropene	ND		4.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2,3-Trichlorobenzene	**1.3**	**J *3**	4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2,3-Trichloropropane	ND	*3	4.5	0.69	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2,4-Trichlorobenzene	**1.1**	**J *3**	4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2,4-Trimethylbenzene	**5.1**	***3**	4.5	0.46	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dibromo-3-Chloropropane	ND	*3	9.1	0.80	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dibromoethane (EDB)	ND	*3	9.1	0.25	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dichlorobenzene	ND	*3	4.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dichloroethane	ND		4.5	0.66	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dichloropropane	ND		4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,3,5-Trimethylbenzene	**1.4**	**J *3**	4.5	0.32	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,3-Dichlorobenzene	ND	*3	4.5	0.27	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,3-Dichloropropane	ND	*3	4.5	0.52	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,4-Dichlorobenzene	ND	*3	4.5	0.71	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
2,2-Dichloropropane	ND		4.5	0.35	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
2-Chlorotoluene	ND	*3	4.5	0.56	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
4-Chlorotoluene	ND	*3	4.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromobenzene	ND	*3	4.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromochloromethane	ND		4.5	0.85	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromodichloromethane	ND		4.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromoform	ND	*3	4.5	0.36	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromomethane	ND		4.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Carbon tetrachloride	ND		4.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Chlorobenzene	ND	*3	4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Chloroethane	ND		4.5	0.41	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Chloroform	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Chloromethane	ND		4.5	0.45	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
cis-1,2-Dichloroethene	ND		4.5	0.81	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
cis-1,3-Dichloropropene	ND		4.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Dibromomethane	ND		4.5	0.53	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Dichlorodifluoromethane	ND	*+ *1	4.5	0.81	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Ethylbenzene	ND	*3	4.5	0.31	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Hexachlorobutadiene	ND	*3	4.5	0.30	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Isopropylbenzene	ND	*3	4.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Methylene Chloride	ND		9.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 12:55	1

Client Sample ID: SB-1-1.5

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND	*3	4.5	0.74	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Naphthalene	**3.5**	**J *3**	4.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
n-Butylbenzene	**1.6**	**J *3**	4.5	0.60	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
N-Propylbenzene	ND	*3	4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
o-Xylene	**0.47**	**J *3**	4.5	0.30	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
p-Isopropyltoluene	**1.6**	**J *3**	4.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
sec-Butylbenzene	ND	*3	4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Styrene	ND	*3	4.5	0.28	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
tert-Butylbenzene	ND	*3	4.5	0.49	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Tetrachloroethene	ND	*3	4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Toluene	**1.1**	**J *3**	4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
trans-1,2-Dichloroethene	ND		4.5	0.35	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
trans-1,3-Dichloropropene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Trichloroethene	ND		4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Trichlorofluoromethane	ND		4.5	0.31	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Vinyl chloride	ND	*+	4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*32 - 156*	*08/27/21 21:26*	*09/01/21 12:55*	*1*
4-Bromofluorobenzene (Surr)	*83*	**3*	*63 - 143*	*08/27/21 21:26*	*09/01/21 12:55*	*1*
Dibromofluoromethane (Surr)	*117*		*55 - 129*	*08/27/21 21:26*	*09/01/21 12:55*	*1*
Toluene-d8 (Surr)	*106*		*63 - 138*	*08/27/21 21:26*	*09/01/21 12:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.2**		0.99	0.49	mg/Kg		08/28/21 07:22	08/30/21 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*32*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/30/21 23:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.090	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Arsenic	**3.5**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Barium	**160**	**F1**	1.0	0.12	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Beryllium	**0.62**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Cadmium	**0.16**	**J**	0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Cobalt	**8.9**		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Chromium	**51**	**F1**	0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Copper	**26**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Molybdenum	ND		2.0	0.75	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Nickel	**56**	**F1**	1.0	0.24	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Lead	**9.3**		1.0	0.26	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Antimony	**1.0**	**J F1**	2.0	0.94	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Thallium	**0.87**	**J**	2.0	0.84	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Vanadium	**32**	**F1**	0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Zinc	**70**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 12:44	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-1-1.5

Lab Sample ID: 320-78145-1
Matrix: Solid

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.089		0.044	0.0094	mg/Kg		09/02/21 09:00	09/02/21 13:47	1

Client Sample ID: SB-1-2.5

Lab Sample ID: 320-78145-2
Matrix: Solid

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	0.057	J	0.44	0.044	mg/Kg		08/27/21 21:26	09/01/21 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 131*	*08/27/21 21:26*	*09/01/21 13:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.4	0.23	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1,1,2-Tetrachloroethane	ND		4.4	0.36	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.60	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1,2-Trichloroethane	ND		4.4	0.39	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1-Dichloroethane	ND		4.4	0.26	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1-Dichloroethene	ND		4.4	0.23	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1-Dichloropropene	ND		4.4	0.33	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2,3-Trichlorobenzene	ND		4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2,3-Trichloropropane	ND		4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2,4-Trichlorobenzene	ND		4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2,4-Trimethylbenzene	ND		4.4	0.45	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dibromo-3-Chloropropane	ND		8.9	0.78	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dibromoethane (EDB)	ND		8.9	0.24	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dichlorobenzene	ND		4.4	0.57	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dichloroethane	ND		4.4	0.65	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dichloropropane	ND		4.4	0.53	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,3,5-Trimethylbenzene	ND		4.4	0.31	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,3-Dichlorobenzene	ND		4.4	0.27	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,3-Dichloropropane	ND		4.4	0.51	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,4-Dichlorobenzene	ND		4.4	0.69	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
2,2-Dichloropropane	ND		4.4	0.34	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
2-Chlorotoluene	ND		4.4	0.55	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
4-Chlorotoluene	ND		4.4	0.76	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromobenzene	ND		4.4	0.46	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromochloromethane	ND		4.4	0.83	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromodichloromethane	ND		4.4	0.47	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromoform	ND		4.4	0.35	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromomethane	ND		4.4	0.76	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Carbon tetrachloride	ND		4.4	0.47	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Chlorobenzene	ND		4.4	0.26	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Chloroethane	ND		4.4	0.40	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Chloroform	ND		4.4	0.23	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Chloromethane	ND		4.4	0.44	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
cis-1,2-Dichloroethene	ND		4.4	0.79	ug/Kg		08/27/21 21:26	09/02/21 12:36	1

Client Sample ID: SB-1-2.5

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		4.4	0.57	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Dibromomethane	ND		4.4	0.51	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Dichlorodifluoromethane	ND		4.4	0.79	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Ethylbenzene	ND		4.4	0.30	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Hexachlorobutadiene	ND		4.4	0.29	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Isopropylbenzene	ND		4.4	0.46	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Methylene Chloride	ND		8.9	0.74	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
m-Xylene & p-Xylene	ND		4.4	0.72	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Naphthalene	ND		4.4	0.56	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
n-Butylbenzene	ND		4.4	0.59	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
N-Propylbenzene	ND	*+	4.4	0.26	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
o-Xylene	ND		4.4	0.29	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
p-Isopropyltoluene	ND		4.4	0.56	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
sec-Butylbenzene	ND	*+	4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Styrene	ND		4.4	0.27	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
tert-Butylbenzene	ND	*+	4.4	0.48	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Tetrachloroethene	ND		4.4	0.54	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Toluene	ND		4.4	0.54	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
trans-1,2-Dichloroethene	ND		4.4	0.34	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
trans-1,3-Dichloropropene	ND		4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Trichloroethene	ND		4.4	0.53	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Trichlorofluoromethane	ND		4.4	0.30	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Vinyl chloride	ND		4.4	0.32	ug/Kg		08/27/21 21:26	09/02/21 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*32 - 156*	*08/27/21 21:26*	*09/02/21 12:36*	*1*
4-Bromofluorobenzene (Surr)	*110*		*63 - 143*	*08/27/21 21:26*	*09/02/21 12:36*	*1*
Dibromofluoromethane (Surr)	*113*		*55 - 129*	*08/27/21 21:26*	*09/02/21 12:36*	*1*
Toluene-d8 (Surr)	*111*		*63 - 138*	*08/27/21 21:26*	*09/02/21 12:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.7**		0.99	0.49	mg/Kg		08/28/21 07:22	08/30/21 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*41*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/30/21 23:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.089	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Arsenic	**2.6**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Barium	**180**		0.99	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Beryllium	**0.69**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Cadmium	**0.18**	**J**	0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Cobalt	**9.8**		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Chromium	**56**		0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Copper	**27**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Nickel	**71**		0.99	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Lead	**9.3**		0.99	0.26	mg/Kg		08/30/21 14:07	08/31/21 13:05	1

Client Sample ID: SB-1-2.5

Lab Sample ID: 320-78145-2

Date Collected: 08/26/21 13:12
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Antimony	**1.2**	**J**	2.0	0.93	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Thallium	**1.1**	**J**	2.0	0.83	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Vanadium	**32**		0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Zinc	**69**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:05	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.091**		0.037	0.0079	mg/Kg		09/02/21 09:00	09/02/21 13:58	1

Client Sample ID: SB-2-1.0

Lab Sample ID: 320-78145-6

Date Collected: 08/26/21 15:13
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.65	0.065	mg/Kg		08/27/21 21:26	09/01/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 131*	*08/27/21 21:26*	*09/01/21 13:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1,1,2-Tetrachloroethane	ND		6.5	0.53	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1,1-Trichloroethane	ND		6.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1,2,2-Tetrachloroethane	ND	*3	6.5	0.88	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1,2-Trichloroethane	ND		6.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1-Dichloroethane	ND		6.5	0.38	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1-Dichloroethene	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1-Dichloropropene	ND		6.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2,3-Trichlorobenzene	ND	*3	6.5	0.97	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2,3-Trichloropropane	ND	*3	6.5	0.99	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2,4-Trichlorobenzene	ND	*3	6.5	0.97	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2,4-Trimethylbenzene	ND	*3	6.5	0.66	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dibromo-3-Chloropropane	ND	*3	13	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dibromoethane (EDB)	ND		13	0.35	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dichlorobenzene	ND	*3	6.5	0.83	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dichloroethane	ND		6.5	0.95	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dichloropropane	ND		6.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,3,5-Trimethylbenzene	ND	*3	6.5	0.45	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,3-Dichlorobenzene	ND	*3	6.5	0.39	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,3-Dichloropropane	ND		6.5	0.74	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,4-Dichlorobenzene	ND	*3	6.5	1.0	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
2,2-Dichloropropane	ND		6.5	0.49	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
2-Chlorotoluene	ND	*3	6.5	0.81	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
4-Chlorotoluene	ND	*3	6.5	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Bromobenzene	ND	*3	6.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Bromochloromethane	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Bromodichloromethane	ND		6.5	0.69	ug/Kg		08/27/21 21:26	09/01/21 13:40	1

Client Sample ID: SB-2-1.0

Date Collected: 08/26/21 15:13
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		6.5	0.52	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Bromomethane	ND		6.5	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Carbon tetrachloride	ND		6.5	0.69	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Chlorobenzene	ND		6.5	0.38	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Chloroethane	ND		6.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Chloroform	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Chloromethane	ND		6.5	0.65	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
cis-1,2-Dichloroethene	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
cis-1,3-Dichloropropene	ND		6.5	0.83	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Dibromomethane	ND		6.5	0.75	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Dichlorodifluoromethane	ND	*+ *1	6.5	1.2	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Ethylbenzene	ND		6.5	0.44	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Hexachlorobutadiene	ND	*3	6.5	0.43	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Isopropylbenzene	ND		6.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Methylene Chloride	ND		13	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
m-Xylene & p-Xylene	ND		6.5	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Naphthalene	ND	*3	6.5	0.82	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
n-Butylbenzene	ND	*3	6.5	0.86	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
N-Propylbenzene	ND	*3	6.5	0.38	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
o-Xylene	ND		6.5	0.43	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
p-Isopropyltoluene	ND	*3	6.5	0.82	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
sec-Butylbenzene	ND	*3	6.5	0.97	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Styrene	ND		6.5	0.40	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
tert-Butylbenzene	ND	*3	6.5	0.70	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Tetrachloroethene	ND		6.5	0.79	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Toluene	ND		6.5	0.79	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
trans-1,2-Dichloroethene	ND		6.5	0.49	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
trans-1,3-Dichloropropene	ND		6.5	0.97	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Trichloroethene	ND		6.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Trichlorofluoromethane	ND		6.5	0.44	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Vinyl chloride	ND	*+	6.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*32 - 156*	*08/27/21 21:26*	*09/01/21 13:40*	*1*
4-Bromofluorobenzene (Surr)	*89*		*63 - 143*	*08/27/21 21:26*	*09/01/21 13:40*	*1*
Dibromofluoromethane (Surr)	*113*		*55 - 129*	*08/27/21 21:26*	*09/01/21 13:40*	*1*
Toluene-d8 (Surr)	*109*		*63 - 138*	*08/27/21 21:26*	*09/01/21 13:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**0.74**	**J**	0.98	0.49	mg/Kg		08/28/21 07:22	08/30/21 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*32*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/30/21 23:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.088	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Arsenic	**8.9**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Barium	**160**		0.98	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:09	1

Client Sample ID: SB-2-1.0

Lab Sample ID: 320-78145-6

Date Collected: 08/26/21 15:13
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.54		0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Cadmium	0.16	J	0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Cobalt	6.0		0.49	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Chromium	35		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Copper	24	B	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Nickel	31		0.98	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Lead	8.6		0.98	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Antimony	ND		2.0	0.92	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Thallium	1.2	J	2.0	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Vanadium	29		0.49	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Zinc	51		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:09	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.037	0.0079	mg/Kg		09/02/21 09:00	09/02/21 14:00	1

Client Sample ID: SB-2-2.0

Lab Sample ID: 320-78145-7

Date Collected: 08/26/21 15:13
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		15	1.5	mg/Kg		08/27/21 21:26	09/01/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 131*	*08/27/21 21:26*	*09/01/21 14:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		150	7.6	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1,1,2-Tetrachloroethane	ND		150	12	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1,1-Trichloroethane	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1,2,2-Tetrachloroethane	ND		150	20	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1,2-Trichloroethane	ND		150	13	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1-Dichloroethane	ND		150	8.5	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1-Dichloroethene	ND		150	7.6	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1-Dichloropropene	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2,3-Trichlorobenzene	ND		150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2,3-Trichloropropane	ND		150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2,4-Trichlorobenzene	ND		150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2,4-Trimethylbenzene	ND		150	15	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dibromo-3-Chloropropane	ND		290	26	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dibromoethane (EDB)	ND		290	7.9	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dichlorobenzene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dichloroethane	ND		150	21	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dichloropropane	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,3,5-Trimethylbenzene	ND		150	10	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,3-Dichlorobenzene	ND		150	8.8	ug/Kg		08/27/21 21:26	09/02/21 13:21	1

Client Sample ID: SB-2-2.0

Date Collected: 08/26/21 15:13
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		150	17	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,4-Dichlorobenzene	ND		150	23	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
2,2-Dichloropropane	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
2-Chlorotoluene	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
4-Chlorotoluene	ND		150	25	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromobenzene	ND		150	15	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromochloromethane	ND		150	28	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromodichloromethane	ND		150	16	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromoform	ND		150	12	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromomethane	ND		150	25	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Carbon tetrachloride	ND		150	16	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Chlorobenzene	ND		150	8.5	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Chloroethane	ND		150	13	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Chloroform	ND		150	7.6	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Chloromethane	ND		150	15	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
cis-1,2-Dichloroethene	ND		150	26	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
cis-1,3-Dichloropropene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Dibromomethane	ND		150	17	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Dichlorodifluoromethane	ND		150	26	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Ethylbenzene	ND		150	10	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Hexachlorobutadiene	ND		150	9.7	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Isopropylbenzene	ND		150	15	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Methylene Chloride	ND		290	25	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
m-Xylene & p-Xylene	ND		150	24	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Naphthalene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
n-Butylbenzene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
N-Propylbenzene	ND	*+	150	8.5	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
o-Xylene	ND		150	9.7	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
p-Isopropyltoluene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
sec-Butylbenzene	ND	*+	150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Styrene	ND		150	9.1	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
tert-Butylbenzene	ND	*+	150	16	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Tetrachloroethene	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Toluene	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
trans-1,2-Dichloroethene	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
trans-1,3-Dichloropropene	ND		150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Trichloroethene	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Trichlorofluoromethane	ND		150	10	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Vinyl chloride	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*32 - 156*	*08/27/21 21:26*	*09/02/21 13:21*	*1*
4-Bromofluorobenzene (Surr)	*111*		*63 - 143*	*08/27/21 21:26*	*09/02/21 13:21*	*1*
Dibromofluoromethane (Surr)	*113*		*55 - 129*	*08/27/21 21:26*	*09/02/21 13:21*	*1*
Toluene-d8 (Surr)	*114*		*63 - 138*	*08/27/21 21:26*	*09/02/21 13:21*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98	0.49	mg/Kg		08/28/21 07:22	08/31/21 00:21	1

Client Sample ID: SB-2-2.0

Lab Sample ID: 320-78145-7

Date Collected: 08/26/21 15:13
Date Received: 08/27/21 09:15

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	*36*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 00:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.48	0.086	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Arsenic	**2.7**		1.9	1.2	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Barium	**130**		0.95	0.11	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Beryllium	**0.40**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Cadmium	**0.10**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Cobalt	**3.8**		0.48	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Chromium	**23**		0.48	0.13	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Copper	**14**	**B**	1.4	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Molybdenum	ND		1.9	0.71	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Nickel	**21**		0.95	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Lead	**3.6**		0.95	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Selenium	ND		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Antimony	ND		1.9	0.90	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Thallium	**0.95**	**J**	1.9	0.80	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Vanadium	**20**		0.48	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Zinc	**32**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:13	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**	**J**	0.037	0.0079	mg/Kg		09/02/21 09:00	09/02/21 14:02	1

Client Sample ID: SB-3-1.5

Lab Sample ID: 320-78145-10

Date Collected: 08/26/21 14:22
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.47	0.047	mg/Kg		08/27/21 21:26	09/01/21 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*86*		*70 - 131*	*08/27/21 21:26*	*09/01/21 14:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7	0.24	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1,1,2-Tetrachloroethane	ND		4.7	0.38	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1,1-Trichloroethane	ND		4.7	0.34	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1,2,2-Tetrachloroethane	ND	*3	4.7	0.63	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1,2-Trichloroethane	ND		4.7	0.41	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1-Dichloroethane	ND		4.7	0.27	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1-Dichloroethene	ND		4.7	0.24	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1-Dichloropropene	ND		4.7	0.35	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2,3-Trichlorobenzene	ND	*3	4.7	0.70	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2,3-Trichloropropane	ND	*3	4.7	0.71	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2,4-Trichlorobenzene	ND	*3	4.7	0.70	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2,4-Trimethylbenzene	ND	*3	4.7	0.48	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2-Dibromo-3-Chloropropane	ND	*3	9.3	0.82	ug/Kg		08/27/21 21:26	09/02/21 13:43	1

Client Sample ID: SB-3-1.5

Date Collected: 08/26/21 14:22
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		9.3	0.25	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2-Dichlorobenzene	ND	*3	4.7	0.60	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2-Dichloroethane	ND		4.7	0.68	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2-Dichloropropane	ND		4.7	0.56	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,3,5-Trimethylbenzene	ND	*3	4.7	0.33	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,3-Dichlorobenzene	ND	*3	4.7	0.28	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,3-Dichloropropane	ND		4.7	0.53	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,4-Dichlorobenzene	ND	*3	4.7	0.73	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
2,2-Dichloropropane	ND		4.7	0.35	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
2-Chlorotoluene	ND	*3	4.7	0.58	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
4-Chlorotoluene	ND	*3	4.7	0.80	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromobenzene	ND	*3	4.7	0.49	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromochloromethane	ND		4.7	0.88	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromodichloromethane	ND		4.7	0.49	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromoform	ND		4.7	0.37	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromomethane	ND		4.7	0.80	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Carbon tetrachloride	ND		4.7	0.49	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Chlorobenzene	ND		4.7	0.27	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Chloroethane	ND		4.7	0.42	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Chloroform	ND		4.7	0.24	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Chloromethane	ND		4.7	0.47	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
cis-1,2-Dichloroethene	ND		4.7	0.83	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
cis-1,3-Dichloropropene	ND		4.7	0.60	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Dibromomethane	ND		4.7	0.54	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Dichlorodifluoromethane	ND		4.7	0.83	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Ethylbenzene	ND		4.7	0.32	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Hexachlorobutadiene	ND	*3	4.7	0.31	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Isopropylbenzene	ND		4.7	0.49	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Methylene Chloride	ND		9.3	0.78	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
m-Xylene & p-Xylene	ND		4.7	0.76	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Naphthalene	ND	*3	4.7	0.59	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
n-Butylbenzene	ND	*3	4.7	0.62	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
N-Propylbenzene	ND	*+ *3	4.7	0.27	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
o-Xylene	ND		4.7	0.31	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
p-Isopropyltoluene	ND	*3	4.7	0.59	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
sec-Butylbenzene	ND	*+ *3	4.7	0.70	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Styrene	ND		4.7	0.29	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
tert-Butylbenzene	ND	*+ *3	4.7	0.50	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Tetrachloroethene	ND		4.7	0.57	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Toluene	ND		4.7	0.57	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
trans-1,2-Dichloroethene	ND		4.7	0.35	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
trans-1,3-Dichloropropene	ND		4.7	0.70	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Trichloroethene	ND		4.7	0.56	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Trichlorofluoromethane	ND		4.7	0.32	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Vinyl chloride	ND		4.7	0.34	ug/Kg		08/27/21 21:26	09/02/21 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*32 - 156*	*08/27/21 21:26*	*09/02/21 13:43*	*1*
4-Bromofluorobenzene (Surr)	*94*		*63 - 143*	*08/27/21 21:26*	*09/02/21 13:43*	*1*
Dibromofluoromethane (Surr)	*111*		*55 - 129*	*08/27/21 21:26*	*09/02/21 13:43*	*1*

Client Sample ID: SB-3-1.5

Lab Sample ID: 320-78145-10

Date Collected: 08/26/21 14:22
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*63 - 138*	*08/27/21 21:26*	*09/02/21 13:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99	0.49	mg/Kg		08/28/21 07:22	08/31/21 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*37*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 00:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.089	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Arsenic	**11**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Barium	**160**		0.99	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Beryllium	**0.63**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Cadmium	**0.20**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Cobalt	**13**		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Chromium	**88**		0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Copper	**28**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Nickel	**120**		0.99	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Lead	**10**		0.99	0.26	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Antimony	**1.4**	**J**	2.0	0.93	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Thallium	**1.1**	**J**	2.0	0.83	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Vanadium	**35**		0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Zinc	**66**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:26	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.078**		0.038	0.0082	mg/Kg		09/02/21 09:00	09/02/21 14:03	1

Client Sample ID: SB-3-2.5

Lab Sample ID: 320-78145-11

Date Collected: 08/26/21 14:22
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.51	0.051	mg/Kg		08/27/21 21:26	09/01/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 131*	*08/27/21 21:26*	*09/01/21 15:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.1	0.27	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1,1,2-Tetrachloroethane	ND		5.1	0.42	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1,2,2-Tetrachloroethane	ND	*3	5.1	0.69	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1,2-Trichloroethane	ND		5.1	0.45	ug/Kg		08/27/21 21:26	09/01/21 15:09	1

Client Sample ID: SB-3-2.5

Date Collected: 08/26/21 14:22
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.1	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1-Dichloroethene	ND		5.1	0.27	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1-Dichloropropene	ND		5.1	0.38	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2,3-Trichlorobenzene	ND	*3	5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2,3-Trichloropropane	ND	*3	5.1	0.78	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2,4-Trichlorobenzene	ND	*3	5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2,4-Trimethylbenzene	ND	*3	5.1	0.52	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dibromo-3-Chloropropane	ND	*3	10	0.90	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dibromoethane (EDB)	ND		10	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dichlorobenzene	ND	*3	5.1	0.65	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dichloroethane	ND		5.1	0.75	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dichloropropane	ND		5.1	0.61	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,3,5-Trimethylbenzene	ND	*3	5.1	0.36	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,3-Dichlorobenzene	ND	*3	5.1	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,3-Dichloropropane	ND		5.1	0.58	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,4-Dichlorobenzene	ND	*3	5.1	0.80	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
2,2-Dichloropropane	ND		5.1	0.39	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
2-Chlorotoluene	ND	*3	5.1	0.63	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
4-Chlorotoluene	ND	*3	5.1	0.88	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromobenzene	ND	*3	5.1	0.53	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromochloromethane	ND		5.1	0.96	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromodichloromethane	ND		5.1	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromoform	ND		5.1	0.41	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromomethane	ND		5.1	0.88	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Carbon tetrachloride	ND		5.1	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Chlorobenzene	ND		5.1	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Chloroethane	ND		5.1	0.46	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Chloroform	ND		5.1	0.27	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Chloromethane	ND		5.1	0.51	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
cis-1,2-Dichloroethene	ND		5.1	0.91	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
cis-1,3-Dichloropropene	ND		5.1	0.65	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Dibromomethane	ND		5.1	0.59	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Dichlorodifluoromethane	ND	*+ *1	5.1	0.91	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Ethylbenzene	ND		5.1	0.35	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Hexachlorobutadiene	ND	*3	5.1	0.34	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Isopropylbenzene	ND		5.1	0.53	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Methylene Chloride	ND		10	0.86	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
m-Xylene & p-Xylene	ND		5.1	0.83	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Naphthalene	ND	*3	5.1	0.64	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
n-Butylbenzene	ND	*3	5.1	0.67	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
N-Propylbenzene	ND	*3	5.1	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
o-Xylene	ND		5.1	0.34	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
p-Isopropyltoluene	ND	*3	5.1	0.64	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
sec-Butylbenzene	ND	*3	5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Styrene	ND		5.1	0.32	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
tert-Butylbenzene	ND	*3	5.1	0.55	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Tetrachloroethene	ND		5.1	0.62	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Toluene	ND		5.1	0.62	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
trans-1,2-Dichloroethene	ND		5.1	0.39	ug/Kg		08/27/21 21:26	09/01/21 15:09	1

Client Sample ID: SB-3-2.5

Lab Sample ID: 320-78145-11

Date Collected: 08/26/21 14:22
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Trichloroethene	ND		5.1	0.61	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Trichlorofluoromethane	ND		5.1	0.35	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Vinyl chloride	ND	*+	5.1	0.37	ug/Kg		08/27/21 21:26	09/01/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*32 - 156*	*08/27/21 21:26*	*09/01/21 15:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*63 - 143*	*08/27/21 21:26*	*09/01/21 15:09*	*1*
Dibromofluoromethane (Surr)	*109*		*55 - 129*	*08/27/21 21:26*	*09/01/21 15:09*	*1*
Toluene-d8 (Surr)	*108*		*63 - 138*	*08/27/21 21:26*	*09/01/21 15:09*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99	0.50	mg/Kg		08/28/21 07:22	08/31/21 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*41*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 01:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.087	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Arsenic	**3.6**		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Barium	**130**		0.97	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Beryllium	**0.50**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Cadmium	**0.14**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Cobalt	**14**		0.49	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Chromium	**97**		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Copper	**19**	**B**	1.5	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Molybdenum	ND		1.9	0.73	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Nickel	**160**		0.97	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Lead	**5.2**		0.97	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Selenium	ND		1.9	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Antimony	**1.4**	**J**	1.9	0.91	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Thallium	ND		1.9	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Vanadium	**27**		0.49	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Zinc	**43**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:30	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.039	0.0083	mg/Kg		09/02/21 09:00	09/02/21 14:05	1

Client Sample ID: SB-4-1

Lab Sample ID: 320-78145-15

Date Collected: 08/26/21 16:05
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.45	0.045	mg/Kg		08/27/21 21:26	09/01/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 131*	*08/27/21 21:26*	*09/01/21 15:32*	*1*

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-4-1

Date Collected: 08/26/21 16:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1,1,2-Tetrachloroethane	ND		4.5	0.37	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1,1-Trichloroethane	ND		4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.61	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1,2-Trichloroethane	ND		4.5	0.40	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1-Dichloroethane	ND		4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1-Dichloroethene	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1-Dichloropropene	ND		4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2,3-Trichlorobenzene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2,3-Trichloropropane	ND		4.5	0.69	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2,4-Trichlorobenzene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2,4-Trimethylbenzene	ND		4.5	0.46	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dibromo-3-Chloropropane	ND		9.0	0.80	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dibromoethane (EDB)	ND		9.0	0.24	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dichlorobenzene	ND		4.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dichloroethane	ND		4.5	0.66	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dichloropropane	ND		4.5	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,3,5-Trimethylbenzene	ND		4.5	0.32	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,3-Dichlorobenzene	ND		4.5	0.27	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,3-Dichloropropane	ND		4.5	0.52	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,4-Dichlorobenzene	ND		4.5	0.71	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
2,2-Dichloropropane	ND		4.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
2-Chlorotoluene	ND		4.5	0.56	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
4-Chlorotoluene	ND		4.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromobenzene	ND		4.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromochloromethane	ND		4.5	0.85	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromodichloromethane	ND		4.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromoform	ND		4.5	0.36	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromomethane	ND		4.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Carbon tetrachloride	ND		4.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Chlorobenzene	ND		4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Chloroethane	ND		4.5	0.41	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Chloroform	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Chloromethane	ND		4.5	0.45	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
cis-1,2-Dichloroethene	ND		4.5	0.80	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
cis-1,3-Dichloropropene	ND		4.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Dibromomethane	ND		4.5	0.52	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Dichlorodifluoromethane	ND	*+ *1	4.5	0.80	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Ethylbenzene	ND		4.5	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Hexachlorobutadiene	ND		4.5	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Isopropylbenzene	ND		4.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Methylene Chloride	ND		9.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
m-Xylene & p-Xylene	ND		4.5	0.73	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Naphthalene	ND		4.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
n-Butylbenzene	ND		4.5	0.60	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
N-Propylbenzene	ND		4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
o-Xylene	ND		4.5	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
p-Isopropyltoluene	ND		4.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
sec-Butylbenzene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:32	1

Client Sample ID: SB-4-1

Date Collected: 08/26/21 16:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		4.5	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
tert-Butylbenzene	ND		4.5	0.49	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Tetrachloroethene	ND		4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Toluene	ND		4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
trans-1,2-Dichloroethene	ND		4.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
trans-1,3-Dichloropropene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Trichloroethene	ND		4.5	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Trichlorofluoromethane	ND		4.5	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Vinyl chloride	ND	*+	4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*32 - 156*	*08/27/21 21:26*	*09/01/21 15:32*	*1*
4-Bromofluorobenzene (Surr)	*99*		*63 - 143*	*08/27/21 21:26*	*09/01/21 15:32*	*1*
Dibromofluoromethane (Surr)	*109*		*55 - 129*	*08/27/21 21:26*	*09/01/21 15:32*	*1*
Toluene-d8 (Surr)	*112*		*63 - 138*	*08/27/21 21:26*	*09/01/21 15:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**	**F1 F2**	9.9	4.9	mg/Kg		08/28/21 07:22	08/31/21 21:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*10*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 21:10*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.48	0.087	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Arsenic	**5.5**		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Barium	**160**		0.96	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Beryllium	**0.39**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Cadmium	**0.15**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Cobalt	**15**		0.48	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Chromium	**91**		0.48	0.13	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Copper	**29**	**B**	1.4	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Molybdenum	ND		1.9	0.72	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Nickel	**150**		0.96	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Lead	**5.8**		0.96	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Selenium	ND		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Antimony	**1.6**	**J**	1.9	0.90	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Thallium	**1.5**	**J**	1.9	0.81	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Vanadium	**41**		0.48	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Zinc	**43**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:34	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**	**J**	0.038	0.0081	mg/Kg		09/02/21 09:00	09/02/21 14:07	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-5-01

Date Collected: 08/26/21 17:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.54	0.054	mg/Kg		08/27/21 21:26	09/01/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 131*	*08/27/21 21:26*	*09/01/21 15:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.4	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1,1,2-Tetrachloroethane	ND		5.4	0.44	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1,1-Trichloroethane	ND		5.4	0.39	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1,2,2-Tetrachloroethane	ND	*3	5.4	0.73	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1,2-Trichloroethane	ND		5.4	0.47	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1-Dichloroethane	ND		5.4	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1-Dichloroethene	ND		5.4	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1-Dichloropropene	ND		5.4	0.40	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2,3-Trichlorobenzene	ND	*3	5.4	0.81	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2,3-Trichloropropane	ND	*3	5.4	0.82	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2,4-Trichlorobenzene	ND	*3	5.4	0.81	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2,4-Trimethylbenzene	ND	*3	5.4	0.55	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dibromo-3-Chloropropane	ND	*3	11	0.94	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dibromoethane (EDB)	ND		11	0.29	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dichlorobenzene	ND	*3	5.4	0.69	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dichloroethane	ND		5.4	0.78	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dichloropropane	ND		5.4	0.64	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,3,5-Trimethylbenzene	ND	*3	5.4	0.38	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,3-Dichlorobenzene	ND	*3	5.4	0.32	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,3-Dichloropropane	ND		5.4	0.61	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,4-Dichlorobenzene	ND	*3	5.4	0.84	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
2,2-Dichloropropane	ND		5.4	0.41	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
2-Chlorotoluene	ND	*3	5.4	0.67	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
4-Chlorotoluene	ND	*3	5.4	0.92	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromobenzene	ND	*3	5.4	0.56	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromochloromethane	ND		5.4	1.0	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromodichloromethane	ND		5.4	0.57	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromoform	ND		5.4	0.43	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromomethane	ND		5.4	0.92	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Carbon tetrachloride	ND		5.4	0.57	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Chlorobenzene	ND		5.4	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Chloroethane	ND		5.4	0.48	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Chloroform	ND		5.4	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Chloromethane	ND		5.4	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
cis-1,2-Dichloroethene	ND		5.4	0.96	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
cis-1,3-Dichloropropene	ND		5.4	0.69	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Dibromomethane	ND		5.4	0.62	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Dichlorodifluoromethane	ND	*+ *1	5.4	0.96	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Ethylbenzene	ND		5.4	0.36	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Hexachlorobutadiene	ND	*3	5.4	0.35	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Isopropylbenzene	ND		5.4	0.56	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Methylene Chloride	ND		11	0.90	ug/Kg		08/27/21 21:26	09/01/21 15:54	1

Client Sample ID: SB-5-01

Date Collected: 08/26/21 17:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-20

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		5.4	0.87	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Naphthalene	ND	*3	5.4	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
n-Butylbenzene	ND	*3	5.4	0.71	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
N-Propylbenzene	ND	*3	5.4	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
o-Xylene	ND		5.4	0.35	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
p-Isopropyltoluene	ND	*3	5.4	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
sec-Butylbenzene	ND	*3	5.4	0.81	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Styrene	ND		5.4	0.33	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
tert-Butylbenzene	ND	*3	5.4	0.58	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Tetrachloroethene	ND		5.4	0.65	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Toluene	ND		5.4	0.65	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
trans-1,2-Dichloroethene	ND		5.4	0.41	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
trans-1,3-Dichloropropene	ND		5.4	0.81	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Trichloroethene	ND		5.4	0.64	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Trichlorofluoromethane	ND		5.4	0.36	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Vinyl chloride	ND	*+	5.4	0.39	ug/Kg		08/27/21 21:26	09/01/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*32 - 156*	*08/27/21 21:26*	*09/01/21 15:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*63 - 143*	*08/27/21 21:26*	*09/01/21 15:54*	*1*
Dibromofluoromethane (Surr)	*110*		*55 - 129*	*08/27/21 21:26*	*09/01/21 15:54*	*1*
Toluene-d8 (Surr)	*110*		*63 - 138*	*08/27/21 21:26*	*09/01/21 15:54*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.97	0.48	mg/Kg		08/28/21 07:22	08/31/21 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*42*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 02:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.087	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Arsenic	**9.5**		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Barium	**130**		0.97	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Beryllium	**0.45**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Cadmium	**0.14**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Cobalt	**4.7**		0.49	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Chromium	**28**		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Copper	**20**	**B**	1.5	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Molybdenum	ND		1.9	0.73	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Nickel	**26**		0.97	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Lead	**5.3**		0.97	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Selenium	ND		1.9	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Antimony	ND		1.9	0.91	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Thallium	**0.94**	**J**	1.9	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Vanadium	**23**		0.49	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Zinc	**40**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:38	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-5-01

Lab Sample ID: 320-78145-20
Matrix: Solid

Date Collected: 08/26/21 17:05
Date Received: 08/27/21 09:15

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.038	0.0081	mg/Kg		09/02/21 09:00	09/02/21 14:09	1

Client Sample ID: SB-6-01

Lab Sample ID: 320-78145-25
Matrix: Solid

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.65	0.065	mg/Kg		08/27/21 21:26	09/01/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 131*	*08/27/21 21:26*	*09/01/21 16:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1,1,2-Tetrachloroethane	ND		6.5	0.54	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1,1-Trichloroethane	ND		6.5	0.47	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1,2,2-Tetrachloroethane	ND	*3	6.5	0.89	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1,2-Trichloroethane	ND		6.5	0.57	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1-Dichloroethane	ND		6.5	0.38	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1-Dichloroethene	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1-Dichloropropene	ND		6.5	0.48	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2,3-Trichlorobenzene	ND	*3	6.5	0.98	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2,3-Trichloropropane	ND	*3	6.5	0.99	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2,4-Trichlorobenzene	ND	*3	6.5	0.98	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2,4-Trimethylbenzene	ND	*3	6.5	0.67	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dibromo-3-Chloropropane	ND	*3	13	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dibromoethane (EDB)	ND		13	0.35	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dichlorobenzene	ND	*3	6.5	0.84	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dichloroethane	ND		6.5	0.95	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dichloropropane	ND		6.5	0.78	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,3,5-Trimethylbenzene	ND	*3	6.5	0.46	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,3-Dichlorobenzene	ND	*3	6.5	0.39	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,3-Dichloropropane	ND		6.5	0.74	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,4-Dichlorobenzene	ND	*3	6.5	1.0	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
2,2-Dichloropropane	ND		6.5	0.50	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
2-Chlorotoluene	ND	*3	6.5	0.81	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
4-Chlorotoluene	ND	*3	6.5	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Bromobenzene	ND	*3	6.5	0.68	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Bromochloromethane	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Bromodichloromethane	ND		6.5	0.69	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Bromoform	ND		6.5	0.52	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Bromomethane	ND		6.5	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Carbon tetrachloride	ND		6.5	0.69	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Chlorobenzene	ND		6.5	0.38	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Chloroethane	ND		6.5	0.59	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Chloroform	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Chloromethane	ND		6.5	0.65	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
cis-1,2-Dichloroethene	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/02/21 14:49	1

Client Sample ID: SB-6-01

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-25

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		6.5	0.84	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Dibromomethane	ND		6.5	0.76	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Dichlorodifluoromethane	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Ethylbenzene	ND		6.5	0.44	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Hexachlorobutadiene	ND	*3	6.5	0.43	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Isopropylbenzene	ND		6.5	0.68	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Methylene Chloride	ND		13	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
m-Xylene & p-Xylene	ND		6.5	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Naphthalene	ND	*3	6.5	0.82	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
n-Butylbenzene	ND	*3	6.5	0.86	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
N-Propylbenzene	ND	*+ *3	6.5	0.38	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
o-Xylene	ND		6.5	0.43	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
p-Isopropyltoluene	ND	*3	6.5	0.82	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
sec-Butylbenzene	ND	*+ *3	6.5	0.98	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Styrene	ND		6.5	0.40	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
tert-Butylbenzene	ND	*+ *3	6.5	0.71	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Tetrachloroethene	ND		6.5	0.80	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Toluene	ND		6.5	0.80	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
trans-1,2-Dichloroethene	ND		6.5	0.50	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
trans-1,3-Dichloropropene	ND		6.5	0.98	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Trichloroethene	ND		6.5	0.78	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Trichlorofluoromethane	ND		6.5	0.44	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Vinyl chloride	ND		6.5	0.47	ug/Kg		08/27/21 21:26	09/02/21 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*32 - 156*	*08/27/21 21:26*	*09/02/21 14:49*	*1*
4-Bromofluorobenzene (Surr)	*91*		*63 - 143*	*08/27/21 21:26*	*09/02/21 14:49*	*1*
Dibromofluoromethane (Surr)	*113*		*55 - 129*	*08/27/21 21:26*	*09/02/21 14:49*	*1*
Toluene-d8 (Surr)	*109*		*63 - 138*	*08/27/21 21:26*	*09/02/21 14:49*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.8**		1.0	0.50	mg/Kg		08/28/21 07:22	08/31/21 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*48*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 03:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.088	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Arsenic	**14**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Barium	**160**		0.98	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Beryllium	**0.61**		0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Cadmium	**0.17**	**J**	0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Cobalt	**6.9**		0.49	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Chromium	**40**		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Copper	**26**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Nickel	**36**		0.98	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Lead	**8.7**		0.98	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:42	1

Client Sample ID: SB-6-01

Lab Sample ID: 320-78145-25
Matrix: Solid

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Antimony	ND		2.0	0.92	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Thallium	**0.83**	**J**	2.0	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Vanadium	**31**		0.49	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Zinc	**56**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:42	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.048**		0.037	0.0079	mg/Kg		09/02/21 09:00	09/02/21 14:10	1

Client Sample ID: SB-6-02

Lab Sample ID: 320-78145-26
Matrix: Solid

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.50	0.050	mg/Kg		08/27/21 21:26	09/01/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 131*	*08/27/21 21:26*	*09/01/21 16:39*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.41	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1,2,2-Tetrachloroethane	ND	*3	5.0	0.68	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1,2-Trichloroethane	ND		5.0	0.44	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1-Dichloroethane	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1-Dichloroethene	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1-Dichloropropene	ND		5.0	0.37	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2,3-Trichlorobenzene	ND	*3	5.0	0.75	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2,3-Trichloropropane	ND	*3	5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2,4-Trichlorobenzene	ND	*3	5.0	0.75	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2,4-Trimethylbenzene	ND	*3	5.0	0.51	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dibromo-3-Chloropropane	ND	*3	10	0.88	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dichlorobenzene	ND	*3	5.0	0.64	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dichloroethane	ND		5.0	0.73	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dichloropropane	ND		5.0	0.60	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,3,5-Trimethylbenzene	ND	*3	5.0	0.35	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,3-Dichlorobenzene	ND	*3	5.0	0.30	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,3-Dichloropropane	ND		5.0	0.57	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,4-Dichlorobenzene	ND	*3	5.0	0.78	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
2,2-Dichloropropane	ND		5.0	0.38	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
2-Chlorotoluene	ND	*3	5.0	0.62	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
4-Chlorotoluene	ND	*3	5.0	0.86	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Bromobenzene	ND	*3	5.0	0.52	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Bromochloromethane	ND		5.0	0.94	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Bromodichloromethane	ND		5.0	0.53	ug/Kg		08/27/21 21:26	09/01/21 16:39	1

Client Sample ID: SB-6-02

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-26

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.0	0.40	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Bromomethane	ND		5.0	0.86	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Carbon tetrachloride	ND		5.0	0.53	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Chlorobenzene	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Chloroethane	ND		5.0	0.45	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Chloroform	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Chloromethane	ND		5.0	0.50	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
cis-1,2-Dichloroethene	ND		5.0	0.89	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
cis-1,3-Dichloropropene	ND		5.0	0.64	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Dibromomethane	ND		5.0	0.58	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Dichlorodifluoromethane	ND	*+ *1	5.0	0.89	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Ethylbenzene	ND		5.0	0.34	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Hexachlorobutadiene	ND	*3	5.0	0.33	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Isopropylbenzene	ND		5.0	0.52	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Methylene Chloride	ND		10	0.84	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
m-Xylene & p-Xylene	ND		5.0	0.81	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Naphthalene	ND	*3	5.0	0.63	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
n-Butylbenzene	ND	*3	5.0	0.66	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
N-Propylbenzene	ND	*3	5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
o-Xylene	ND		5.0	0.33	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
p-Isopropyltoluene	ND	*3	5.0	0.63	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
sec-Butylbenzene	ND	*3	5.0	0.75	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Styrene	ND		5.0	0.31	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
tert-Butylbenzene	ND	*3	5.0	0.54	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Tetrachloroethene	ND		5.0	0.61	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Toluene	ND		5.0	0.61	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
trans-1,2-Dichloroethene	ND		5.0	0.38	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
trans-1,3-Dichloropropene	ND		5.0	0.75	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Trichloroethene	ND		5.0	0.60	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Trichlorofluoromethane	ND		5.0	0.34	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Vinyl chloride	ND	*+	5.0	0.36	ug/Kg		08/27/21 21:26	09/01/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*32 - 156*	*08/27/21 21:26*	*09/01/21 16:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*63 - 143*	*08/27/21 21:26*	*09/01/21 16:39*	*1*
Dibromofluoromethane (Surr)	*110*		*55 - 129*	*08/27/21 21:26*	*09/01/21 16:39*	*1*
Toluene-d8 (Surr)	*112*		*63 - 138*	*08/27/21 21:26*	*09/01/21 16:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**0.74**	**J**	0.99	0.50	mg/Kg		08/28/21 07:22	08/31/21 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*50*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 03:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.48	0.086	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Arsenic	**4.2**		1.9	1.2	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Barium	**160**		0.95	0.11	mg/Kg		08/30/21 14:07	08/31/21 13:47	1

Client Sample ID: SB-6-02

Lab Sample ID: 320-78145-26

Date Collected: 08/26/21 17:36
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.70**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Cadmium	**0.11**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Cobalt	**9.2**		0.48	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Chromium	**42**		0.48	0.13	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Copper	**22**	**B**	1.4	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Molybdenum	ND		1.9	0.71	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Nickel	**42**		0.95	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Lead	**6.9**		0.95	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Selenium	ND		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Antimony	ND		1.9	0.90	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Thallium	**1.1**	**J**	1.9	0.80	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Vanadium	**33**		0.48	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Zinc	**52**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:47	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**	**J**	0.041	0.0089	mg/Kg		09/02/21 09:00	09/02/21 14:12	1

Client Sample ID: SB-7-1

Lab Sample ID: 320-78145-30

Date Collected: 08/26/21 18:25
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.51	0.051	mg/Kg		08/27/21 21:26	09/01/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 131*	*08/27/21 21:26*	*09/01/21 17:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.1	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1,1,2-Tetrachloroethane	ND		5.1	0.42	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.69	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1,2-Trichloroethane	ND		5.1	0.45	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1-Dichloroethane	ND		5.1	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1-Dichloroethene	ND		5.1	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1-Dichloropropene	ND		5.1	0.38	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2,3-Trichlorobenzene	ND		5.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2,3-Trichloropropane	ND		5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2,4-Trichlorobenzene	ND		5.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2,4-Trimethylbenzene	ND		5.1	0.52	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dibromo-3-Chloropropane	ND		10	0.89	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dichlorobenzene	ND		5.1	0.65	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dichloroethane	ND		5.1	0.74	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dichloropropane	ND		5.1	0.61	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,3,5-Trimethylbenzene	ND		5.1	0.36	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,3-Dichlorobenzene	ND		5.1	0.30	ug/Kg		08/27/21 21:26	09/01/21 17:01	1

Client Sample ID: SB-7-1

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-30

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		5.1	0.58	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,4-Dichlorobenzene	ND		5.1	0.79	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
2,2-Dichloropropane	ND		5.1	0.39	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
2-Chlorotoluene	ND		5.1	0.63	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
4-Chlorotoluene	ND		5.1	0.87	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromobenzene	ND		5.1	0.53	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromochloromethane	ND		5.1	0.95	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromodichloromethane	ND		5.1	0.54	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromoform	ND		5.1	0.41	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromomethane	ND		5.1	0.87	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Carbon tetrachloride	ND		5.1	0.54	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Chlorobenzene	ND		5.1	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Chloroethane	ND		5.1	0.46	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Chloroform	ND		5.1	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Chloromethane	ND		5.1	0.51	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
cis-1,2-Dichloroethene	ND		5.1	0.90	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
cis-1,3-Dichloropropene	ND		5.1	0.65	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Dibromomethane	ND		5.1	0.59	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Dichlorodifluoromethane	ND	*+ *1	5.1	0.90	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Ethylbenzene	ND		5.1	0.35	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Hexachlorobutadiene	ND		5.1	0.34	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Isopropylbenzene	ND		5.1	0.53	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Methylene Chloride	ND		10	0.85	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
m-Xylene & p-Xylene	ND		5.1	0.82	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Naphthalene	ND		5.1	0.64	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
n-Butylbenzene	ND		5.1	0.67	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
N-Propylbenzene	ND		5.1	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
o-Xylene	ND		5.1	0.34	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
p-Isopropyltoluene	ND		5.1	0.64	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
sec-Butylbenzene	ND		5.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Styrene	ND		5.1	0.31	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
tert-Butylbenzene	ND		5.1	0.55	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Tetrachloroethene	ND		5.1	0.62	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Toluene	ND		5.1	0.62	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
trans-1,2-Dichloroethene	ND		5.1	0.39	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
trans-1,3-Dichloropropene	ND		5.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Trichloroethene	ND		5.1	0.61	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Trichlorofluoromethane	ND		5.1	0.35	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Vinyl chloride	ND	*+	5.1	0.37	ug/Kg		08/27/21 21:26	09/01/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*32 - 156*	*08/27/21 21:26*	*09/01/21 17:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*63 - 143*	*08/27/21 21:26*	*09/01/21 17:01*	*1*
Dibromofluoromethane (Surr)	*110*		*55 - 129*	*08/27/21 21:26*	*09/01/21 17:01*	*1*
Toluene-d8 (Surr)	*112*		*63 - 138*	*08/27/21 21:26*	*09/01/21 17:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98	0.49	mg/Kg		08/28/21 07:22	08/31/21 04:02	1

Client Sample ID: SB-7-1

Lab Sample ID: 320-78145-30

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*59*		*51 - 111*	*08/28/21 07:22*	*08/31/21 04:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.089	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Arsenic	**4.8**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Barium	**150**		0.99	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Beryllium	**0.64**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Cadmium	**0.24**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Cobalt	**7.9**		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Chromium	**49**		0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Copper	**20**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Nickel	**43**		0.99	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Lead	**11**		0.99	0.26	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Antimony	ND		2.0	0.93	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Thallium	**1.1**	**J**	2.0	0.83	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Vanadium	**34**		0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Zinc	**88**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:51	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.041	0.0089	mg/Kg		09/02/21 09:00	09/02/21 16:06	1

Client Sample ID: SB-7-2

Lab Sample ID: 320-78145-31

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.50	0.050	mg/Kg		08/27/21 21:26	09/01/21 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 131*	*08/27/21 21:26*	*09/01/21 17:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.41	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.69	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1,2-Trichloroethane	ND		5.0	0.44	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1-Dichloroethane	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1-Dichloroethene	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1-Dichloropropene	ND		5.0	0.37	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2,3-Trichlorobenzene	ND		5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2,3-Trichloropropane	ND		5.0	0.77	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2,4-Trichlorobenzene	ND		5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2,4-Trimethylbenzene	ND		5.0	0.51	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2-Dibromo-3-Chloropropane	ND		10	0.89	ug/Kg		08/27/21 21:26	09/01/21 17:24	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-7-2

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-31

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2-Dichlorobenzene	ND		5.0	0.65	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2-Dichloroethane	ND		5.0	0.74	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2-Dichloropropane	ND		5.0	0.60	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,3,5-Trimethylbenzene	ND		5.0	0.35	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,3-Dichlorobenzene	ND		5.0	0.30	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,3-Dichloropropane	ND		5.0	0.57	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,4-Dichlorobenzene	ND		5.0	0.79	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
2,2-Dichloropropane	ND		5.0	0.38	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
2-Chlorotoluene	ND		5.0	0.63	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
4-Chlorotoluene	ND		5.0	0.87	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromobenzene	ND		5.0	0.52	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromochloromethane	ND		5.0	0.95	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromodichloromethane	ND		5.0	0.53	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromoform	ND		5.0	0.40	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromomethane	ND		5.0	0.87	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Carbon tetrachloride	ND		5.0	0.53	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Chlorobenzene	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Chloroethane	ND		5.0	0.45	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Chloroform	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Chloromethane	ND		5.0	0.50	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
cis-1,2-Dichloroethene	ND		5.0	0.90	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
cis-1,3-Dichloropropene	ND		5.0	0.65	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Dibromomethane	ND		5.0	0.58	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Dichlorodifluoromethane	ND	*+ *1	5.0	0.90	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Ethylbenzene	ND		5.0	0.34	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Hexachlorobutadiene	ND		5.0	0.33	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Isopropylbenzene	ND		5.0	0.52	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Methylene Chloride	ND		10	0.85	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
m-Xylene & p-Xylene	ND		5.0	0.82	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Naphthalene	ND		5.0	0.64	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
n-Butylbenzene	ND		5.0	0.67	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
N-Propylbenzene	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
o-Xylene	ND		5.0	0.33	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
p-Isopropyltoluene	ND		5.0	0.64	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
sec-Butylbenzene	ND		5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Styrene	ND		5.0	0.31	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
tert-Butylbenzene	ND		5.0	0.54	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Tetrachloroethene	ND		5.0	0.62	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Toluene	ND		5.0	0.62	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
trans-1,2-Dichloroethene	ND		5.0	0.38	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
trans-1,3-Dichloropropene	ND		5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Trichloroethene	ND		5.0	0.60	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Trichlorofluoromethane	ND		5.0	0.34	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Vinyl chloride	ND	*+	5.0	0.36	ug/Kg		08/27/21 21:26	09/01/21 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*32 - 156*	*08/27/21 21:26*	*09/01/21 17:24*	*1*
4-Bromofluorobenzene (Surr)	*107*		*63 - 143*	*08/27/21 21:26*	*09/01/21 17:24*	*1*
Dibromofluoromethane (Surr)	*108*		*55 - 129*	*08/27/21 21:26*	*09/01/21 17:24*	*1*

Client Sample ID: SB-7-2

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-31

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*114*		*63 - 138*	*08/27/21 21:26*	*09/01/21 17:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98	0.49	mg/Kg		08/28/21 07:22	08/31/21 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*44*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 04:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.088	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Arsenic	**8.9**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Barium	**120**		0.98	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Beryllium	**0.77**		0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Cadmium	**0.24**		0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Cobalt	**13**		0.49	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Chromium	**53**		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Copper	**34**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Molybdenum	**1.0**	**J**	2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Nickel	**68**		0.98	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Lead	**10**		0.98	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Antimony	ND		2.0	0.92	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Thallium	**0.96**	**J**	2.0	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Vanadium	**46**		0.49	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Zinc	**81**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:55	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**	**J**	0.042	0.0091	mg/Kg		09/02/21 09:00	09/02/21 16:08	1

Surrogate Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(32-156)	(63-143)	(55-129)	(63-138)
320-78145-1	SB-1-1.5	108	83 *3	117	106
320-78145-2	SB-1-2.5	112	110	113	111
320-78145-6	SB-2-1.0	103	89	113	109
320-78145-7	SB-2-2.0	107	111	113	114
320-78145-10 - RA	SB-3-1.5	102	94	111	109
320-78145-11	SB-3-2.5	101	97	109	108
320-78145-15	SB-4-1	101	99	109	112
320-78145-20	SB-5-01	101	99	110	110
320-78145-25 - RA	SB-6-01	105	91	113	109
320-78145-26	SB-6-02	102	97	110	112
320-78145-30	SB-7-1	99	104	110	112
320-78145-31	SB-7-2	102	107	108	114
LCS 320-521640/9	Lab Control Sample	102	112	111	117
LCS 320-522017/3	Lab Control Sample	104	112	111	116
LCSD 320-521640/31	Lab Control Sample Dup	103	109	109	115
LCSD 320-522017/4	Lab Control Sample Dup	103	112	112	117
MB 320-521640/12	Method Blank	100	111	110	114
MB 320-522017/7	Method Blank	101	111	111	112

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	(70-131)
320-78145-1	SB-1-1.5	83
320-78145-2	SB-1-2.5	80
320-78145-6	SB-2-1.0	89
320-78145-7	SB-2-2.0	95
320-78145-10	SB-3-1.5	86
320-78145-11	SB-3-2.5	97
320-78145-15	SB-4-1	99
320-78145-20	SB-5-01	99
320-78145-25	SB-6-01	88
320-78145-26	SB-6-02	97
320-78145-30	SB-7-1	104
320-78145-31	SB-7-2	107
LCS 320-521639/5	Lab Control Sample	112
LCSD 320-521639/6	Lab Control Sample Dup	111
MB 320-521639/12	Method Blank	111

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**OTPH1 (51-111)**							
320-78145-1	SB-1-1.5	32 S1-							
320-78145-2	SB-1-2.5	41 S1-							
320-78145-6	SB-2-1.0	32 S1-							
320-78145-7	SB-2-2.0	36 S1-							
320-78145-10	SB-3-1.5	37 S1-							
320-78145-11	SB-3-2.5	41 S1-							
320-78145-15	SB-4-1	10 S1-							
320-78145-15 MS	SB-4-1	21 S1-							
320-78145-15 MSD	SB-4-1	23 S1-							
320-78145-20	SB-5-01	42 S1-							
320-78145-25	SB-6-01	48 S1-							
320-78145-26	SB-6-02	50 S1-							
320-78145-30	SB-7-1	59							
320-78145-31	SB-7-2	44 S1-							
LCS 320-520594/2-A	Lab Control Sample	76							
MB 320-520594/1-A	Method Blank	63							

Surrogate Legend

OTPH = o-Terphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-521640/12
Matrix: Solid
Analysis Batch: 521640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.26	ug/Kg			09/01/21 12:32	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.41	ug/Kg			09/01/21 12:32	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			09/01/21 12:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.68	ug/Kg			09/01/21 12:32	1
1,1,2-Trichloroethane	ND		5.0	0.44	ug/Kg			09/01/21 12:32	1
1,1-Dichloroethane	ND		5.0	0.29	ug/Kg			09/01/21 12:32	1
1,1-Dichloroethene	ND		5.0	0.26	ug/Kg			09/01/21 12:32	1
1,1-Dichloropropene	ND		5.0	0.37	ug/Kg			09/01/21 12:32	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg			09/01/21 12:32	1
1,2,3-Trichloropropane	ND		5.0	0.76	ug/Kg			09/01/21 12:32	1
1,2,4-Trichlorobenzene	ND		5.0	0.75	ug/Kg			09/01/21 12:32	1
1,2,4-Trimethylbenzene	ND		5.0	0.51	ug/Kg			09/01/21 12:32	1
1,2-Dibromo-3-Chloropropane	ND		10	0.88	ug/Kg			09/01/21 12:32	1
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg			09/01/21 12:32	1
1,2-Dichlorobenzene	ND		5.0	0.64	ug/Kg			09/01/21 12:32	1
1,2-Dichloroethane	ND		5.0	0.73	ug/Kg			09/01/21 12:32	1
1,2-Dichloropropane	ND		5.0	0.60	ug/Kg			09/01/21 12:32	1
1,3,5-Trimethylbenzene	ND		5.0	0.35	ug/Kg			09/01/21 12:32	1
1,3-Dichlorobenzene	ND		5.0	0.30	ug/Kg			09/01/21 12:32	1
1,3-Dichloropropane	ND		5.0	0.57	ug/Kg			09/01/21 12:32	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg			09/01/21 12:32	1
2,2-Dichloropropane	ND		5.0	0.38	ug/Kg			09/01/21 12:32	1
2-Chlorotoluene	ND		5.0	0.62	ug/Kg			09/01/21 12:32	1
4-Chlorotoluene	ND		5.0	0.86	ug/Kg			09/01/21 12:32	1
Bromobenzene	ND		5.0	0.52	ug/Kg			09/01/21 12:32	1
Bromochloromethane	ND		5.0	0.94	ug/Kg			09/01/21 12:32	1
Bromodichloromethane	ND		5.0	0.53	ug/Kg			09/01/21 12:32	1
Bromoform	ND		5.0	0.40	ug/Kg			09/01/21 12:32	1
Bromomethane	ND		5.0	0.86	ug/Kg			09/01/21 12:32	1
Carbon tetrachloride	ND		5.0	0.53	ug/Kg			09/01/21 12:32	1
Chlorobenzene	ND		5.0	0.29	ug/Kg			09/01/21 12:32	1
Chloroethane	ND		5.0	0.45	ug/Kg			09/01/21 12:32	1
Chloroform	ND		5.0	0.26	ug/Kg			09/01/21 12:32	1
Chloromethane	ND		5.0	0.50	ug/Kg			09/01/21 12:32	1
cis-1,2-Dichloroethene	ND		5.0	0.89	ug/Kg			09/01/21 12:32	1
cis-1,3-Dichloropropene	ND		5.0	0.64	ug/Kg			09/01/21 12:32	1
Dibromomethane	ND		5.0	0.58	ug/Kg			09/01/21 12:32	1
Dichlorodifluoromethane	ND		5.0	0.89	ug/Kg			09/01/21 12:32	1
Ethylbenzene	ND		5.0	0.34	ug/Kg			09/01/21 12:32	1
Hexachlorobutadiene	ND		5.0	0.33	ug/Kg			09/01/21 12:32	1
Isopropylbenzene	ND		5.0	0.52	ug/Kg			09/01/21 12:32	1
Methylene Chloride	ND		10	0.84	ug/Kg			09/01/21 12:32	1
m-Xylene & p-Xylene	ND		5.0	0.81	ug/Kg			09/01/21 12:32	1
Naphthalene	ND		5.0	0.63	ug/Kg			09/01/21 12:32	1
n-Butylbenzene	ND		5.0	0.66	ug/Kg			09/01/21 12:32	1
N-Propylbenzene	ND		5.0	0.29	ug/Kg			09/01/21 12:32	1
o-Xylene	ND		5.0	0.33	ug/Kg			09/01/21 12:32	1
p-Isopropyltoluene	ND		5.0	0.63	ug/Kg			09/01/21 12:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-521640/12
Matrix: Solid
Analysis Batch: 521640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	0.75	ug/Kg			09/01/21 12:32	1
Styrene	ND		5.0	0.31	ug/Kg			09/01/21 12:32	1
tert-Butylbenzene	ND		5.0	0.54	ug/Kg			09/01/21 12:32	1
Tetrachloroethene	ND		5.0	0.61	ug/Kg			09/01/21 12:32	1
Toluene	ND		5.0	0.61	ug/Kg			09/01/21 12:32	1
trans-1,2-Dichloroethene	ND		5.0	0.38	ug/Kg			09/01/21 12:32	1
trans-1,3-Dichloropropene	ND		5.0	0.75	ug/Kg			09/01/21 12:32	1
Trichloroethene	ND		5.0	0.60	ug/Kg			09/01/21 12:32	1
Trichlorofluoromethane	ND		5.0	0.34	ug/Kg			09/01/21 12:32	1
Vinyl chloride	ND		5.0	0.36	ug/Kg			09/01/21 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*32 - 156*		*09/01/21 12:32*	*1*
4-Bromofluorobenzene (Surr)	*111*		*63 - 143*		*09/01/21 12:32*	*1*
Dibromofluoromethane (Surr)	*110*		*55 - 129*		*09/01/21 12:32*	*1*
Toluene-d8 (Surr)	*114*		*63 - 138*		*09/01/21 12:32*	*1*

Lab Sample ID: LCS 320-521640/9
Matrix: Solid
Analysis Batch: 521640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	56.1		ug/Kg		112	78 - 128
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/Kg		109	77 - 134
1,1,1-Trichloroethane	50.0	61.0		ug/Kg		122	67 - 150
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/Kg		111	71 - 134
1,1,2-Trichloroethane	50.0	53.4		ug/Kg		107	80 - 128
1,1-Dichloroethane	50.0	55.5		ug/Kg		111	76 - 134
1,1-Dichloroethene	50.0	65.3		ug/Kg		131	66 - 136
1,1-Dichloropropene	50.0	62.0		ug/Kg		124	76 - 132
1,2,3-Trichlorobenzene	50.0	55.6		ug/Kg		111	54 - 140
1,2,3-Trichloropropane	50.0	55.2		ug/Kg		110	71 - 132
1,2,4-Trichlorobenzene	50.0	56.9		ug/Kg		114	48 - 145
1,2,4-Trimethylbenzene	50.0	59.4		ug/Kg		119	64 - 137
1,2-Dibromo-3-Chloropropane	50.0	54.3		ug/Kg		109	75 - 137
1,2-Dibromoethane (EDB)	50.0	52.1		ug/Kg		104	80 - 124
1,2-Dichlorobenzene	50.0	55.5		ug/Kg		111	68 - 121
1,2-Dichloroethane	50.0	49.3		ug/Kg		99	66 - 150
1,2-Dichloropropane	50.0	53.1		ug/Kg		106	80 - 129
1,3,5-Trimethylbenzene	50.0	61.1		ug/Kg		122	66 - 135
1,3-Dichlorobenzene	50.0	56.4		ug/Kg		113	64 - 126
1,3-Dichloropropane	50.0	52.6		ug/Kg		105	80 - 123
1,4-Dichlorobenzene	50.0	55.7		ug/Kg		111	65 - 124
2,2-Dichloropropane	50.0	62.6		ug/Kg		125	69 - 153
2-Chlorotoluene	50.0	60.2		ug/Kg		120	64 - 127
4-Chlorotoluene	50.0	59.0		ug/Kg		118	67 - 128
Bromobenzene	50.0	56.0		ug/Kg		112	67 - 132
Bromochloromethane	50.0	49.1		ug/Kg		98	80 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-521640/9
Matrix: Solid
Analysis Batch: 521640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	50.5		ug/Kg		101	80 - 137
Bromoform	50.0	52.2		ug/Kg		104	80 - 136
Bromomethane	50.0	55.2		ug/Kg		110	48 - 164
Carbon tetrachloride	50.0	62.7		ug/Kg		125	62 - 154
Chlorobenzene	50.0	56.5		ug/Kg		113	74 - 125
Chloroethane	50.0	58.4		ug/Kg		117	54 - 148
Chloroform	50.0	53.7		ug/Kg		107	78 - 135
Chloromethane	50.0	61.6		ug/Kg		123	60 - 141
cis-1,2-Dichloroethene	50.0	54.3		ug/Kg		109	74 - 131
cis-1,3-Dichloropropene	50.0	49.2		ug/Kg		98	80 - 134
Dibromomethane	50.0	50.3		ug/Kg		101	80 - 129
Dichlorodifluoromethane	50.0	70.2	*+	ug/Kg		140	60 - 130
Ethylbenzene	50.0	60.6		ug/Kg		121	72 - 125
Hexachlorobutadiene	50.0	63.4		ug/Kg		127	52 - 140
Isopropylbenzene	50.0	60.4		ug/Kg		121	69 - 137
Methylene Chloride	50.0	52.5		ug/Kg		105	77 - 125
m-Xylene & p-Xylene	50.0	60.5		ug/Kg		121	73 - 128
Naphthalene	50.0	56.2		ug/Kg		112	53 - 140
n-Butylbenzene	50.0	62.3		ug/Kg		125	68 - 136
N-Propylbenzene	50.0	63.4		ug/Kg		127	63 - 128
o-Xylene	50.0	58.4		ug/Kg		117	76 - 127
p-Isopropyltoluene	50.0	62.6		ug/Kg		125	64 - 137
sec-Butylbenzene	50.0	63.5		ug/Kg		127	68 - 131
Styrene	50.0	54.9		ug/Kg		110	79 - 128
tert-Butylbenzene	50.0	62.2		ug/Kg		124	67 - 131
Tetrachloroethene	50.0	65.1		ug/Kg		130	65 - 135
Toluene	50.0	61.3		ug/Kg		123	80 - 124
trans-1,2-Dichloroethene	50.0	59.9		ug/Kg		120	67 - 135
trans-1,3-Dichloropropene	50.0	49.3		ug/Kg		99	80 - 148
Trichloroethene	50.0	58.8		ug/Kg		118	80 - 126
Trichlorofluoromethane	50.0	66.9		ug/Kg		134	43 - 158
Vinyl chloride	50.0	67.5	*+	ug/Kg		135	67 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*32 - 156*
4-Bromofluorobenzene (Surr)	*112*		*63 - 143*
Dibromofluoromethane (Surr)	*111*		*55 - 129*
Toluene-d8 (Surr)	*117*		*63 - 138*

Lab Sample ID: LCSD 320-521640/31
Matrix: Solid
Analysis Batch: 521640

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	52.8		ug/Kg		106	78 - 128	6	37
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	77 - 134	2	25
1,1,1-Trichloroethane	50.0	54.9		ug/Kg		110	67 - 150	10	43
1,1,2,2-Tetrachloroethane	50.0	59.0		ug/Kg		118	71 - 134	6	31

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-521640/31
Matrix: Solid
Analysis Batch: 521640

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	50.0	54.4		ug/Kg		109	80 - 128	2	41
1,1-Dichloroethane	50.0	53.2		ug/Kg		106	76 - 134	4	24
1,1-Dichloroethene	50.0	56.7		ug/Kg		113	66 - 136	14	42
1,1-Dichloropropene	50.0	57.3		ug/Kg		115	76 - 132	8	38
1,2,3-Trichlorobenzene	50.0	52.0		ug/Kg		104	54 - 140	7	42
1,2,3-Trichloropropane	50.0	59.9		ug/Kg		120	71 - 132	8	41
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	48 - 145	12	39
1,2,4-Trimethylbenzene	50.0	57.6		ug/Kg		115	64 - 137	3	41
1,2-Dibromo-3-Chloropropane	50.0	58.5		ug/Kg		117	75 - 137	7	48
1,2-Dibromoethane (EDB)	50.0	54.0		ug/Kg		108	80 - 124	4	39
1,2-Dichlorobenzene	50.0	53.2		ug/Kg		106	68 - 121	4	28
1,2-Dichloroethane	50.0	50.1		ug/Kg		100	66 - 150	2	36
1,2-Dichloropropane	50.0	51.4		ug/Kg		103	80 - 129	3	38
1,3,5-Trimethylbenzene	50.0	59.6		ug/Kg		119	66 - 135	2	42
1,3-Dichlorobenzene	50.0	53.5		ug/Kg		107	64 - 126	5	41
1,3-Dichloropropane	50.0	54.6		ug/Kg		109	80 - 123	4	39
1,4-Dichlorobenzene	50.0	52.7		ug/Kg		105	65 - 124	6	38
2,2-Dichloropropane	50.0	54.7		ug/Kg		109	69 - 153	13	47
2-Chlorotoluene	50.0	58.0		ug/Kg		116	64 - 127	4	41
4-Chlorotoluene	50.0	56.8		ug/Kg		114	67 - 128	4	40
Bromobenzene	50.0	55.5		ug/Kg		111	67 - 132	1	40
Bromochloromethane	50.0	48.8		ug/Kg		98	80 - 127	1	36
Bromodichloromethane	50.0	49.4		ug/Kg		99	80 - 137	2	37
Bromoform	50.0	51.5		ug/Kg		103	80 - 136	1	45
Bromomethane	50.0	46.7		ug/Kg		93	48 - 164	17	38
Carbon tetrachloride	50.0	56.2		ug/Kg		112	62 - 154	11	43
Chlorobenzene	50.0	54.9		ug/Kg		110	74 - 125	3	38
Chloroethane	50.0	51.1		ug/Kg		102	54 - 148	13	34
Chloroform	50.0	52.2		ug/Kg		104	78 - 135	3	23
Chloromethane	50.0	47.8		ug/Kg		96	60 - 141	25	36
cis-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	74 - 131	6	37
cis-1,3-Dichloropropene	50.0	48.6		ug/Kg		97	80 - 134	1	39
Dibromomethane	50.0	50.3		ug/Kg		101	80 - 129	0	37
Dichlorodifluoromethane	50.0	42.6	*1	ug/Kg		85	60 - 130	49	46
Ethylbenzene	50.0	57.8		ug/Kg		116	72 - 125	5	41
Hexachlorobutadiene	50.0	57.4		ug/Kg		115	52 - 140	10	38
Isopropylbenzene	50.0	58.2		ug/Kg		116	69 - 137	4	41
Methylene Chloride	50.0	49.8		ug/Kg		100	77 - 125	5	25
m-Xylene & p-Xylene	50.0	56.6		ug/Kg		113	73 - 128	7	40
Naphthalene	50.0	56.0		ug/Kg		112	53 - 140	0	46
n-Butylbenzene	50.0	59.2		ug/Kg		118	68 - 136	5	37
N-Propylbenzene	50.0	61.2		ug/Kg		122	63 - 128	3	42
o-Xylene	50.0	55.6		ug/Kg		111	76 - 127	5	40
p-Isopropyltoluene	50.0	60.6		ug/Kg		121	64 - 137	3	40
sec-Butylbenzene	50.0	62.8		ug/Kg		126	68 - 131	1	40
Styrene	50.0	53.1		ug/Kg		106	79 - 128	3	40
tert-Butylbenzene	50.0	63.2		ug/Kg		126	67 - 131	2	42
Tetrachloroethene	50.0	59.6		ug/Kg		119	65 - 135	9	39
Toluene	50.0	59.2		ug/Kg		118	80 - 124	3	39

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-521640/31
Matrix: Solid
Analysis Batch: 521640

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	54.2		ug/Kg		108	67 - 135	10	37
trans-1,3-Dichloropropene			50.0	47.9		ug/Kg		96	80 - 148	3	42
Trichloroethene			50.0	54.3		ug/Kg		109	80 - 126	8	40
Trichlorofluoromethane			50.0	55.2		ug/Kg		110	43 - 158	19	32
Vinyl chloride			50.0	51.8		ug/Kg		104	67 - 127	26	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*32 - 156*
4-Bromofluorobenzene (Surr)	*109*		*63 - 143*
Dibromofluoromethane (Surr)	*109*		*55 - 129*
Toluene-d8 (Surr)	*115*		*63 - 138*

Lab Sample ID: MB 320-522017/7
Matrix: Solid
Analysis Batch: 522017

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.26	ug/Kg			09/02/21 11:51	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.41	ug/Kg			09/02/21 11:51	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			09/02/21 11:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.68	ug/Kg			09/02/21 11:51	1
1,1,2-Trichloroethane	ND		5.0	0.44	ug/Kg			09/02/21 11:51	1
1,1-Dichloroethane	ND		5.0	0.29	ug/Kg			09/02/21 11:51	1
1,1-Dichloroethene	ND		5.0	0.26	ug/Kg			09/02/21 11:51	1
1,1-Dichloropropene	ND		5.0	0.37	ug/Kg			09/02/21 11:51	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg			09/02/21 11:51	1
1,2,3-Trichloropropane	ND		5.0	0.76	ug/Kg			09/02/21 11:51	1
1,2,4-Trichlorobenzene	ND		5.0	0.75	ug/Kg			09/02/21 11:51	1
1,2,4-Trimethylbenzene	ND		5.0	0.51	ug/Kg			09/02/21 11:51	1
1,2-Dibromo-3-Chloropropane	ND		10	0.88	ug/Kg			09/02/21 11:51	1
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg			09/02/21 11:51	1
1,2-Dichlorobenzene	ND		5.0	0.64	ug/Kg			09/02/21 11:51	1
1,2-Dichloroethane	ND		5.0	0.73	ug/Kg			09/02/21 11:51	1
1,2-Dichloropropane	ND		5.0	0.60	ug/Kg			09/02/21 11:51	1
1,3,5-Trimethylbenzene	ND		5.0	0.35	ug/Kg			09/02/21 11:51	1
1,3-Dichlorobenzene	ND		5.0	0.30	ug/Kg			09/02/21 11:51	1
1,3-Dichloropropane	ND		5.0	0.57	ug/Kg			09/02/21 11:51	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg			09/02/21 11:51	1
2,2-Dichloropropane	ND		5.0	0.38	ug/Kg			09/02/21 11:51	1
2-Chlorotoluene	ND		5.0	0.62	ug/Kg			09/02/21 11:51	1
4-Chlorotoluene	ND		5.0	0.86	ug/Kg			09/02/21 11:51	1
Bromobenzene	ND		5.0	0.52	ug/Kg			09/02/21 11:51	1
Bromochloromethane	ND		5.0	0.94	ug/Kg			09/02/21 11:51	1
Bromodichloromethane	ND		5.0	0.53	ug/Kg			09/02/21 11:51	1
Bromoform	ND		5.0	0.40	ug/Kg			09/02/21 11:51	1
Bromomethane	ND		5.0	0.86	ug/Kg			09/02/21 11:51	1
Carbon tetrachloride	ND		5.0	0.53	ug/Kg			09/02/21 11:51	1
Chlorobenzene	ND		5.0	0.29	ug/Kg			09/02/21 11:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-522017/7
Matrix: Solid
Analysis Batch: 522017

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		5.0	0.45	ug/Kg			09/02/21 11:51	1
Chloroform	ND		5.0	0.26	ug/Kg			09/02/21 11:51	1
Chloromethane	ND		5.0	0.50	ug/Kg			09/02/21 11:51	1
cis-1,2-Dichloroethene	ND		5.0	0.89	ug/Kg			09/02/21 11:51	1
cis-1,3-Dichloropropene	ND		5.0	0.64	ug/Kg			09/02/21 11:51	1
Dibromomethane	ND		5.0	0.58	ug/Kg			09/02/21 11:51	1
Dichlorodifluoromethane	ND		5.0	0.89	ug/Kg			09/02/21 11:51	1
Ethylbenzene	ND		5.0	0.34	ug/Kg			09/02/21 11:51	1
Hexachlorobutadiene	ND		5.0	0.33	ug/Kg			09/02/21 11:51	1
Isopropylbenzene	ND		5.0	0.52	ug/Kg			09/02/21 11:51	1
Methylene Chloride	ND		10	0.84	ug/Kg			09/02/21 11:51	1
m-Xylene & p-Xylene	ND		5.0	0.81	ug/Kg			09/02/21 11:51	1
Naphthalene	ND		5.0	0.63	ug/Kg			09/02/21 11:51	1
n-Butylbenzene	ND		5.0	0.66	ug/Kg			09/02/21 11:51	1
N-Propylbenzene	ND		5.0	0.29	ug/Kg			09/02/21 11:51	1
o-Xylene	ND		5.0	0.33	ug/Kg			09/02/21 11:51	1
p-Isopropyltoluene	ND		5.0	0.63	ug/Kg			09/02/21 11:51	1
sec-Butylbenzene	ND		5.0	0.75	ug/Kg			09/02/21 11:51	1
Styrene	ND		5.0	0.31	ug/Kg			09/02/21 11:51	1
tert-Butylbenzene	ND		5.0	0.54	ug/Kg			09/02/21 11:51	1
Tetrachloroethene	ND		5.0	0.61	ug/Kg			09/02/21 11:51	1
Toluene	ND		5.0	0.61	ug/Kg			09/02/21 11:51	1
trans-1,2-Dichloroethene	ND		5.0	0.38	ug/Kg			09/02/21 11:51	1
trans-1,3-Dichloropropene	ND		5.0	0.75	ug/Kg			09/02/21 11:51	1
Trichloroethene	ND		5.0	0.60	ug/Kg			09/02/21 11:51	1
Trichlorofluoromethane	ND		5.0	0.34	ug/Kg			09/02/21 11:51	1
Vinyl chloride	ND		5.0	0.36	ug/Kg			09/02/21 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*32 - 156*		*09/02/21 11:51*	*1*
4-Bromofluorobenzene (Surr)	*111*		*63 - 143*		*09/02/21 11:51*	*1*
Dibromofluoromethane (Surr)	*111*		*55 - 129*		*09/02/21 11:51*	*1*
Toluene-d8 (Surr)	*112*		*63 - 138*		*09/02/21 11:51*	*1*

Lab Sample ID: LCS 320-522017/3
Matrix: Solid
Analysis Batch: 522017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	55.2		ug/Kg		110	78 - 128
1,1,1,2-Tetrachloroethane	50.0	55.7		ug/Kg		111	77 - 134
1,1,1-Trichloroethane	50.0	58.4		ug/Kg		117	67 - 150
1,1,2,2-Tetrachloroethane	50.0	58.4		ug/Kg		117	71 - 134
1,1,2-Trichloroethane	50.0	56.3		ug/Kg		113	80 - 128
1,1-Dichloroethane	50.0	55.0		ug/Kg		110	76 - 134
1,1-Dichloroethene	50.0	59.1		ug/Kg		118	66 - 136
1,1-Dichloropropene	50.0	61.3		ug/Kg		123	76 - 132
1,2,3-Trichlorobenzene	50.0	58.5		ug/Kg		117	54 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-522017/3
Matrix: Solid
Analysis Batch: 522017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	60.8		ug/Kg		122	71 - 132
1,2,4-Trichlorobenzene	50.0	58.7		ug/Kg		117	48 - 145
1,2,4-Trimethylbenzene	50.0	60.9		ug/Kg		122	64 - 137
1,2-Dibromo-3-Chloropropane	50.0	60.0		ug/Kg		120	75 - 137
1,2-Dibromoethane (EDB)	50.0	56.0		ug/Kg		112	80 - 124
1,2-Dichlorobenzene	50.0	56.6		ug/Kg		113	68 - 121
1,2-Dichloroethane	50.0	50.7		ug/Kg		101	66 - 150
1,2-Dichloropropane	50.0	53.6		ug/Kg		107	80 - 129
1,3,5-Trimethylbenzene	50.0	62.9		ug/Kg		126	66 - 135
1,3-Dichlorobenzene	50.0	58.3		ug/Kg		117	64 - 126
1,3-Dichloropropane	50.0	56.0		ug/Kg		112	80 - 123
1,4-Dichlorobenzene	50.0	57.6		ug/Kg		115	65 - 124
2,2-Dichloropropane	50.0	58.0		ug/Kg		116	69 - 153
2-Chlorotoluene	50.0	60.5		ug/Kg		121	64 - 127
4-Chlorotoluene	50.0	60.4		ug/Kg		121	67 - 128
Bromobenzene	50.0	58.0		ug/Kg		116	67 - 132
Bromochloromethane	50.0	50.0		ug/Kg		100	80 - 127
Bromodichloromethane	50.0	51.3		ug/Kg		103	80 - 137
Bromoform	50.0	55.1		ug/Kg		110	80 - 136
Bromomethane	50.0	47.6		ug/Kg		95	48 - 164
Carbon tetrachloride	50.0	59.6		ug/Kg		119	62 - 154
Chlorobenzene	50.0	57.1		ug/Kg		114	74 - 125
Chloroethane	50.0	51.7		ug/Kg		103	54 - 148
Chloroform	50.0	53.4		ug/Kg		107	78 - 135
Chloromethane	50.0	49.3		ug/Kg		99	60 - 141
cis-1,2-Dichloroethene	50.0	52.9		ug/Kg		106	74 - 131
cis-1,3-Dichloropropene	50.0	51.5		ug/Kg		103	80 - 134
Dibromomethane	50.0	52.3		ug/Kg		105	80 - 129
Dichlorodifluoromethane	50.0	44.2		ug/Kg		88	60 - 130
Ethylbenzene	50.0	60.9		ug/Kg		122	72 - 125
Hexachlorobutadiene	50.0	66.4		ug/Kg		133	52 - 140
Isopropylbenzene	50.0	61.2		ug/Kg		122	69 - 137
Methylene Chloride	50.0	50.1		ug/Kg		100	77 - 125
m-Xylene & p-Xylene	50.0	60.2		ug/Kg		120	73 - 128
Naphthalene	50.0	59.1		ug/Kg		118	53 - 140
n-Butylbenzene	50.0	66.6		ug/Kg		133	68 - 136
N-Propylbenzene	50.0	65.7	*+	ug/Kg		131	63 - 128
o-Xylene	50.0	57.5		ug/Kg		115	76 - 127
p-Isopropyltoluene	50.0	65.9		ug/Kg		132	64 - 137
sec-Butylbenzene	50.0	67.3	*+	ug/Kg		135	68 - 131
Styrene	50.0	56.5		ug/Kg		113	79 - 128
tert-Butylbenzene	50.0	66.6	*+	ug/Kg		133	67 - 131
Tetrachloroethene	50.0	64.6		ug/Kg		129	65 - 135
Toluene	50.0	59.9		ug/Kg		120	80 - 124
trans-1,2-Dichloroethene	50.0	56.7		ug/Kg		113	67 - 135
trans-1,3-Dichloropropene	50.0	52.0		ug/Kg		104	80 - 148
Trichloroethene	50.0	57.7		ug/Kg		115	80 - 126
Trichlorofluoromethane	50.0	56.9		ug/Kg		114	43 - 158
Vinyl chloride	50.0	53.7		ug/Kg		107	67 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		32 - 156
4-Bromofluorobenzene (Surr)	112		63 - 143
Dibromofluoromethane (Surr)	111		55 - 129
Toluene-d8 (Surr)	116		63 - 138

Lab Sample ID: LCSD 320-522017/4
Matrix: Solid
Analysis Batch: 522017

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	54.7		ug/Kg		109	78 - 128	1	37
1,1,1,2-Tetrachloroethane			50.0	55.5		ug/Kg		111	77 - 134	0	25
1,1,1-Trichloroethane			50.0	59.2		ug/Kg		118	67 - 150	1	43
1,1,2,2-Tetrachloroethane			50.0	57.6		ug/Kg		115	71 - 134	1	31
1,1,2-Trichloroethane			50.0	54.9		ug/Kg		110	80 - 128	3	41
1,1-Dichloroethane			50.0	55.5		ug/Kg		111	76 - 134	1	24
1,1-Dichloroethene			50.0	59.0		ug/Kg		118	66 - 136	0	42
1,1-Dichloropropene			50.0	60.7		ug/Kg		121	76 - 132	1	38
1,2,3-Trichlorobenzene			50.0	56.4		ug/Kg		113	54 - 140	4	42
1,2,3-Trichloropropane			50.0	59.9		ug/Kg		120	71 - 132	1	41
1,2,4-Trichlorobenzene			50.0	57.4		ug/Kg		115	48 - 145	2	39
1,2,4-Trimethylbenzene			50.0	61.2		ug/Kg		122	64 - 137	0	41
1,2-Dibromo-3-Chloropropane			50.0	57.6		ug/Kg		115	75 - 137	4	48
1,2-Dibromoethane (EDB)			50.0	53.5		ug/Kg		107	80 - 124	5	39
1,2-Dichlorobenzene			50.0	55.7		ug/Kg		111	68 - 121	2	28
1,2-Dichloroethane			50.0	50.4		ug/Kg		101	66 - 150	1	36
1,2-Dichloropropane			50.0	53.1		ug/Kg		106	80 - 129	1	38
1,3,5-Trimethylbenzene			50.0	63.3		ug/Kg		127	66 - 135	1	42
1,3-Dichlorobenzene			50.0	58.2		ug/Kg		116	64 - 126	0	41
1,3-Dichloropropane			50.0	54.5		ug/Kg		109	80 - 123	3	39
1,4-Dichlorobenzene			50.0	57.1		ug/Kg		114	65 - 124	1	38
2,2-Dichloropropane			50.0	59.6		ug/Kg		119	69 - 153	3	47
2-Chlorotoluene			50.0	61.5		ug/Kg		123	64 - 127	2	41
4-Chlorotoluene			50.0	60.7		ug/Kg		121	67 - 128	0	40
Bromobenzene			50.0	58.1		ug/Kg		116	67 - 132	0	40
Bromochloromethane			50.0	49.6		ug/Kg		99	80 - 127	1	36
Bromodichloromethane			50.0	51.1		ug/Kg		102	80 - 137	0	37
Bromoform			50.0	52.4		ug/Kg		105	80 - 136	5	45
Bromomethane			50.0	47.7		ug/Kg		95	48 - 164	0	38
Carbon tetrachloride			50.0	60.1		ug/Kg		120	62 - 154	1	43
Chlorobenzene			50.0	56.6		ug/Kg		113	74 - 125	1	38
Chloroethane			50.0	52.3		ug/Kg		105	54 - 148	1	34
Chloroform			50.0	53.1		ug/Kg		106	78 - 135	0	23
Chloromethane			50.0	49.5		ug/Kg		99	60 - 141	0	36
cis-1,2-Dichloroethene			50.0	53.4		ug/Kg		107	74 - 131	1	37
cis-1,3-Dichloropropene			50.0	50.8		ug/Kg		102	80 - 134	1	39
Dibromomethane			50.0	51.4		ug/Kg		103	80 - 129	2	37
Dichlorodifluoromethane			50.0	42.7		ug/Kg		85	60 - 130	3	46
Ethylbenzene			50.0	59.7		ug/Kg		119	72 - 125	2	41
Hexachlorobutadiene			50.0	65.5		ug/Kg		131	52 - 140	1	38
Isopropylbenzene			50.0	60.6		ug/Kg		121	69 - 137	1	41

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-522017/4
Matrix: Solid
Analysis Batch: 522017

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	50.0	50.5		ug/Kg		101	77 - 125	1	25
m-Xylene & p-Xylene	50.0	59.3		ug/Kg		119	73 - 128	1	40
Naphthalene	50.0	57.2		ug/Kg		114	53 - 140	3	46
n-Butylbenzene	50.0	66.0		ug/Kg		132	68 - 136	1	37
N-Propylbenzene	50.0	66.0	*+	ug/Kg		132	63 - 128	1	42
o-Xylene	50.0	56.9		ug/Kg		114	76 - 127	1	40
p-Isopropyltoluene	50.0	65.6		ug/Kg		131	64 - 137	0	40
sec-Butylbenzene	50.0	67.3	*+	ug/Kg		135	68 - 131	0	40
Styrene	50.0	55.3		ug/Kg		111	79 - 128	2	40
tert-Butylbenzene	50.0	67.8	*+	ug/Kg		136	67 - 131	2	42
Tetrachloroethene	50.0	64.5		ug/Kg		129	65 - 135	0	39
Toluene	50.0	60.1		ug/Kg		120	80 - 124	0	39
trans-1,2-Dichloroethene	50.0	56.9		ug/Kg		114	67 - 135	0	37
trans-1,3-Dichloropropene	50.0	50.7		ug/Kg		101	80 - 148	3	42
Trichloroethene	50.0	57.4		ug/Kg		115	80 - 126	0	40
Trichlorofluoromethane	50.0	57.7		ug/Kg		115	43 - 158	1	32
Vinyl chloride	50.0	53.4		ug/Kg		107	67 - 127	1	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*32 - 156*
4-Bromofluorobenzene (Surr)	*112*		*63 - 143*
Dibromofluoromethane (Surr)	*112*		*55 - 129*
Toluene-d8 (Surr)	*117*		*63 - 138*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 320-521639/12
Matrix: Solid
Analysis Batch: 521639

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.50	0.050	mg/Kg			09/01/21 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 131*		*09/01/21 12:32*	*1*

Lab Sample ID: LCS 320-521639/5
Matrix: Solid
Analysis Batch: 521639

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C4-C12	1.00	1.06		mg/Kg		106	79 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 131*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 320-521639/6
Matrix: Solid
Analysis Batch: 521639

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C4-C12			1.00	1.13		mg/Kg		113	79 - 123	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 131*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 320-520594/1-A
Matrix: Solid
Analysis Batch: 521051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 520594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.50	mg/Kg		08/28/21 07:22	08/30/21 22:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*63*		*51 - 111*	*08/28/21 07:22*	*08/30/21 22:18*	*1*

Lab Sample ID: LCS 320-520594/2-A
Matrix: Solid
Analysis Batch: 521051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			10.0	9.58		mg/Kg		96	57 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*76*		*51 - 111*

Lab Sample ID: 320-78145-15 MS
Matrix: Solid
Analysis Batch: 521452

Client Sample ID: SB-4-1
Prep Type: Total/NA
Prep Batch: 520594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	17	F1 F2	9.81	14.7	F1	mg/Kg		-25	57 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*21*	*S1-*	*51 - 111*

Lab Sample ID: 320-78145-15 MSD
Matrix: Solid
Analysis Batch: 521452

Client Sample ID: SB-4-1
Prep Type: Total/NA
Prep Batch: 520594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	17	F1 F2	9.77	75.0	F1 F2	mg/Kg		592	57 - 132	134	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 320-78145-15 MSD
Matrix: Solid
Analysis Batch: 521452

Client Sample ID: SB-4-1
Prep Type: Total/NA
Prep Batch: 520594

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*23*	*S1-*	*51 - 111*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-521017/1-A
Matrix: Solid
Analysis Batch: 521620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 521017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.090	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Arsenic	ND		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Barium	ND		1.0	0.12	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Beryllium	ND		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Cadmium	ND		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Cobalt	ND		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Chromium	ND		0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Copper	0.252	J	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Molybdenum	ND		2.0	0.75	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Nickel	ND		1.0	0.24	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Lead	ND		1.0	0.26	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Antimony	ND		2.0	0.94	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Thallium	ND		2.0	0.84	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Vanadium	ND		0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Zinc	ND		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 12:36	1

Lab Sample ID: LCS 320-521017/2-A
Matrix: Solid
Analysis Batch: 521620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 521017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.05	4.34		mg/Kg		86	80 - 120
Arsenic	50.0	44.4		mg/Kg		89	80 - 120
Barium	50.0	45.8		mg/Kg		92	80 - 120
Beryllium	25.0	23.3		mg/Kg		93	80 - 120
Cadmium	25.0	23.1		mg/Kg		92	80 - 120
Cobalt	25.0	23.3		mg/Kg		93	80 - 120
Chromium	25.0	23.4		mg/Kg		93	80 - 120
Copper	25.0	22.8		mg/Kg		91	80 - 120
Molybdenum	25.0	23.2		mg/Kg		93	80 - 120
Nickel	25.0	22.6		mg/Kg		90	80 - 120
Lead	25.0	23.4		mg/Kg		94	80 - 120
Selenium	50.0	43.1		mg/Kg		86	80 - 120
Antimony	50.0	43.3		mg/Kg		87	80 - 120
Thallium	50.0	45.6		mg/Kg		91	80 - 120
Vanadium	25.0	23.1		mg/Kg		93	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 320-78145-1 MS
Matrix: Solid
Analysis Batch: 521620

Client Sample ID: SB-1-1.5
Prep Type: Total/NA
Prep Batch: 521017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		4.95	4.06		mg/Kg		82	80 - 120
Arsenic	3.5		49.0	45.8		mg/Kg		86	80 - 120
Barium	160	F1	49.0	225	F1	mg/Kg		128	80 - 120
Beryllium	0.62		24.5	22.7		mg/Kg		90	80 - 120
Cadmium	0.16	J	24.5	21.0		mg/Kg		85	80 - 120
Cobalt	8.9		24.5	28.9		mg/Kg		82	80 - 120
Chromium	51	F1	24.5	77.1		mg/Kg		107	80 - 120
Copper	26	B	24.5	49.5		mg/Kg		96	80 - 120
Molybdenum	ND		24.5	20.6		mg/Kg		84	80 - 120
Nickel	56	F1	24.5	67.8	F1	mg/Kg		50	80 - 120
Lead	9.3		24.5	30.9		mg/Kg		88	80 - 120
Selenium	ND		49.0	41.2		mg/Kg		84	80 - 120
Antimony	1.0	J F1	49.0	14.2	F1	mg/Kg		27	80 - 120
Thallium	0.87	J	49.0	41.6		mg/Kg		83	80 - 120
Vanadium	32	F1	24.5	62.0	F1	mg/Kg		121	80 - 120
Zinc	70		49.0	124		mg/Kg		109	80 - 120

Lab Sample ID: 320-78145-1 MSD
Matrix: Solid
Analysis Batch: 521620

Client Sample ID: SB-1-1.5
Prep Type: Total/NA
Prep Batch: 521017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		4.95	4.00		mg/Kg		81	80 - 120	2	35
Arsenic	3.5		49.0	45.5		mg/Kg		86	80 - 120	1	35
Barium	160	F1	49.0	218		mg/Kg		114	80 - 120	3	35
Beryllium	0.62		24.5	22.2		mg/Kg		88	80 - 120	2	35
Cadmium	0.16	J	24.5	20.7		mg/Kg		84	80 - 120	2	35
Cobalt	8.9		24.5	29.4		mg/Kg		84	80 - 120	2	35
Chromium	51	F1	24.5	82.9	F1	mg/Kg		131	80 - 120	7	35
Copper	26	B	24.5	48.8		mg/Kg		93	80 - 120	1	35
Molybdenum	ND		24.5	20.3		mg/Kg		83	80 - 120	1	35
Nickel	56	F1	24.5	79.7		mg/Kg		98	80 - 120	16	35
Lead	9.3		24.5	30.2		mg/Kg		86	80 - 120	2	35
Selenium	ND		49.0	40.6		mg/Kg		83	80 - 120	2	35
Antimony	1.0	J F1	49.0	13.4	F1	mg/Kg		25	80 - 120	6	35
Thallium	0.87	J	49.0	40.8		mg/Kg		82	80 - 120	2	35
Vanadium	32	F1	24.5	59.8		mg/Kg		112	80 - 120	4	35
Zinc	70		49.0	119		mg/Kg		99	80 - 120	4	35

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-521730/11-A
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 521730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.040	0.0086	mg/Kg		09/02/21 09:00	09/02/21 12:56	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 320-521730/12-A
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 521730

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.169		mg/Kg		102	86 - 114		

Lab Sample ID: LCSD 320-521730/13-A
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 521730

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.167	0.160		mg/Kg		96	86 - 114	6	17

Lab Sample ID: 320-78145-1 MS
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: SB-1-1.5
Prep Type: Total/NA
Prep Batch: 521730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.089		0.164	0.257		mg/Kg		103	86 - 114		

Lab Sample ID: 320-78145-1 MSD
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: SB-1-1.5
Prep Type: Total/NA
Prep Batch: 521730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.089		0.175	0.266		mg/Kg		101	86 - 114	3	17

QC Association Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

GC/MS VOA

Prep Batch: 521108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	5035	
320-78145-2	SB-1-2.5	Total/NA	Solid	5035	

Prep Batch: 521208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-6	SB-2-1.0	Total/NA	Solid	5035	
320-78145-7	SB-2-2.0	Total/NA	Solid	5035	
320-78145-10 - RA	SB-3-1.5	Total/NA	Solid	5035	
320-78145-10	SB-3-1.5	Total/NA	Solid	5035	
320-78145-11	SB-3-2.5	Total/NA	Solid	5035	
320-78145-15	SB-4-1	Total/NA	Solid	5035	
320-78145-20	SB-5-01	Total/NA	Solid	5035	
320-78145-25	SB-6-01	Total/NA	Solid	5035	
320-78145-25 - RA	SB-6-01	Total/NA	Solid	5035	
320-78145-26	SB-6-02	Total/NA	Solid	5035	
320-78145-30	SB-7-1	Total/NA	Solid	5035	
320-78145-31	SB-7-2	Total/NA	Solid	5035	

Analysis Batch: 521639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	8260B/CA_LUFT MS	521108
320-78145-2	SB-1-2.5	Total/NA	Solid	8260B/CA_LUFT MS	521108
320-78145-6	SB-2-1.0	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-7	SB-2-2.0	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-10	SB-3-1.5	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-11	SB-3-2.5	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-15	SB-4-1	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-20	SB-5-01	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-25	SB-6-01	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-26	SB-6-02	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-30	SB-7-1	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-31	SB-7-2	Total/NA	Solid	8260B/CA_LUFT MS	521208
MB 320-521639/12	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 320-521639/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 320-521639/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 521640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	8260B	521108
320-78145-6	SB-2-1.0	Total/NA	Solid	8260B	521208

GC/MS VOA (Continued)

Analysis Batch: 521640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-11	SB-3-2.5	Total/NA	Solid	8260B	521208
320-78145-15	SB-4-1	Total/NA	Solid	8260B	521208
320-78145-20	SB-5-01	Total/NA	Solid	8260B	521208
320-78145-26	SB-6-02	Total/NA	Solid	8260B	521208
320-78145-30	SB-7-1	Total/NA	Solid	8260B	521208
320-78145-31	SB-7-2	Total/NA	Solid	8260B	521208
MB 320-521640/12	Method Blank	Total/NA	Solid	8260B	
LCS 320-521640/9	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 320-521640/31	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 522017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-2	SB-1-2.5	Total/NA	Solid	8260B	521108
320-78145-7	SB-2-2.0	Total/NA	Solid	8260B	521208
320-78145-10 - RA	SB-3-1.5	Total/NA	Solid	8260B	521208
320-78145-25 - RA	SB-6-01	Total/NA	Solid	8260B	521208
MB 320-522017/7	Method Blank	Total/NA	Solid	8260B	
LCS 320-522017/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 320-522017/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 520594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	3550B	
320-78145-2	SB-1-2.5	Total/NA	Solid	3550B	
320-78145-6	SB-2-1.0	Total/NA	Solid	3550B	
320-78145-7	SB-2-2.0	Total/NA	Solid	3550B	
320-78145-10	SB-3-1.5	Total/NA	Solid	3550B	
320-78145-11	SB-3-2.5	Total/NA	Solid	3550B	
320-78145-15	SB-4-1	Total/NA	Solid	3550B	
320-78145-20	SB-5-01	Total/NA	Solid	3550B	
320-78145-25	SB-6-01	Total/NA	Solid	3550B	
320-78145-26	SB-6-02	Total/NA	Solid	3550B	
320-78145-30	SB-7-1	Total/NA	Solid	3550B	
320-78145-31	SB-7-2	Total/NA	Solid	3550B	
MB 320-520594/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 320-520594/2-A	Lab Control Sample	Total/NA	Solid	3550B	
320-78145-15 MS	SB-4-1	Total/NA	Solid	3550B	
320-78145-15 MSD	SB-4-1	Total/NA	Solid	3550B	

Analysis Batch: 521051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	8015B	520594
320-78145-2	SB-1-2.5	Total/NA	Solid	8015B	520594
320-78145-6	SB-2-1.0	Total/NA	Solid	8015B	520594
320-78145-7	SB-2-2.0	Total/NA	Solid	8015B	520594
320-78145-10	SB-3-1.5	Total/NA	Solid	8015B	520594
320-78145-11	SB-3-2.5	Total/NA	Solid	8015B	520594
320-78145-20	SB-5-01	Total/NA	Solid	8015B	520594
320-78145-25	SB-6-01	Total/NA	Solid	8015B	520594

GC Semi VOA (Continued)

Analysis Batch: 521051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-26	SB-6-02	Total/NA	Solid	8015B	520594
320-78145-30	SB-7-1	Total/NA	Solid	8015B	520594
320-78145-31	SB-7-2	Total/NA	Solid	8015B	520594
MB 320-520594/1-A	Method Blank	Total/NA	Solid	8015B	520594
LCS 320-520594/2-A	Lab Control Sample	Total/NA	Solid	8015B	520594

Analysis Batch: 521452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-15	SB-4-1	Total/NA	Solid	8015B	520594
320-78145-15 MS	SB-4-1	Total/NA	Solid	8015B	520594
320-78145-15 MSD	SB-4-1	Total/NA	Solid	8015B	520594

Metals

Prep Batch: 521017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	3050B	
320-78145-2	SB-1-2.5	Total/NA	Solid	3050B	
320-78145-6	SB-2-1.0	Total/NA	Solid	3050B	
320-78145-7	SB-2-2.0	Total/NA	Solid	3050B	
320-78145-10	SB-3-1.5	Total/NA	Solid	3050B	
320-78145-11	SB-3-2.5	Total/NA	Solid	3050B	
320-78145-15	SB-4-1	Total/NA	Solid	3050B	
320-78145-20	SB-5-01	Total/NA	Solid	3050B	
320-78145-25	SB-6-01	Total/NA	Solid	3050B	
320-78145-26	SB-6-02	Total/NA	Solid	3050B	
320-78145-30	SB-7-1	Total/NA	Solid	3050B	
320-78145-31	SB-7-2	Total/NA	Solid	3050B	
MB 320-521017/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-521017/2-A	Lab Control Sample	Total/NA	Solid	3050B	
320-78145-1 MS	SB-1-1.5	Total/NA	Solid	3050B	
320-78145-1 MSD	SB-1-1.5	Total/NA	Solid	3050B	

Analysis Batch: 521620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	6010B	521017
320-78145-2	SB-1-2.5	Total/NA	Solid	6010B	521017
320-78145-6	SB-2-1.0	Total/NA	Solid	6010B	521017
320-78145-7	SB-2-2.0	Total/NA	Solid	6010B	521017
320-78145-10	SB-3-1.5	Total/NA	Solid	6010B	521017
320-78145-11	SB-3-2.5	Total/NA	Solid	6010B	521017
320-78145-15	SB-4-1	Total/NA	Solid	6010B	521017
320-78145-20	SB-5-01	Total/NA	Solid	6010B	521017
320-78145-25	SB-6-01	Total/NA	Solid	6010B	521017
320-78145-26	SB-6-02	Total/NA	Solid	6010B	521017
320-78145-30	SB-7-1	Total/NA	Solid	6010B	521017
320-78145-31	SB-7-2	Total/NA	Solid	6010B	521017
MB 320-521017/1-A	Method Blank	Total/NA	Solid	6010B	521017
LCS 320-521017/2-A	Lab Control Sample	Total/NA	Solid	6010B	521017
320-78145-1 MS	SB-1-1.5	Total/NA	Solid	6010B	521017
320-78145-1 MSD	SB-1-1.5	Total/NA	Solid	6010B	521017

QC Association Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Metals

Prep Batch: 521730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	7471A	
320-78145-2	SB-1-2.5	Total/NA	Solid	7471A	
320-78145-6	SB-2-1.0	Total/NA	Solid	7471A	
320-78145-7	SB-2-2.0	Total/NA	Solid	7471A	
320-78145-10	SB-3-1.5	Total/NA	Solid	7471A	
320-78145-11	SB-3-2.5	Total/NA	Solid	7471A	
320-78145-15	SB-4-1	Total/NA	Solid	7471A	
320-78145-20	SB-5-01	Total/NA	Solid	7471A	
320-78145-25	SB-6-01	Total/NA	Solid	7471A	
320-78145-26	SB-6-02	Total/NA	Solid	7471A	
320-78145-30	SB-7-1	Total/NA	Solid	7471A	
320-78145-31	SB-7-2	Total/NA	Solid	7471A	
MB 320-521730/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-521730/12-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 320-521730/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
320-78145-1 MS	SB-1-1.5	Total/NA	Solid	7471A	
320-78145-1 MSD	SB-1-1.5	Total/NA	Solid	7471A	

Analysis Batch: 522186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	7471A	521730
320-78145-2	SB-1-2.5	Total/NA	Solid	7471A	521730
320-78145-6	SB-2-1.0	Total/NA	Solid	7471A	521730
320-78145-7	SB-2-2.0	Total/NA	Solid	7471A	521730
320-78145-10	SB-3-1.5	Total/NA	Solid	7471A	521730
320-78145-11	SB-3-2.5	Total/NA	Solid	7471A	521730
320-78145-15	SB-4-1	Total/NA	Solid	7471A	521730
320-78145-20	SB-5-01	Total/NA	Solid	7471A	521730
320-78145-25	SB-6-01	Total/NA	Solid	7471A	521730
320-78145-26	SB-6-02	Total/NA	Solid	7471A	521730
MB 320-521730/11-A	Method Blank	Total/NA	Solid	7471A	521730
LCS 320-521730/12-A	Lab Control Sample	Total/NA	Solid	7471A	521730
LCSD 320-521730/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	521730
320-78145-1 MS	SB-1-1.5	Total/NA	Solid	7471A	521730
320-78145-1 MSD	SB-1-1.5	Total/NA	Solid	7471A	521730

Analysis Batch: 522279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-30	SB-7-1	Total/NA	Solid	7471A	521730
320-78145-31	SB-7-2	Total/NA	Solid	7471A	521730

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-1-1.5

Lab Sample ID: 320-78145-1

Date Collected: 08/26/21 13:12
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.499 g	5 mL	521108	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 12:55	SS	TAL SAC
Total/NA	Prep	5035			5.499 g	5 mL	521108	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 12:55	SS	TAL SAC
Total/NA	Prep	3550B			30.36 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/30/21 23:07	RCO	TAL SAC
Total/NA	Prep	3050B			1.00 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 12:44	GSH	TAL SAC
Total/NA	Prep	7471A			0.55 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 13:47	CF	TAL SAC

Client Sample ID: SB-1-2.5

Lab Sample ID: 320-78145-2

Date Collected: 08/26/21 13:12
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.639 g	5 mL	521108	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	522017	09/02/21 12:36	JRM	TAL SAC
Total/NA	Prep	5035			5.639 g	5 mL	521108	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 13:17	SS	TAL SAC
Total/NA	Prep	3550B			30.34 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/30/21 23:32	RCO	TAL SAC
Total/NA	Prep	3050B			1.01 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:05	GSH	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 13:58	CF	TAL SAC

Client Sample ID: SB-2-1.0

Lab Sample ID: 320-78145-6

Date Collected: 08/26/21 15:13
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.848 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 13:40	SS	TAL SAC
Total/NA	Prep	5035			3.848 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 13:40	SS	TAL SAC
Total/NA	Prep	3550B			30.57 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/30/21 23:56	RCO	TAL SAC
Total/NA	Prep	3050B			1.02 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:09	GSH	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:00	CF	TAL SAC

Client Sample ID: SB-2-2.0

Lab Sample ID: 320-78145-7

Date Collected: 08/26/21 15:13

Matrix: Solid

Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			0.17 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	522017	09/02/21 13:21	JRM	TAL SAC
Total/NA	Prep	5035			0.17 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 14:02	SS	TAL SAC
Total/NA	Prep	3550B			30.53 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 00:21	RCO	TAL SAC
Total/NA	Prep	3050B			1.05 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:13	GSH	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:02	CF	TAL SAC

Client Sample ID: SB-3-1.5

Lab Sample ID: 320-78145-10

Date Collected: 08/26/21 14:22

Matrix: Solid

Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		5.357 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	522017	09/02/21 13:43	JRM	TAL SAC
Total/NA	Prep	5035			5.357 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 14:24	SS	TAL SAC
Total/NA	Prep	3550B			30.41 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 00:45	RCO	TAL SAC
Total/NA	Prep	3050B			1.01 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:26	GSH	TAL SAC
Total/NA	Prep	7471A			0.63 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:03	CF	TAL SAC

Client Sample ID: SB-3-2.5

Lab Sample ID: 320-78145-11

Date Collected: 08/26/21 14:22

Matrix: Solid

Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.896 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 15:09	SS	TAL SAC
Total/NA	Prep	5035			4.896 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 15:09	SS	TAL SAC
Total/NA	Prep	3550B			30.26 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 01:10	RCO	TAL SAC
Total/NA	Prep	3050B			1.03 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:30	GSH	TAL SAC
Total/NA	Prep	7471A			0.62 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:05	CF	TAL SAC

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-4-1
Date Collected: 08/26/21 16:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.53 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 15:32	SS	TAL SAC
Total/NA	Prep	5035			5.53 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 15:32	SS	TAL SAC
Total/NA	Prep	3550B			30.36 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		10			521452	08/31/21 21:10	RCO	TAL SAC
Total/NA	Prep	3050B			1.04 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:34	GSH	TAL SAC
Total/NA	Prep	7471A			0.64 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:07	CF	TAL SAC

Client Sample ID: SB-5-01
Date Collected: 08/26/21 17:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.658 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 15:54	SS	TAL SAC
Total/NA	Prep	5035			4.658 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 15:54	SS	TAL SAC
Total/NA	Prep	3550B			30.98 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 02:48	RCO	TAL SAC
Total/NA	Prep	3050B			1.03 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:38	GSH	TAL SAC
Total/NA	Prep	7471A			0.64 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:09	CF	TAL SAC

Client Sample ID: SB-6-01
Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		3.829 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	522017	09/02/21 14:49	JRM	TAL SAC
Total/NA	Prep	5035			3.829 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 16:16	SS	TAL SAC
Total/NA	Prep	3550B			30.05 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 03:13	RCO	TAL SAC
Total/NA	Prep	3050B			1.02 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:42	GSH	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:10	CF	TAL SAC

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-6-02
Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.021 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 16:39	SS	TAL SAC
Total/NA	Prep	5035			5.021 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 16:39	SS	TAL SAC
Total/NA	Prep	3550B			30.30 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 03:38	RCO	TAL SAC
Total/NA	Prep	3050B			1.05 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:47	GSH	TAL SAC
Total/NA	Prep	7471A			0.58 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:12	CF	TAL SAC

Client Sample ID: SB-7-1
Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.925 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 17:01	SS	TAL SAC
Total/NA	Prep	5035			4.925 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 17:01	SS	TAL SAC
Total/NA	Prep	3550B			30.58 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 04:02	RCO	TAL SAC
Total/NA	Prep	3050B			1.01 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:51	GSH	TAL SAC
Total/NA	Prep	7471A			0.58 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522279	09/02/21 16:06	CF	TAL SAC

Client Sample ID: SB-7-2
Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.959 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 17:24	SS	TAL SAC
Total/NA	Prep	5035			4.959 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 17:24	SS	TAL SAC
Total/NA	Prep	3550B			30.61 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 04:27	RCO	TAL SAC
Total/NA	Prep	3050B			1.02 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:55	GSH	TAL SAC
Total/NA	Prep	7471A			0.57 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522279	09/02/21 16:08	CF	TAL SAC

Laboratory References:

EMLab P&K = EMLab P&K - South San Francisco, 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080, TEL (866)888-6653

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

Method Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAC
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL SAC
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC
CARB435	CARB 435 Asbestos	EM P&K	EMLab P&K
3050B	Preparation, Metals	SW846	TAL SAC
3550B	Ultrasonic Extraction	SW846	TAL SAC
5035	Closed System Purge and Trap	SW846	TAL SAC
7471A	Preparation, Mercury	SW846	TAL SAC

Protocol References:

EM P&K = EMLab P&K, Faciltiy Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab P&K = EMLab P&K - South San Francisco, 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080, TEL (866)888-6653

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78145-1	SB-1-1.5	Solid	08/26/21 13:12	08/27/21 09:15
320-78145-2	SB-1-2.5	Solid	08/26/21 13:12	08/27/21 09:15
320-78145-6	SB-2-1.0	Solid	08/26/21 15:13	08/27/21 09:15
320-78145-7	SB-2-2.0	Solid	08/26/21 15:13	08/27/21 09:15
320-78145-10	SB-3-1.5	Solid	08/26/21 14:22	08/27/21 09:15
320-78145-11	SB-3-2.5	Solid	08/26/21 14:22	08/27/21 09:15
320-78145-15	SB-4-1	Solid	08/26/21 16:05	08/27/21 09:15
320-78145-20	SB-5-01	Solid	08/26/21 17:05	08/27/21 09:15
320-78145-25	SB-6-01	Solid	08/26/21 17:36	08/27/21 09:15
320-78145-26	SB-6-02	Solid	08/26/21 17:36	08/27/21 09:15
320-78145-30	SB-7-1	Solid	08/26/21 18:25	08/27/21 09:15
320-78145-31	SB-7-2	Solid	08/26/21 18:25	08/27/21 09:15

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Report for:

Micah Smith
TestAmerica-West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Regarding: Project: 320-78145-1; 651 Martin, Santa Clara
EML ID: 2721118

Approved by:

Murali R Putty

Technical Manager
Murali Putty

Dates of Analysis:
Asbestos-CARB 435 (400 pt ct): 09-03-2021

Service SOPs: Asbestos-CARB 435 (400 pt ct) (EM-AS-S-1265)
NVLAP Lab Code 200728-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K
6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-West Sacramento
C/O: Micah Smith
Re: 320-78145-1; 651 Martin, Santa Clara

Date of Sampling: 08-26-2021
Date of Receipt: 08-30-2021
Date of Report: 09-03-2021

ASBESTOS POINT COUNT REPORT: CARB METHOD 435

Location:	SB-1-1.5 (320-78145-1)		
Total Points Counted:	400		
Lab ID-Version‡:	13017909-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

Location:	SB-2-1.0 (320-78145-6)		
Total Points Counted:	400		
Lab ID-Version‡:	13017910-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

Location:	SB-4-1 (320-78145-15)		
Total Points Counted:	400		
Lab ID-Version‡:	13017911-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-West Sacramento
C/O: Micah Smith
Re: 320-78145-1; 651 Martin, Santa Clara

Date of Sampling: 08-26-2021
Date of Receipt: 08-30-2021
Date of Report: 09-03-2021

ASBESTOS POINT COUNT REPORT: CARB METHOD 435

Location:	SB-6-01 (320-78145-25)		
Total Points Counted:	400		
Lab ID-Version‡:	13017912-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

Location:	SB-7-1 (320-78145-30)		
Total Points Counted:	400		
Lab ID-Version‡:	13017913-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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PO 170671 Revised 320-78145

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TPH: EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☒ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X										X		
SB-1-2.5		1312			X		X	X				X	X		NO PESTICIDES										
SB-1-3.5		1312			X		X	X				X	X												
SB-1-4.5		1312			X		X	X				X	X		ARCHIVE										
SB-1-5.5		1312			X		X	X				X	X												
SB-2-1.0		1513			X		X	X				X	X										X		
SB-2-2.0		1513			X		X	X				X	X		NO PESTICIDES										
SB-2-4.0		1513			X		X	X				X	X		ARCHIVE										
SB-2-5.0		1513			X		X	X				X	X												

Project Info.

Project Name/#: 651 Martin

PO#:

Sample Receipt

# of Containers:

Head Space:

Temp:

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: Signature Time / Printed Name Date / Company

2) Relinquished by: Signature Time / Printed Name Date / Company

320-78145 Chain of Custody

Company

1) Received by: Signature Time / Printed Name Date / Company

2) Received by: Signature Time / Printed Name Date / Company

3) Received by: Signature Time / Printed Name Date / Company

Revised 320-72148

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom. by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Cont.
SB-3-1.5	8/26/21	1422		Ice	X	X	X	X				X	X												X	
SB-3-2.5		1422			X		X	X				X	X		NO PESTICIDES											
SB-3-3.5		1422			X		X	X				X	X													
SB-3-4.5		1422			X		X	X				X	X		ARCHIVE											
SB-3-5.5		1422			X		X	X				X	X													
SB-4-1		1605			X		X	X				X	X												X	
SB-4-2		1605			X		X	X				X	X		ARCHIVE											
SB-4-3		1605			X		X	X				X	X													
SB-4-4		1605			X		X	X				X	X													
SB-4-5		1605			X		X	X				X	X													

Project Info.

Project Name/#: 651 Morton
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Remove ... 7843

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 6 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X												
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X											X	
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X	X	X	X				X	X												
SB-6-04		1736			X	X	X	X				X	X												
SB-6-05		1736			X	X	X	X				X	X												

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X										X		
SB-7-2		1825			X		X	X				X	X												
SB-7-3		1825			X		X	X				X	X												
SB-7-4		1825			X		X	X				X	X												
SB-7-5		1825			X		X	X				X	X												

NO PESTICIDES

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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PO 170671 Revised 320-78145

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Arsenic 6/35 CARB 4/35	Number of Containers
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X										X	
SB-1-2.5		1312			X		X	X				X	X		NO PESTICIDES									
SB-1-3.5		1312			X		X	X				X	X											
SB-1-4.5		1312			X		X	X				X	X		ARCHIVE									
SB-1-5.5		1312			X		X	X				X	X											
SB-2-1.0		1513			X		X	X				X	X										X	
SB-2-2.0		1513			X		X	X				X	X		NO PESTICIDES									
SB-2-4.0		1513			X		X	X				X	X		ARCHIVE									
SB-2-5.0		1513			X		X	X				X	X											

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: Signature Time / Printed Name Date / Company

2) Relinquished by: Signature Time / Printed Name Date / Company

320-78145 Chain of Custody

Company

1) Received by: Signature Time / Printed Name Date / Company

2) Received by: Signature Time / Printed Name Date / Company

3) Received by: Signature Time / Printed Name Date / Company

Revised 720-72148

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord 94520
Email: glieberman@trccompanies.com
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat trx	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☒ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		
SB-3-1.5	8/26/21	1422		Ice	X	X	X	X				X	X										X		
SB-3-2.5		1422			X		X	X				X	X		NO PESTICIDES										
SB-3-3.5		1422			X		X	X				X	X												
SB-3-4.5		1422			X		X	X				X	X												
SB-3-5.5		1422			X		X	X				X	X												
SB-4-0.1		1605			X		X	X				X	X										X		
SB-4-0.2		1605			X		X	X				X	X												
SB-4-0.3		1605			X		X	X				X	X												
SB-4-0.4		1605			X		X	X				X	X												
SB-4-0.5		1605			X		X	X				X	X												

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				✓			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Reference # 7849

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 6 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X		
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X										X		
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X		X	X				X	X												
SB-6-04		1736			X		X	X				X	X												
SB-6-05		1736			X		X	X				X	X												

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X												
SB-7-2		1825			X		X	X				X	X										X		
SB-7-3		1825			X		X	X				X	X												
SB-7-4		1825			X		X	X				X	X												
SB-7-5		1825			X		X	X				X	X												

NO PESTICIDES

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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320-75148

Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X									X	
SB-1-2.5		1312			X		X	X				X	X										
SB-1-3.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-4.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-5.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-1.0		1513			X		X	X				X	X									X	
SB-2-2.0		1513			X		X	X				X	X										
SB-2-4.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-5.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 5-3 4 8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27/21	Printed Name: Date:	Printed Name: Date:
Company: EMSS	Company:	Company:

9/3/2021

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300 - 75147

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat Mix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
SB-3-1.5	8/26/21	1422		Ice	X		X	X				X	X									X	
SB-3-2.5		1422			X		X	X				X	X										
SB-3-3.5		1422			X		X	X				X	X										
SB-3-4.5		1422			X		X	X				X	X										
SB-3-5.5		1422			X		X	X				X	X										
SB-4-1		1605			X		X	X				X	X									X	
SB-4-2		1605			X		X	X				X	X										
SB-4-3		1605			X		X	X				X	X										
SB-4-4		1605			X		X	X				X	X										
SB-4-5		1605			X		X	X				X	X										

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp: 5-3/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: KB	Signature:	Signature:
Time: 0915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date:	Date:	Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature:	Signature:	Signature:
Time: 915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date: 8/27/21	Date:	Date:
Company: EAS	Company:	Company:

9/3/2021

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom. by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X	
SB-5-02		1705			X		X	X				X	X											
SB-5-03		1705			X		X	X				X	X											
SB-5-04		1705			X		X	X				X	X											
SB-5-05		1705			X		X	X				X	X											
SB-6-01		1736			X		X	X				X	X										X	
SB-6-02		1736			X		X	X				X	X											
SB-6-03		1736			X	X	X	X				X	X											
SB-6-04		1736			X	X	X	X				X	X											
SB-6-05		1736			X	X	X	X				X	X											

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date 8/27	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time 915	Signature / Time	Signature / Time
Printed Name / Date 8/27/21	Printed Name / Date	Printed Name / Date
Company ERAS	Company	Company

9/3/2021

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of C
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X												
SB-7-2		1825			X		X	X				X	X										X		
SB-7-3		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-4		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-5		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53 / 4-8

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: FedEx Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-1-1.5 (320-78145-1)	8/26/21	13:12 Pacific		Solid			X	X	X	X	X	X								5	
SB-1-2.5 (320-78145-2)	8/26/21	13:12 Pacific		Solid			X		X	X	X	X								5	
SB-1-3.5 (320-78145-3)	8/26/21	13:12 Pacific		Solid									X	X	X	X	X			1	
SB-1-4.5 (320-78145-4)	8/26/21	13:12 Pacific		Solid									X	X	X	X	X			1	
SB-1-5.5 (320-78145-5)	8/26/21	13:12 Pacific		Solid									X	X	X	X	X			1	
SB-2-1.0 (320-78145-6)	8/26/21	15:13 Pacific		Solid			X	X	X	X	X	X								5	
SB-2-2.0 (320-78145-7)	8/26/21	15:13 Pacific		Solid			X		X	X	X	X								5	
SB-2-4.0 (320-78145-8)	8/26/21	15:13 Pacific		Solid									X	X	X	X	X			1	
SB-2-5.0 (320-78145-9)	8/26/21	15:13 Pacific		Solid									X	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 8/27/21 1615	Company ETAS	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2 & 2.7 & 4.4

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-3-1.5 (320-78145-10)	8/26/21	14:22 Pacific		Solid			X	X	X	X	X	X								5	
SB-3-2.5 (320-78145-11)	8/26/21	14:22 Pacific		Solid								X	X	X	X	X				5	
SB-3-3.5 (320-78145-12)	8/26/21	14:22 Pacific		Solid									X	X	X	X	X			1	
SB-3-4.5 (320-78145-13)	8/26/21	14:22 Pacific		Solid									X	X	X	X	X			1	
SB-3-5.5 (320-78145-14)	8/26/21	14:22 Pacific		Solid									X	X	X	X	X			1	
SB-4-1 (320-78145-15)	8/26/21	16:05 Pacific		Solid			X	X	X	X	X	X								5	
SB-4-2 (320-78145-16)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			5	
SB-4-3 (320-78145-17)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			1	
SB-4-4 (320-78145-18)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/27/21 1611	Company EMA SJ	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-4-5 (320-78145-19)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			1	
SB-5-01 (320-78145-20)	8/26/21	17:05 Pacific		Solid			X	X	X	X	X	X								5	
SB-5-02 (320-78145-21)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			5	
SB-5-03 (320-78145-22)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			1	
SB-5-04 (320-78145-23)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			1	
SB-5-05 (320-78145-24)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			1	
SB-6-01 (320-78145-25)	8/26/21	17:36 Pacific		Solid			X	X	X	X	X	X								5	
SB-6-02 (320-78145-26)	8/26/21	17:36 Pacific		Solid			X	X	X	X	X	X								5	
SB-6-03 (320-78145-27)	8/26/21	17:36 Pacific		Solid									X	X	X	X	X			1	

PUSH

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/27/21 1615	Company ETAS	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-6-04 (320-78145-28)	8/26/21	17:36 Pacific		Solid									X	X	X	X	X			1	
SB-6-05 (320-78145-29)	8/26/21	17:36 Pacific		Solid									X	X	X	X	X			1	RUSH
SB-7-1 (320-78145-30)	8/26/21	18:25 Pacific		Solid			X	X	X	X	X	X								5	
SB-7-2 (320-78145-31)	8/26/21	18:25 Pacific		Solid			X		X	X	X	X								5	
SB-7-3 (320-78145-32)	8/26/21	18:25 Pacific		Solid									X	X	X	X	X			1	
SB-7-4 (320-78145-33)	8/26/21	18:25 Pacific		Solid									X	X	X	X	X			1	
SB-7-5 (320-78145-34)	8/26/21	18:25 Pacific		Solid									X	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 8/27/21 1615	Company TEMSI	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 - 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238637.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 1 of 1
Company: EMLab P&K		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 6000 Shoreline Court, Suite 205,	Due Date Requested: 9/1/2021			
City: South San Francisco	TAT Requested (days):			
State, Zip: CA, 94080				
Phone: 866-888-6653(Tel)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (CARB 435)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB-1-1.5 (320-78145-1)	8/26/21	13:12 Pacific		Solid			X	1	002721118
SB-2-1.0 (320-78145-6)	8/26/21	15:13 Pacific		Solid			X	1	
SB-4-1 (320-78145-15)	8/26/21	16:05 Pacific		Solid			X	1	
SB-6-01 (320-78145-25)	8/26/21	17:36 Pacific		Solid			X	1	
SB-7-1 (320-78145-30)	8/26/21	18:25 Pacific		Solid			X	1	

PUSH!!

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:		
Relinquished by:	Date/Time: 8/27/21 1600	Company EMAS	Received by:	Date/Time: 8/30/21 915	Company Eurofins	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

9/3/2021

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-1

Login Number: 78145
List Number: 1
Creator: Garcia, Hilario A

List Source: Eurofins TestAmerica, Sacramento

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

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-1

Login Number: 78145
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2 & 2.7 & 4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-78145-1
Client Project/Site: 651 Martin, Santa Clara
Revision: 1

For:
TRC Environmental Corporation
2300 Clayton Road
Suite 610
Concord, California 94520

Attn: Gary Lieberman

Authorized for release by:
9/8/2021 3:34:04 PM

Micah Smith, Project Manager II
(916)374-4302
Micah.Smith@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 320-78145-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-78145-1

Comments
No additional comments.

Revised Report
The report being provided is a revision of the original report sent on 9/3/2021. The report (revision 1) is being revised to include the Motor Oil Range Organics [C28-C40].

Receipt
The samples were received on 8/27/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.8º C and 5.3º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for analytical batch 320-521640 recovered outside control limits for the following analytes: Dichlorodifluoromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 320-521640 recovered outside control limits for the following analytes: Dichlorodifluoromethane.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-521208 and 320-521108 and analytical batch 320-521640.

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 320-522017 recovered outside control limits for the following analytes: sec-Butylbenzene, n-Butylbenzene and tert-Butylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: Internal standard (ISTD) response for the following samples were outside control limits: SB-3-1.5 (320-78145-10) and SB-6-01 (320-78145-25). The sample(s) was re-analyzed and ISTD response was outside control limits. The reanalysis has been reported.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-521208 and 320-521108 and analytical batch 320-522017.

Method 8260B: Internal standard (ISTD) response for the following samples were outside control limits: SB-1-1.5 (320-78145-1), SB-2-1.0 (320-78145-6), SB-3-2.5 (320-78145-11), SB-5-01 (320-78145-20) and SB-6-02 (320-78145-26). The sample(s) was re-extracted and/or re-analyzed and ISTD response was outside control limits. Original set of data has been reported.

Method 8260B/CA_LUFTMS: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-521208, 320-521108 and 320-521108 and analytical batch 320-521639.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: SB-1-1.5 (320-78145-1), SB-1-2.5 (320-78145-2), SB-2-1.0 (320-78145-6), SB-6-01 (320-78145-25) and SB-6-02 (320-78145-26).

Method 8015B: Surrogate recovery for the following samples were outside control limits: SB-1-1.5 (320-78145-1), SB-1-2.5 (320-78145-2), SB-2-1.0 (320-78145-6), SB-2-2.0 (320-78145-7), SB-3-1.5 (320-78145-10), SB-3-2.5 (320-78145-11), SB-5-01 (320-78145-20), SB-6-01 (320-78145-25), SB-6-02 (320-78145-26) and SB-7-2 (320-78145-31). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 320-78145-1 (Continued)

Laboratory: Eurofins TestAmerica, Sacramento (Continued)

Method 8015B: The following samples were diluted due to the nature of the sample matrix: SB-4-1 (320-78145-15), (320-78145-D-15-B MS) and (320-78145-D-15-C MSD). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8015B: The matrix spike/matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 320-520594 and analytical batch 320-521452 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/laboratory sample control duplicate (LCS/LCSD) recovery was within acceptance limits.

Method 8015B: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: SB-4-1 (320-78145-15).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-521017 and analytical batch 320-521620 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The following post digestion spike % recovery associated with batch 320-521620 was outside of the 75-125% control limits: Zinc (72%). The associated sample is: (320-78145-E-1-A PDS).

Method 6010B: The serial dilution performed for the following samples associated with batch 320-521620 was above the control limits of 10% for the following analytes: Zinc (11%). The associated sample is: (320-78145-E-1-A SD ^5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method CARB 435: This method was subcontracted to EMLab P&K - South San Francisco. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-1-1.5 — Lab Sample ID: 320-78145-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C4-C12	0.078	J	0.45	0.045	mg/Kg	1		8260B/CA_LUFT MS	Total/NA
1,2,3-Trichlorobenzene	1.3	J *3	4.5	0.68	ug/Kg	1		8260B	Total/NA
1,2,4-Trichlorobenzene	1.1	J *3	4.5	0.68	ug/Kg	1		8260B	Total/NA
1,2,4-Trimethylbenzene	5.1	*3	4.5	0.46	ug/Kg	1		8260B	Total/NA
1,3,5-Trimethylbenzene	1.4	J *3	4.5	0.32	ug/Kg	1		8260B	Total/NA
Naphthalene	3.5	J *3	4.5	0.57	ug/Kg	1		8260B	Total/NA
n-Butylbenzene	1.6	J *3	4.5	0.60	ug/Kg	1		8260B	Total/NA
o-Xylene	0.47	J *3	4.5	0.30	ug/Kg	1		8260B	Total/NA
p-Isopropyltoluene	1.6	J *3	4.5	0.57	ug/Kg	1		8260B	Total/NA
Toluene	1.1	J *3	4.5	0.55	ug/Kg	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	1.2		0.99	0.49	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C28-C40]	4.4	J	4.9	3.7	mg/Kg	1		8015B	Total/NA
Arsenic	3.5		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	160	F1	1.0	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.62		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cadmium	0.16	J	0.20	0.030	mg/Kg	1		6010B	Total/NA
Cobalt	8.9		0.50	0.25	mg/Kg	1		6010B	Total/NA
Chromium	51	F1	0.50	0.14	mg/Kg	1		6010B	Total/NA
Copper	26	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	56	F1	1.0	0.24	mg/Kg	1		6010B	Total/NA
Lead	9.3		1.0	0.26	mg/Kg	1		6010B	Total/NA
Antimony	1.0	J F1	2.0	0.94	mg/Kg	1		6010B	Total/NA
Thallium	0.87	J	2.0	0.84	mg/Kg	1		6010B	Total/NA
Vanadium	32	F1	0.50	0.19	mg/Kg	1		6010B	Total/NA
Zinc	70		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.089		0.044	0.0094	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-1-2.5 — Lab Sample ID: 320-78145-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)-C4-C12	0.057	J	0.44	0.044	mg/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	2.7		0.99	0.49	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C28-C40]	22		4.9	3.7	mg/Kg	1		8015B	Total/NA
Arsenic	2.6		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	180		0.99	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.69		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cadmium	0.18	J	0.20	0.030	mg/Kg	1		6010B	Total/NA
Cobalt	9.8		0.50	0.25	mg/Kg	1		6010B	Total/NA
Chromium	56		0.50	0.14	mg/Kg	1		6010B	Total/NA
Copper	27	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	71		0.99	0.24	mg/Kg	1		6010B	Total/NA
Lead	9.3		0.99	0.26	mg/Kg	1		6010B	Total/NA
Antimony	1.2	J	2.0	0.93	mg/Kg	1		6010B	Total/NA
Thallium	1.1	J	2.0	0.83	mg/Kg	1		6010B	Total/NA
Vanadium	32		0.50	0.19	mg/Kg	1		6010B	Total/NA
Zinc	69		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.091		0.037	0.0079	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-2-1.0 — Lab Sample ID: 320-78145-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.74	J	0.98	0.49	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C28-C40]	6.2		4.9	3.7	mg/Kg	1		8015B	Total/NA
Arsenic	8.9		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	160		0.98	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.54		0.20	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.16	J	0.20	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	6.0		0.49	0.25	mg/Kg	1		6010B	Total/NA
Chromium	35		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	24	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	31		0.98	0.24	mg/Kg	1		6010B	Total/NA
Lead	8.6		0.98	0.25	mg/Kg	1		6010B	Total/NA
Thallium	1.2	J	2.0	0.82	mg/Kg	1		6010B	Total/NA
Vanadium	29		0.49	0.19	mg/Kg	1		6010B	Total/NA
Zinc	51		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.052		0.037	0.0079	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-2-2.0 — Lab Sample ID: 320-78145-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C28-C40]	5.8		4.9	3.7	mg/Kg	1		8015B	Total/NA
Arsenic	2.7		1.9	1.2	mg/Kg	1		6010B	Total/NA
Barium	130		0.95	0.11	mg/Kg	1		6010B	Total/NA
Beryllium	0.40		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.10	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	3.8		0.48	0.24	mg/Kg	1		6010B	Total/NA
Chromium	23		0.48	0.13	mg/Kg	1		6010B	Total/NA
Copper	14	B	1.4	0.21	mg/Kg	1		6010B	Total/NA
Nickel	21		0.95	0.23	mg/Kg	1		6010B	Total/NA
Lead	3.6		0.95	0.25	mg/Kg	1		6010B	Total/NA
Thallium	0.95	J	1.9	0.80	mg/Kg	1		6010B	Total/NA
Vanadium	20		0.48	0.18	mg/Kg	1		6010B	Total/NA
Zinc	32		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.023	J	0.037	0.0079	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-3-1.5 — Lab Sample ID: 320-78145-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	160		0.99	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.63		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cadmium	0.20		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cobalt	13		0.50	0.25	mg/Kg	1		6010B	Total/NA
Chromium	88		0.50	0.14	mg/Kg	1		6010B	Total/NA
Copper	28	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	120		0.99	0.24	mg/Kg	1		6010B	Total/NA
Lead	10		0.99	0.26	mg/Kg	1		6010B	Total/NA
Antimony	1.4	J	2.0	0.93	mg/Kg	1		6010B	Total/NA
Thallium	1.1	J	2.0	0.83	mg/Kg	1		6010B	Total/NA
Vanadium	35		0.50	0.19	mg/Kg	1		6010B	Total/NA
Zinc	66		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.078		0.038	0.0082	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-3-2.5 — Lab Sample ID: 320-78145-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C28-C40]	5.8		5.0	3.7	mg/Kg	1		8015B	Total/NA
Arsenic	3.6		1.9	1.3	mg/Kg	1		6010B	Total/NA
Barium	130		0.97	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.50		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.14	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	14		0.49	0.24	mg/Kg	1		6010B	Total/NA
Chromium	97		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	19	B	1.5	0.21	mg/Kg	1		6010B	Total/NA
Nickel	160		0.97	0.23	mg/Kg	1		6010B	Total/NA
Lead	5.2		0.97	0.25	mg/Kg	1		6010B	Total/NA
Antimony	1.4	J	1.9	0.91	mg/Kg	1		6010B	Total/NA
Vanadium	27		0.49	0.18	mg/Kg	1		6010B	Total/NA
Zinc	43		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.017	J	0.039	0.0083	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-4-1 — Lab Sample ID: 320-78145-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17	F1 F2	9.9	4.9	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C28-C40]	200	F2	49	37	mg/Kg	10		8015B	Total/NA
Arsenic	5.5		1.9	1.3	mg/Kg	1		6010B	Total/NA
Barium	160		0.96	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.39		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.15	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	15		0.48	0.24	mg/Kg	1		6010B	Total/NA
Chromium	91		0.48	0.13	mg/Kg	1		6010B	Total/NA
Copper	29	B	1.4	0.21	mg/Kg	1		6010B	Total/NA
Nickel	150		0.96	0.23	mg/Kg	1		6010B	Total/NA
Lead	5.8		0.96	0.25	mg/Kg	1		6010B	Total/NA
Antimony	1.6	J	1.9	0.90	mg/Kg	1		6010B	Total/NA
Thallium	1.5	J	1.9	0.81	mg/Kg	1		6010B	Total/NA
Vanadium	41		0.48	0.18	mg/Kg	1		6010B	Total/NA
Zinc	43		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.036	J	0.038	0.0081	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-5-01 — Lab Sample ID: 320-78145-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		1.9	1.3	mg/Kg	1		6010B	Total/NA
Barium	130		0.97	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.45		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.14	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	4.7		0.49	0.24	mg/Kg	1		6010B	Total/NA
Chromium	28		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	20	B	1.5	0.21	mg/Kg	1		6010B	Total/NA
Nickel	26		0.97	0.23	mg/Kg	1		6010B	Total/NA
Lead	5.3		0.97	0.25	mg/Kg	1		6010B	Total/NA
Thallium	0.94	J	1.9	0.82	mg/Kg	1		6010B	Total/NA
Vanadium	23		0.49	0.18	mg/Kg	1		6010B	Total/NA
Zinc	40		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.016	J	0.038	0.0081	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-6-01 — Lab Sample ID: 320-78145-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.8		1.0	0.50	mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C28-C40]	6.2		5.0	3.8	mg/Kg	1		8015B	Total/NA
Arsenic	14		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	160		0.98	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.61		0.20	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.17	J	0.20	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	6.9		0.49	0.25	mg/Kg	1		6010B	Total/NA
Chromium	40		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	26	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	36		0.98	0.24	mg/Kg	1		6010B	Total/NA
Lead	8.7		0.98	0.25	mg/Kg	1		6010B	Total/NA
Thallium	0.83	J	2.0	0.82	mg/Kg	1		6010B	Total/NA
Vanadium	31		0.49	0.19	mg/Kg	1		6010B	Total/NA
Zinc	56		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.048		0.037	0.0079	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-6-02 — Lab Sample ID: 320-78145-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.74	J	0.99	0.50	mg/Kg	1		8015B	Total/NA
Arsenic	4.2		1.9	1.2	mg/Kg	1		6010B	Total/NA
Barium	160		0.95	0.11	mg/Kg	1		6010B	Total/NA
Beryllium	0.70		0.19	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.11	J	0.19	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	9.2		0.48	0.24	mg/Kg	1		6010B	Total/NA
Chromium	42		0.48	0.13	mg/Kg	1		6010B	Total/NA
Copper	22	B	1.4	0.21	mg/Kg	1		6010B	Total/NA
Nickel	42		0.95	0.23	mg/Kg	1		6010B	Total/NA
Lead	6.9		0.95	0.25	mg/Kg	1		6010B	Total/NA
Thallium	1.1	J	1.9	0.80	mg/Kg	1		6010B	Total/NA
Vanadium	33		0.48	0.18	mg/Kg	1		6010B	Total/NA
Zinc	52		1.9	0.18	mg/Kg	1		6010B	Total/NA
Mercury	0.022	J	0.041	0.0089	mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-7-1 — Lab Sample ID: 320-78145-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.8		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	150		0.99	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.64		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cadmium	0.24		0.20	0.030	mg/Kg	1		6010B	Total/NA
Cobalt	7.9		0.50	0.25	mg/Kg	1		6010B	Total/NA
Chromium	49		0.50	0.14	mg/Kg	1		6010B	Total/NA
Copper	20	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Nickel	43		0.99	0.24	mg/Kg	1		6010B	Total/NA
Lead	11		0.99	0.26	mg/Kg	1		6010B	Total/NA
Thallium	1.1	J	2.0	0.83	mg/Kg	1		6010B	Total/NA
Vanadium	34		0.50	0.19	mg/Kg	1		6010B	Total/NA
Zinc	88		2.0	0.19	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-7-2 — Lab Sample ID: 320-78145-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		2.0	1.3	mg/Kg	1		6010B	Total/NA
Barium	120		0.98	0.12	mg/Kg	1		6010B	Total/NA
Beryllium	0.77		0.20	0.029	mg/Kg	1		6010B	Total/NA
Cadmium	0.24		0.20	0.029	mg/Kg	1		6010B	Total/NA
Cobalt	13		0.49	0.25	mg/Kg	1		6010B	Total/NA
Chromium	53		0.49	0.14	mg/Kg	1		6010B	Total/NA
Copper	34	B	1.5	0.22	mg/Kg	1		6010B	Total/NA
Molybdenum	1.0	J	2.0	0.74	mg/Kg	1		6010B	Total/NA
Nickel	68		0.98	0.24	mg/Kg	1		6010B	Total/NA
Lead	10		0.98	0.25	mg/Kg	1		6010B	Total/NA
Thallium	0.96	J	2.0	0.82	mg/Kg	1		6010B	Total/NA
Vanadium	46		0.49	0.19	mg/Kg	1		6010B	Total/NA
Zinc	81		2.0	0.19	mg/Kg	1		6010B	Total/NA
Mercury	0.035	J	0.042	0.0091	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-1-1.5

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	**0.078**	**J**	0.45	0.045	mg/Kg		08/27/21 21:26	09/01/21 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 131*	*08/27/21 21:26*	*09/01/21 12:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1,1,2-Tetrachloroethane	ND	*3	4.5	0.37	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1,1-Trichloroethane	ND		4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1,2,2-Tetrachloroethane	ND	*3	4.5	0.62	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1,2-Trichloroethane	ND	*3	4.5	0.40	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1-Dichloroethane	ND		4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1-Dichloroethene	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,1-Dichloropropene	ND		4.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2,3-Trichlorobenzene	**1.3**	**J *3**	4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2,3-Trichloropropane	ND	*3	4.5	0.69	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2,4-Trichlorobenzene	**1.1**	**J *3**	4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2,4-Trimethylbenzene	**5.1**	***3**	4.5	0.46	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dibromo-3-Chloropropane	ND	*3	9.1	0.80	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dibromoethane (EDB)	ND	*3	9.1	0.25	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dichlorobenzene	ND	*3	4.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dichloroethane	ND		4.5	0.66	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,2-Dichloropropane	ND		4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,3,5-Trimethylbenzene	**1.4**	**J *3**	4.5	0.32	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,3-Dichlorobenzene	ND	*3	4.5	0.27	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,3-Dichloropropane	ND	*3	4.5	0.52	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
1,4-Dichlorobenzene	ND	*3	4.5	0.71	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
2,2-Dichloropropane	ND		4.5	0.35	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
2-Chlorotoluene	ND	*3	4.5	0.56	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
4-Chlorotoluene	ND	*3	4.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromobenzene	ND	*3	4.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromochloromethane	ND		4.5	0.85	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromodichloromethane	ND		4.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromoform	ND	*3	4.5	0.36	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Bromomethane	ND		4.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Carbon tetrachloride	ND		4.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Chlorobenzene	ND	*3	4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Chloroethane	ND		4.5	0.41	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Chloroform	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Chloromethane	ND		4.5	0.45	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
cis-1,2-Dichloroethene	ND		4.5	0.81	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
cis-1,3-Dichloropropene	ND		4.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Dibromomethane	ND		4.5	0.53	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Dichlorodifluoromethane	ND	*+ *1	4.5	0.81	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Ethylbenzene	ND	*3	4.5	0.31	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Hexachlorobutadiene	ND	*3	4.5	0.30	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Isopropylbenzene	ND	*3	4.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Methylene Chloride	ND		9.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 12:55	1

Client Sample ID: SB-1-1.5

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND	*3	4.5	0.74	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Naphthalene	**3.5**	**J *3**	4.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
n-Butylbenzene	**1.6**	**J *3**	4.5	0.60	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
N-Propylbenzene	ND	*3	4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
o-Xylene	**0.47**	**J *3**	4.5	0.30	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
p-Isopropyltoluene	**1.6**	**J *3**	4.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
sec-Butylbenzene	ND	*3	4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Styrene	ND	*3	4.5	0.28	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
tert-Butylbenzene	ND	*3	4.5	0.49	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Tetrachloroethene	ND	*3	4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Toluene	**1.1**	**J *3**	4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
trans-1,2-Dichloroethene	ND		4.5	0.35	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
trans-1,3-Dichloropropene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Trichloroethene	ND		4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Trichlorofluoromethane	ND		4.5	0.31	ug/Kg		08/27/21 21:26	09/01/21 12:55	1
Vinyl chloride	ND	*+	4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*32 - 156*	*08/27/21 21:26*	*09/01/21 12:55*	*1*
4-Bromofluorobenzene (Surr)	*83*	**3*	*63 - 143*	*08/27/21 21:26*	*09/01/21 12:55*	*1*
Dibromofluoromethane (Surr)	*117*		*55 - 129*	*08/27/21 21:26*	*09/01/21 12:55*	*1*
Toluene-d8 (Surr)	*106*		*63 - 138*	*08/27/21 21:26*	*09/01/21 12:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.2**		0.99	0.49	mg/Kg		08/28/21 07:22	08/30/21 23:07	1
Motor Oil Range Organics [C28-C40]	**4.4**	**J**	4.9	3.7	mg/Kg		08/28/21 07:22	08/30/21 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*32*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/30/21 23:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.090	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Arsenic	**3.5**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Barium	**160**	**F1**	1.0	0.12	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Beryllium	**0.62**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Cadmium	**0.16**	**J**	0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Cobalt	**8.9**		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Chromium	**51**	**F1**	0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Copper	**26**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Molybdenum	ND		2.0	0.75	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Nickel	**56**	**F1**	1.0	0.24	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Lead	**9.3**		1.0	0.26	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Antimony	**1.0**	**J F1**	2.0	0.94	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Thallium	**0.87**	**J**	2.0	0.84	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Vanadium	**32**	**F1**	0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 12:44	1
Zinc	**70**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 12:44	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-1-1.5

Lab Sample ID: 320-78145-1
Matrix: Solid

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.089		0.044	0.0094	mg/Kg		09/02/21 09:00	09/02/21 13:47	1

Client Sample ID: SB-1-2.5

Lab Sample ID: 320-78145-2
Matrix: Solid

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	0.057	J	0.44	0.044	mg/Kg		08/27/21 21:26	09/01/21 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 131*	*08/27/21 21:26*	*09/01/21 13:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.4	0.23	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1,1,2-Tetrachloroethane	ND		4.4	0.36	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.60	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1,2-Trichloroethane	ND		4.4	0.39	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1-Dichloroethane	ND		4.4	0.26	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1-Dichloroethene	ND		4.4	0.23	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,1-Dichloropropene	ND		4.4	0.33	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2,3-Trichlorobenzene	ND		4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2,3-Trichloropropane	ND		4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2,4-Trichlorobenzene	ND		4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2,4-Trimethylbenzene	ND		4.4	0.45	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dibromo-3-Chloropropane	ND		8.9	0.78	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dibromoethane (EDB)	ND		8.9	0.24	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dichlorobenzene	ND		4.4	0.57	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dichloroethane	ND		4.4	0.65	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,2-Dichloropropane	ND		4.4	0.53	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,3,5-Trimethylbenzene	ND		4.4	0.31	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,3-Dichlorobenzene	ND		4.4	0.27	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,3-Dichloropropane	ND		4.4	0.51	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
1,4-Dichlorobenzene	ND		4.4	0.69	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
2,2-Dichloropropane	ND		4.4	0.34	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
2-Chlorotoluene	ND		4.4	0.55	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
4-Chlorotoluene	ND		4.4	0.76	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromobenzene	ND		4.4	0.46	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromochloromethane	ND		4.4	0.83	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromodichloromethane	ND		4.4	0.47	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromoform	ND		4.4	0.35	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Bromomethane	ND		4.4	0.76	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Carbon tetrachloride	ND		4.4	0.47	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Chlorobenzene	ND		4.4	0.26	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Chloroethane	ND		4.4	0.40	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Chloroform	ND		4.4	0.23	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Chloromethane	ND		4.4	0.44	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
cis-1,2-Dichloroethene	ND		4.4	0.79	ug/Kg		08/27/21 21:26	09/02/21 12:36	1

Client Sample ID: SB-1-2.5

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		4.4	0.57	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Dibromomethane	ND		4.4	0.51	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Dichlorodifluoromethane	ND		4.4	0.79	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Ethylbenzene	ND		4.4	0.30	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Hexachlorobutadiene	ND		4.4	0.29	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Isopropylbenzene	ND		4.4	0.46	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Methylene Chloride	ND		8.9	0.74	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
m-Xylene & p-Xylene	ND		4.4	0.72	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Naphthalene	ND		4.4	0.56	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
n-Butylbenzene	ND		4.4	0.59	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
N-Propylbenzene	ND	*+	4.4	0.26	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
o-Xylene	ND		4.4	0.29	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
p-Isopropyltoluene	ND		4.4	0.56	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
sec-Butylbenzene	ND	*+	4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Styrene	ND		4.4	0.27	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
tert-Butylbenzene	ND	*+	4.4	0.48	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Tetrachloroethene	ND		4.4	0.54	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Toluene	ND		4.4	0.54	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
trans-1,2-Dichloroethene	ND		4.4	0.34	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
trans-1,3-Dichloropropene	ND		4.4	0.67	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Trichloroethene	ND		4.4	0.53	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Trichlorofluoromethane	ND		4.4	0.30	ug/Kg		08/27/21 21:26	09/02/21 12:36	1
Vinyl chloride	ND		4.4	0.32	ug/Kg		08/27/21 21:26	09/02/21 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*32 - 156*	*08/27/21 21:26*	*09/02/21 12:36*	*1*
4-Bromofluorobenzene (Surr)	*110*		*63 - 143*	*08/27/21 21:26*	*09/02/21 12:36*	*1*
Dibromofluoromethane (Surr)	*113*		*55 - 129*	*08/27/21 21:26*	*09/02/21 12:36*	*1*
Toluene-d8 (Surr)	*111*		*63 - 138*	*08/27/21 21:26*	*09/02/21 12:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.7**		0.99	0.49	mg/Kg		08/28/21 07:22	08/30/21 23:32	1
Motor Oil Range Organics [C28-C40]	**22**		4.9	3.7	mg/Kg		08/28/21 07:22	08/30/21 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*41*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/30/21 23:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.089	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Arsenic	**2.6**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Barium	**180**		0.99	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Beryllium	**0.69**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Cadmium	**0.18**	**J**	0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Cobalt	**9.8**		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Chromium	**56**		0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Copper	**27**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Nickel	**71**		0.99	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:05	1

Client Sample ID: SB-1-2.5

Lab Sample ID: 320-78145-2

Date Collected: 08/26/21 13:12
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.3		0.99	0.26	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Antimony	1.2	J	2.0	0.93	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Thallium	1.1	J	2.0	0.83	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Vanadium	32		0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:05	1
Zinc	69		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:05	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.037	0.0079	mg/Kg		09/02/21 09:00	09/02/21 13:58	1

Client Sample ID: SB-2-1.0

Lab Sample ID: 320-78145-6

Date Collected: 08/26/21 15:13
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.65	0.065	mg/Kg		08/27/21 21:26	09/01/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 131*	*08/27/21 21:26*	*09/01/21 13:40*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1,1,2-Tetrachloroethane	ND		6.5	0.53	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1,1-Trichloroethane	ND		6.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1,2,2-Tetrachloroethane	ND	*3	6.5	0.88	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1,2-Trichloroethane	ND		6.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1-Dichloroethane	ND		6.5	0.38	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1-Dichloroethene	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,1-Dichloropropene	ND		6.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2,3-Trichlorobenzene	ND	*3	6.5	0.97	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2,3-Trichloropropane	ND	*3	6.5	0.99	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2,4-Trichlorobenzene	ND	*3	6.5	0.97	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2,4-Trimethylbenzene	ND	*3	6.5	0.66	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dibromo-3-Chloropropane	ND	*3	13	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dibromoethane (EDB)	ND		13	0.35	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dichlorobenzene	ND	*3	6.5	0.83	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dichloroethane	ND		6.5	0.95	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,2-Dichloropropane	ND		6.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,3,5-Trimethylbenzene	ND	*3	6.5	0.45	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,3-Dichlorobenzene	ND	*3	6.5	0.39	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,3-Dichloropropane	ND		6.5	0.74	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
1,4-Dichlorobenzene	ND	*3	6.5	1.0	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
2,2-Dichloropropane	ND		6.5	0.49	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
2-Chlorotoluene	ND	*3	6.5	0.81	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
4-Chlorotoluene	ND	*3	6.5	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Bromobenzene	ND	*3	6.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Bromochloromethane	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/01/21 13:40	1

Client Sample ID: SB-2-1.0

Date Collected: 08/26/21 15:13
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		6.5	0.69	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Bromoform	ND		6.5	0.52	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Bromomethane	ND		6.5	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Carbon tetrachloride	ND		6.5	0.69	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Chlorobenzene	ND		6.5	0.38	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Chloroethane	ND		6.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Chloroform	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Chloromethane	ND		6.5	0.65	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
cis-1,2-Dichloroethene	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
cis-1,3-Dichloropropene	ND		6.5	0.83	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Dibromomethane	ND		6.5	0.75	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Dichlorodifluoromethane	ND	*+ *1	6.5	1.2	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Ethylbenzene	ND		6.5	0.44	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Hexachlorobutadiene	ND	*3	6.5	0.43	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Isopropylbenzene	ND		6.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Methylene Chloride	ND		13	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
m-Xylene & p-Xylene	ND		6.5	1.1	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Naphthalene	ND	*3	6.5	0.82	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
n-Butylbenzene	ND	*3	6.5	0.86	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
N-Propylbenzene	ND	*3	6.5	0.38	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
o-Xylene	ND		6.5	0.43	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
p-Isopropyltoluene	ND	*3	6.5	0.82	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
sec-Butylbenzene	ND	*3	6.5	0.97	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Styrene	ND		6.5	0.40	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
tert-Butylbenzene	ND	*3	6.5	0.70	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Tetrachloroethene	ND		6.5	0.79	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Toluene	ND		6.5	0.79	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
trans-1,2-Dichloroethene	ND		6.5	0.49	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
trans-1,3-Dichloropropene	ND		6.5	0.97	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Trichloroethene	ND		6.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Trichlorofluoromethane	ND		6.5	0.44	ug/Kg		08/27/21 21:26	09/01/21 13:40	1
Vinyl chloride	ND	*+	6.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*32 - 156*	*08/27/21 21:26*	*09/01/21 13:40*	*1*
4-Bromofluorobenzene (Surr)	*89*		*63 - 143*	*08/27/21 21:26*	*09/01/21 13:40*	*1*
Dibromofluoromethane (Surr)	*113*		*55 - 129*	*08/27/21 21:26*	*09/01/21 13:40*	*1*
Toluene-d8 (Surr)	*109*		*63 - 138*	*08/27/21 21:26*	*09/01/21 13:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**0.74**	**J**	0.98	0.49	mg/Kg		08/28/21 07:22	08/30/21 23:56	1
Motor Oil Range Organics [C28-C40]	**6.2**		4.9	3.7	mg/Kg		08/28/21 07:22	08/30/21 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*32*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/30/21 23:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.088	mg/Kg		08/30/21 14:07	08/31/21 13:09	1

Client Sample ID: SB-2-1.0

Lab Sample ID: 320-78145-6
Matrix: Solid

Date Collected: 08/26/21 15:13
Date Received: 08/27/21 09:15

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Barium	160		0.98	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Beryllium	0.54		0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Cadmium	0.16	J	0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Cobalt	6.0		0.49	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Chromium	35		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Copper	24	B	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Nickel	31		0.98	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Lead	8.6		0.98	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Antimony	ND		2.0	0.92	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Thallium	1.2	J	2.0	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Vanadium	29		0.49	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:09	1
Zinc	51		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:09	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.037	0.0079	mg/Kg		09/02/21 09:00	09/02/21 14:00	1

Client Sample ID: SB-2-2.0

Lab Sample ID: 320-78145-7
Matrix: Solid

Date Collected: 08/26/21 15:13
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		15	1.5	mg/Kg		08/27/21 21:26	09/01/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 131*	*08/27/21 21:26*	*09/01/21 14:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		150	7.6	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1,1,2-Tetrachloroethane	ND		150	12	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1,1-Trichloroethane	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1,2,2-Tetrachloroethane	ND		150	20	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1,2-Trichloroethane	ND		150	13	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1-Dichloroethane	ND		150	8.5	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1-Dichloroethene	ND		150	7.6	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,1-Dichloropropene	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2,3-Trichlorobenzene	ND		150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2,3-Trichloropropane	ND		150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2,4-Trichlorobenzene	ND		150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2,4-Trimethylbenzene	ND		150	15	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dibromo-3-Chloropropane	ND		290	26	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dibromoethane (EDB)	ND		290	7.9	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dichlorobenzene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dichloroethane	ND		150	21	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,2-Dichloropropane	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1

Client Sample ID: SB-2-2.0

Date Collected: 08/26/21 15:13
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		150	10	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,3-Dichlorobenzene	ND		150	8.8	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,3-Dichloropropane	ND		150	17	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
1,4-Dichlorobenzene	ND		150	23	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
2,2-Dichloropropane	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
2-Chlorotoluene	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
4-Chlorotoluene	ND		150	25	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromobenzene	ND		150	15	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromochloromethane	ND		150	28	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromodichloromethane	ND		150	16	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromoform	ND		150	12	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Bromomethane	ND		150	25	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Carbon tetrachloride	ND		150	16	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Chlorobenzene	ND		150	8.5	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Chloroethane	ND		150	13	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Chloroform	ND		150	7.6	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Chloromethane	ND		150	15	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
cis-1,2-Dichloroethene	ND		150	26	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
cis-1,3-Dichloropropene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Dibromomethane	ND		150	17	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Dichlorodifluoromethane	ND		150	26	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Ethylbenzene	ND		150	10	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Hexachlorobutadiene	ND		150	9.7	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Isopropylbenzene	ND		150	15	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Methylene Chloride	ND		290	25	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
m-Xylene & p-Xylene	ND		150	24	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Naphthalene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
n-Butylbenzene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
N-Propylbenzene	ND	*+	150	8.5	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
o-Xylene	ND		150	9.7	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
p-Isopropyltoluene	ND		150	19	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
sec-Butylbenzene	ND	*+	150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Styrene	ND		150	9.1	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
tert-Butylbenzene	ND	*+	150	16	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Tetrachloroethene	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Toluene	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
trans-1,2-Dichloroethene	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
trans-1,3-Dichloropropene	ND		150	22	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Trichloroethene	ND		150	18	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Trichlorofluoromethane	ND		150	10	ug/Kg		08/27/21 21:26	09/02/21 13:21	1
Vinyl chloride	ND		150	11	ug/Kg		08/27/21 21:26	09/02/21 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*32 - 156*	*08/27/21 21:26*	*09/02/21 13:21*	*1*
4-Bromofluorobenzene (Surr)	*111*		*63 - 143*	*08/27/21 21:26*	*09/02/21 13:21*	*1*
Dibromofluoromethane (Surr)	*113*		*55 - 129*	*08/27/21 21:26*	*09/02/21 13:21*	*1*
Toluene-d8 (Surr)	*114*		*63 - 138*	*08/27/21 21:26*	*09/02/21 13:21*	*1*

Client Sample ID: SB-2-2.0

Lab Sample ID: 320-78145-7
Matrix: Solid
Date Collected: 08/26/21 15:13
Date Received: 08/27/21 09:15

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98	0.49	mg/Kg		08/28/21 07:22	08/31/21 00:21	1
Motor Oil Range Organics [C28-C40]	**5.8**		4.9	3.7	mg/Kg		08/28/21 07:22	08/31/21 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*36*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 00:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.48	0.086	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Arsenic	**2.7**		1.9	1.2	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Barium	**130**		0.95	0.11	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Beryllium	**0.40**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Cadmium	**0.10**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Cobalt	**3.8**		0.48	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Chromium	**23**		0.48	0.13	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Copper	**14**	**B**	1.4	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Molybdenum	ND		1.9	0.71	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Nickel	**21**		0.95	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Lead	**3.6**		0.95	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Selenium	ND		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Antimony	ND		1.9	0.90	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Thallium	**0.95**	**J**	1.9	0.80	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Vanadium	**20**		0.48	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:13	1
Zinc	**32**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:13	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**	**J**	0.037	0.0079	mg/Kg		09/02/21 09:00	09/02/21 14:02	1

Client Sample ID: SB-3-1.5

Lab Sample ID: 320-78145-10
Matrix: Solid
Date Collected: 08/26/21 14:22
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.47	0.047	mg/Kg		08/27/21 21:26	09/01/21 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 131*	*08/27/21 21:26*	*09/01/21 14:24*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7	0.24	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1,1,2-Tetrachloroethane	ND		4.7	0.38	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1,1-Trichloroethane	ND		4.7	0.34	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1,2,2-Tetrachloroethane	ND	*3	4.7	0.63	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1,2-Trichloroethane	ND		4.7	0.41	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1-Dichloroethane	ND		4.7	0.27	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1-Dichloroethene	ND		4.7	0.24	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,1-Dichloropropene	ND		4.7	0.35	ug/Kg		08/27/21 21:26	09/02/21 13:43	1

Client Sample ID: SB-3-1.5

Date Collected: 08/26/21 14:22
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND	*3	4.7	0.70	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2,3-Trichloropropane	ND	*3	4.7	0.71	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2,4-Trichlorobenzene	ND	*3	4.7	0.70	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2,4-Trimethylbenzene	ND	*3	4.7	0.48	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2-Dibromo-3-Chloropropane	ND	*3	9.3	0.82	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2-Dibromoethane (EDB)	ND		9.3	0.25	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2-Dichlorobenzene	ND	*3	4.7	0.60	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2-Dichloroethane	ND		4.7	0.68	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,2-Dichloropropane	ND		4.7	0.56	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,3,5-Trimethylbenzene	ND	*3	4.7	0.33	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,3-Dichlorobenzene	ND	*3	4.7	0.28	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,3-Dichloropropane	ND		4.7	0.53	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
1,4-Dichlorobenzene	ND	*3	4.7	0.73	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
2,2-Dichloropropane	ND		4.7	0.35	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
2-Chlorotoluene	ND	*3	4.7	0.58	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
4-Chlorotoluene	ND	*3	4.7	0.80	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromobenzene	ND	*3	4.7	0.49	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromochloromethane	ND		4.7	0.88	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromodichloromethane	ND		4.7	0.49	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromoform	ND		4.7	0.37	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Bromomethane	ND		4.7	0.80	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Carbon tetrachloride	ND		4.7	0.49	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Chlorobenzene	ND		4.7	0.27	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Chloroethane	ND		4.7	0.42	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Chloroform	ND		4.7	0.24	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Chloromethane	ND		4.7	0.47	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
cis-1,2-Dichloroethene	ND		4.7	0.83	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
cis-1,3-Dichloropropene	ND		4.7	0.60	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Dibromomethane	ND		4.7	0.54	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Dichlorodifluoromethane	ND		4.7	0.83	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Ethylbenzene	ND		4.7	0.32	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Hexachlorobutadiene	ND	*3	4.7	0.31	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Isopropylbenzene	ND		4.7	0.49	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Methylene Chloride	ND		9.3	0.78	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
m-Xylene & p-Xylene	ND		4.7	0.76	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Naphthalene	ND	*3	4.7	0.59	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
n-Butylbenzene	ND	*3	4.7	0.62	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
N-Propylbenzene	ND	*+ *3	4.7	0.27	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
o-Xylene	ND		4.7	0.31	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
p-Isopropyltoluene	ND	*3	4.7	0.59	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
sec-Butylbenzene	ND	*+ *3	4.7	0.70	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Styrene	ND		4.7	0.29	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
tert-Butylbenzene	ND	*+ *3	4.7	0.50	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Tetrachloroethene	ND		4.7	0.57	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Toluene	ND		4.7	0.57	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
trans-1,2-Dichloroethene	ND		4.7	0.35	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
trans-1,3-Dichloropropene	ND		4.7	0.70	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Trichloroethene	ND		4.7	0.56	ug/Kg		08/27/21 21:26	09/02/21 13:43	1
Trichlorofluoromethane	ND		4.7	0.32	ug/Kg		08/27/21 21:26	09/02/21 13:43	1

Client Sample ID: SB-3-1.5

Lab Sample ID: 320-78145-10

Date Collected: 08/26/21 14:22

Matrix: Solid

Date Received: 08/27/21 09:15

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		4.7	0.34	ug/Kg		08/27/21 21:26	09/02/21 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*32 - 156*	*08/27/21 21:26*	*09/02/21 13:43*	*1*
4-Bromofluorobenzene (Surr)	*94*		*63 - 143*	*08/27/21 21:26*	*09/02/21 13:43*	*1*
Dibromofluoromethane (Surr)	*111*		*55 - 129*	*08/27/21 21:26*	*09/02/21 13:43*	*1*
Toluene-d8 (Surr)	*109*		*63 - 138*	*08/27/21 21:26*	*09/02/21 13:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99	0.49	mg/Kg		08/28/21 07:22	08/31/21 00:45	1
Motor Oil Range Organics [C28-C40]	ND		4.9	3.7	mg/Kg		08/28/21 07:22	08/31/21 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*37*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 00:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.089	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Arsenic	**11**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Barium	**160**		0.99	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Beryllium	**0.63**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Cadmium	**0.20**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Cobalt	**13**		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Chromium	**88**		0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Copper	**28**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Nickel	**120**		0.99	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Lead	**10**		0.99	0.26	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Antimony	**1.4**	**J**	2.0	0.93	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Thallium	**1.1**	**J**	2.0	0.83	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Vanadium	**35**		0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:26	1
Zinc	**66**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:26	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.078**		0.038	0.0082	mg/Kg		09/02/21 09:00	09/02/21 14:03	1

Client Sample ID: SB-3-2.5

Lab Sample ID: 320-78145-11

Date Collected: 08/26/21 14:22

Matrix: Solid

Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.51	0.051	mg/Kg		08/27/21 21:26	09/01/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 131*	*08/27/21 21:26*	*09/01/21 15:09*	*1*

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-3-2.5

Date Collected: 08/26/21 14:22
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.1	0.27	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1,1,2-Tetrachloroethane	ND		5.1	0.42	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1,2,2-Tetrachloroethane	ND	*3	5.1	0.69	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1,2-Trichloroethane	ND		5.1	0.45	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1-Dichloroethane	ND		5.1	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1-Dichloroethene	ND		5.1	0.27	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,1-Dichloropropene	ND		5.1	0.38	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2,3-Trichlorobenzene	ND	*3	5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2,3-Trichloropropane	ND	*3	5.1	0.78	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2,4-Trichlorobenzene	ND	*3	5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2,4-Trimethylbenzene	ND	*3	5.1	0.52	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dibromo-3-Chloropropane	ND	*3	10	0.90	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dibromoethane (EDB)	ND		10	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dichlorobenzene	ND	*3	5.1	0.65	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dichloroethane	ND		5.1	0.75	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,2-Dichloropropane	ND		5.1	0.61	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,3,5-Trimethylbenzene	ND	*3	5.1	0.36	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,3-Dichlorobenzene	ND	*3	5.1	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,3-Dichloropropane	ND		5.1	0.58	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
1,4-Dichlorobenzene	ND	*3	5.1	0.80	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
2,2-Dichloropropane	ND		5.1	0.39	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
2-Chlorotoluene	ND	*3	5.1	0.63	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
4-Chlorotoluene	ND	*3	5.1	0.88	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromobenzene	ND	*3	5.1	0.53	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromochloromethane	ND		5.1	0.96	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromodichloromethane	ND		5.1	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromoform	ND		5.1	0.41	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Bromomethane	ND		5.1	0.88	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Carbon tetrachloride	ND		5.1	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Chlorobenzene	ND		5.1	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Chloroethane	ND		5.1	0.46	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Chloroform	ND		5.1	0.27	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Chloromethane	ND		5.1	0.51	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
cis-1,2-Dichloroethene	ND		5.1	0.91	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
cis-1,3-Dichloropropene	ND		5.1	0.65	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Dibromomethane	ND		5.1	0.59	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Dichlorodifluoromethane	ND	*+ *1	5.1	0.91	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Ethylbenzene	ND		5.1	0.35	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Hexachlorobutadiene	ND	*3	5.1	0.34	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Isopropylbenzene	ND		5.1	0.53	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Methylene Chloride	ND		10	0.86	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
m-Xylene & p-Xylene	ND		5.1	0.83	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Naphthalene	ND	*3	5.1	0.64	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
n-Butylbenzene	ND	*3	5.1	0.67	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
N-Propylbenzene	ND	*3	5.1	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
o-Xylene	ND		5.1	0.34	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
p-Isopropyltoluene	ND	*3	5.1	0.64	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
sec-Butylbenzene	ND	*3	5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 15:09	1

Client Sample ID: SB-3-2.5

Date Collected: 08/26/21 14:22
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.1	0.32	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
tert-Butylbenzene	ND	*3	5.1	0.55	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Tetrachloroethene	ND		5.1	0.62	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Toluene	ND		5.1	0.62	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
trans-1,2-Dichloroethene	ND		5.1	0.39	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
trans-1,3-Dichloropropene	ND		5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Trichloroethene	ND		5.1	0.61	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Trichlorofluoromethane	ND		5.1	0.35	ug/Kg		08/27/21 21:26	09/01/21 15:09	1
Vinyl chloride	ND	*+	5.1	0.37	ug/Kg		08/27/21 21:26	09/01/21 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*32 - 156*	*08/27/21 21:26*	*09/01/21 15:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*63 - 143*	*08/27/21 21:26*	*09/01/21 15:09*	*1*
Dibromofluoromethane (Surr)	*109*		*55 - 129*	*08/27/21 21:26*	*09/01/21 15:09*	*1*
Toluene-d8 (Surr)	*108*		*63 - 138*	*08/27/21 21:26*	*09/01/21 15:09*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99	0.50	mg/Kg		08/28/21 07:22	08/31/21 01:10	1
Motor Oil Range Organics [C28-C40]	**5.8**		5.0	3.7	mg/Kg		08/28/21 07:22	08/31/21 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*41*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 01:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.087	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Arsenic	**3.6**		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Barium	**130**		0.97	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Beryllium	**0.50**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Cadmium	**0.14**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Cobalt	**14**		0.49	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Chromium	**97**		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Copper	**19**	**B**	1.5	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Molybdenum	ND		1.9	0.73	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Nickel	**160**		0.97	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Lead	**5.2**		0.97	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Selenium	ND		1.9	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Antimony	**1.4**	**J**	1.9	0.91	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Thallium	ND		1.9	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Vanadium	**27**		0.49	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:30	1
Zinc	**43**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:30	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.039	0.0083	mg/Kg		09/02/21 09:00	09/02/21 14:05	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-4-1

Date Collected: 08/26/21 16:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.45	0.045	mg/Kg		08/27/21 21:26	09/01/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 131*	*08/27/21 21:26*	*09/01/21 15:32*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1,1,2-Tetrachloroethane	ND		4.5	0.37	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1,1-Trichloroethane	ND		4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.61	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1,2-Trichloroethane	ND		4.5	0.40	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1-Dichloroethane	ND		4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1-Dichloroethene	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,1-Dichloropropene	ND		4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2,3-Trichlorobenzene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2,3-Trichloropropane	ND		4.5	0.69	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2,4-Trichlorobenzene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2,4-Trimethylbenzene	ND		4.5	0.46	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dibromo-3-Chloropropane	ND		9.0	0.80	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dibromoethane (EDB)	ND		9.0	0.24	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dichlorobenzene	ND		4.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dichloroethane	ND		4.5	0.66	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,2-Dichloropropane	ND		4.5	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,3,5-Trimethylbenzene	ND		4.5	0.32	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,3-Dichlorobenzene	ND		4.5	0.27	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,3-Dichloropropane	ND		4.5	0.52	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
1,4-Dichlorobenzene	ND		4.5	0.71	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
2,2-Dichloropropane	ND		4.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
2-Chlorotoluene	ND		4.5	0.56	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
4-Chlorotoluene	ND		4.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromobenzene	ND		4.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromochloromethane	ND		4.5	0.85	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromodichloromethane	ND		4.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromoform	ND		4.5	0.36	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Bromomethane	ND		4.5	0.78	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Carbon tetrachloride	ND		4.5	0.48	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Chlorobenzene	ND		4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Chloroethane	ND		4.5	0.41	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Chloroform	ND		4.5	0.24	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Chloromethane	ND		4.5	0.45	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
cis-1,2-Dichloroethene	ND		4.5	0.80	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
cis-1,3-Dichloropropene	ND		4.5	0.58	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Dibromomethane	ND		4.5	0.52	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Dichlorodifluoromethane	ND	*+ *1	4.5	0.80	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Ethylbenzene	ND		4.5	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Hexachlorobutadiene	ND		4.5	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Isopropylbenzene	ND		4.5	0.47	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Methylene Chloride	ND		9.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 15:32	1

Client Sample ID: SB-4-1

Date Collected: 08/26/21 16:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		4.5	0.73	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Naphthalene	ND		4.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
n-Butylbenzene	ND		4.5	0.60	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
N-Propylbenzene	ND		4.5	0.26	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
o-Xylene	ND		4.5	0.30	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
p-Isopropyltoluene	ND		4.5	0.57	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
sec-Butylbenzene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Styrene	ND		4.5	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
tert-Butylbenzene	ND		4.5	0.49	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Tetrachloroethene	ND		4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Toluene	ND		4.5	0.55	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
trans-1,2-Dichloroethene	ND		4.5	0.34	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
trans-1,3-Dichloropropene	ND		4.5	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Trichloroethene	ND		4.5	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Trichlorofluoromethane	ND		4.5	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:32	1
Vinyl chloride	ND	*+	4.5	0.33	ug/Kg		08/27/21 21:26	09/01/21 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*32 - 156*	*08/27/21 21:26*	*09/01/21 15:32*	*1*
4-Bromofluorobenzene (Surr)	*99*		*63 - 143*	*08/27/21 21:26*	*09/01/21 15:32*	*1*
Dibromofluoromethane (Surr)	*109*		*55 - 129*	*08/27/21 21:26*	*09/01/21 15:32*	*1*
Toluene-d8 (Surr)	*112*		*63 - 138*	*08/27/21 21:26*	*09/01/21 15:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**17**	**F1 F2**	9.9	4.9	mg/Kg		08/28/21 07:22	08/31/21 21:10	10
Motor Oil Range Organics [C28-C40]	**200**	**F2**	49	37	mg/Kg		08/28/21 07:22	08/31/21 21:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*10*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 21:10*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.48	0.087	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Arsenic	**5.5**		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Barium	**160**		0.96	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Beryllium	**0.39**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Cadmium	**0.15**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Cobalt	**15**		0.48	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Chromium	**91**		0.48	0.13	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Copper	**29**	**B**	1.4	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Molybdenum	ND		1.9	0.72	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Nickel	**150**		0.96	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Lead	**5.8**		0.96	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Selenium	ND		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Antimony	**1.6**	**J**	1.9	0.90	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Thallium	**1.5**	**J**	1.9	0.81	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Vanadium	**41**		0.48	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:34	1
Zinc	**43**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:34	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-4-1

Lab Sample ID: 320-78145-15
Matrix: Solid

Date Collected: 08/26/21 16:05
Date Received: 08/27/21 09:15

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	J	0.038	0.0081	mg/Kg		09/02/21 09:00	09/02/21 14:07	1

Client Sample ID: SB-5-01

Lab Sample ID: 320-78145-20
Matrix: Solid

Date Collected: 08/26/21 17:05
Date Received: 08/27/21 09:15

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.54	0.054	mg/Kg		08/27/21 21:26	09/01/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 131*	*08/27/21 21:26*	*09/01/21 15:54*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.4	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1,1,2-Tetrachloroethane	ND		5.4	0.44	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1,1-Trichloroethane	ND		5.4	0.39	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1,2,2-Tetrachloroethane	ND	*3	5.4	0.73	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1,2-Trichloroethane	ND		5.4	0.47	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1-Dichloroethane	ND		5.4	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1-Dichloroethene	ND		5.4	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,1-Dichloropropene	ND		5.4	0.40	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2,3-Trichlorobenzene	ND	*3	5.4	0.81	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2,3-Trichloropropane	ND	*3	5.4	0.82	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2,4-Trichlorobenzene	ND	*3	5.4	0.81	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2,4-Trimethylbenzene	ND	*3	5.4	0.55	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dibromo-3-Chloropropane	ND	*3	11	0.94	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dibromoethane (EDB)	ND		11	0.29	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dichlorobenzene	ND	*3	5.4	0.69	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dichloroethane	ND		5.4	0.78	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,2-Dichloropropane	ND		5.4	0.64	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,3,5-Trimethylbenzene	ND	*3	5.4	0.38	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,3-Dichlorobenzene	ND	*3	5.4	0.32	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,3-Dichloropropane	ND		5.4	0.61	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
1,4-Dichlorobenzene	ND	*3	5.4	0.84	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
2,2-Dichloropropane	ND		5.4	0.41	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
2-Chlorotoluene	ND	*3	5.4	0.67	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
4-Chlorotoluene	ND	*3	5.4	0.92	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromobenzene	ND	*3	5.4	0.56	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromochloromethane	ND		5.4	1.0	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromodichloromethane	ND		5.4	0.57	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromoform	ND		5.4	0.43	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Bromomethane	ND		5.4	0.92	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Carbon tetrachloride	ND		5.4	0.57	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Chlorobenzene	ND		5.4	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Chloroethane	ND		5.4	0.48	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Chloroform	ND		5.4	0.28	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Chloromethane	ND		5.4	0.54	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
cis-1,2-Dichloroethene	ND		5.4	0.96	ug/Kg		08/27/21 21:26	09/01/21 15:54	1

Client Sample ID: SB-5-01

Date Collected: 08/26/21 17:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-20

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.4	0.69	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Dibromomethane	ND		5.4	0.62	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Dichlorodifluoromethane	ND	*+ *1	5.4	0.96	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Ethylbenzene	ND		5.4	0.36	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Hexachlorobutadiene	ND	*3	5.4	0.35	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Isopropylbenzene	ND		5.4	0.56	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Methylene Chloride	ND		11	0.90	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
m-Xylene & p-Xylene	ND		5.4	0.87	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Naphthalene	ND	*3	5.4	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
n-Butylbenzene	ND	*3	5.4	0.71	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
N-Propylbenzene	ND	*3	5.4	0.31	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
o-Xylene	ND		5.4	0.35	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
p-Isopropyltoluene	ND	*3	5.4	0.68	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
sec-Butylbenzene	ND	*3	5.4	0.81	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Styrene	ND		5.4	0.33	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
tert-Butylbenzene	ND	*3	5.4	0.58	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Tetrachloroethene	ND		5.4	0.65	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Toluene	ND		5.4	0.65	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
trans-1,2-Dichloroethene	ND		5.4	0.41	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
trans-1,3-Dichloropropene	ND		5.4	0.81	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Trichloroethene	ND		5.4	0.64	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Trichlorofluoromethane	ND		5.4	0.36	ug/Kg		08/27/21 21:26	09/01/21 15:54	1
Vinyl chloride	ND	*+	5.4	0.39	ug/Kg		08/27/21 21:26	09/01/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*32 - 156*	*08/27/21 21:26*	*09/01/21 15:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*63 - 143*	*08/27/21 21:26*	*09/01/21 15:54*	*1*
Dibromofluoromethane (Surr)	*110*		*55 - 129*	*08/27/21 21:26*	*09/01/21 15:54*	*1*
Toluene-d8 (Surr)	*110*		*63 - 138*	*08/27/21 21:26*	*09/01/21 15:54*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.97	0.48	mg/Kg		08/28/21 07:22	08/31/21 02:48	1
Motor Oil Range Organics [C28-C40]	ND		4.8	3.7	mg/Kg		08/28/21 07:22	08/31/21 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*42*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 02:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.087	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Arsenic	**9.5**		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Barium	**130**		0.97	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Beryllium	**0.45**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Cadmium	**0.14**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Cobalt	**4.7**		0.49	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Chromium	**28**		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Copper	**20**	**B**	1.5	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Molybdenum	ND		1.9	0.73	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Nickel	**26**		0.97	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:38	1

Client Sample ID: SB-5-01

Lab Sample ID: 320-78145-20

Date Collected: 08/26/21 17:05
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**5.3**		0.97	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Selenium	ND		1.9	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Antimony	ND		1.9	0.91	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Thallium	**0.94**	**J**	1.9	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Vanadium	**23**		0.49	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:38	1
Zinc	**40**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:38	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.038	0.0081	mg/Kg		09/02/21 09:00	09/02/21 14:09	1

Client Sample ID: SB-6-01

Lab Sample ID: 320-78145-25

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.65	0.065	mg/Kg		08/27/21 21:26	09/01/21 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 131*	*08/27/21 21:26*	*09/01/21 16:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1,1,2-Tetrachloroethane	ND		6.5	0.54	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1,1-Trichloroethane	ND		6.5	0.47	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1,2,2-Tetrachloroethane	ND	*3	6.5	0.89	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1,2-Trichloroethane	ND		6.5	0.57	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1-Dichloroethane	ND		6.5	0.38	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1-Dichloroethene	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,1-Dichloropropene	ND		6.5	0.48	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2,3-Trichlorobenzene	ND	*3	6.5	0.98	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2,3-Trichloropropane	ND	*3	6.5	0.99	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2,4-Trichlorobenzene	ND	*3	6.5	0.98	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2,4-Trimethylbenzene	ND	*3	6.5	0.67	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dibromo-3-Chloropropane	ND	*3	13	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dibromoethane (EDB)	ND		13	0.35	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dichlorobenzene	ND	*3	6.5	0.84	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dichloroethane	ND		6.5	0.95	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,2-Dichloropropane	ND		6.5	0.78	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,3,5-Trimethylbenzene	ND	*3	6.5	0.46	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,3-Dichlorobenzene	ND	*3	6.5	0.39	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,3-Dichloropropane	ND		6.5	0.74	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
1,4-Dichlorobenzene	ND	*3	6.5	1.0	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
2,2-Dichloropropane	ND		6.5	0.50	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
2-Chlorotoluene	ND	*3	6.5	0.81	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
4-Chlorotoluene	ND	*3	6.5	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Bromobenzene	ND	*3	6.5	0.68	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Bromochloromethane	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/02/21 14:49	1

Client Sample ID: SB-6-01

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-25

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		6.5	0.69	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Bromoform	ND		6.5	0.52	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Bromomethane	ND		6.5	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Carbon tetrachloride	ND		6.5	0.69	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Chlorobenzene	ND		6.5	0.38	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Chloroethane	ND		6.5	0.59	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Chloroform	ND		6.5	0.34	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Chloromethane	ND		6.5	0.65	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
cis-1,2-Dichloroethene	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
cis-1,3-Dichloropropene	ND		6.5	0.84	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Dibromomethane	ND		6.5	0.76	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Dichlorodifluoromethane	ND		6.5	1.2	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Ethylbenzene	ND		6.5	0.44	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Hexachlorobutadiene	ND	*3	6.5	0.43	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Isopropylbenzene	ND		6.5	0.68	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Methylene Chloride	ND		13	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
m-Xylene & p-Xylene	ND		6.5	1.1	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Naphthalene	ND	*3	6.5	0.82	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
n-Butylbenzene	ND	*3	6.5	0.86	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
N-Propylbenzene	ND	*+ *3	6.5	0.38	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
o-Xylene	ND		6.5	0.43	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
p-Isopropyltoluene	ND	*3	6.5	0.82	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
sec-Butylbenzene	ND	*+ *3	6.5	0.98	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Styrene	ND		6.5	0.40	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
tert-Butylbenzene	ND	*+ *3	6.5	0.71	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Tetrachloroethene	ND		6.5	0.80	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Toluene	ND		6.5	0.80	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
trans-1,2-Dichloroethene	ND		6.5	0.50	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
trans-1,3-Dichloropropene	ND		6.5	0.98	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Trichloroethene	ND		6.5	0.78	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Trichlorofluoromethane	ND		6.5	0.44	ug/Kg		08/27/21 21:26	09/02/21 14:49	1
Vinyl chloride	ND		6.5	0.47	ug/Kg		08/27/21 21:26	09/02/21 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*32 - 156*	*08/27/21 21:26*	*09/02/21 14:49*	*1*
4-Bromofluorobenzene (Surr)	*91*		*63 - 143*	*08/27/21 21:26*	*09/02/21 14:49*	*1*
Dibromofluoromethane (Surr)	*113*		*55 - 129*	*08/27/21 21:26*	*09/02/21 14:49*	*1*
Toluene-d8 (Surr)	*109*		*63 - 138*	*08/27/21 21:26*	*09/02/21 14:49*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.8**		1.0	0.50	mg/Kg		08/28/21 07:22	08/31/21 03:13	1
Motor Oil Range Organics [C28-C40]	**6.2**		5.0	3.8	mg/Kg		08/28/21 07:22	08/31/21 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*48*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 03:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.088	mg/Kg		08/30/21 14:07	08/31/21 13:42	1

Client Sample ID: SB-6-01

Lab Sample ID: 320-78145-25

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Barium	160		0.98	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Beryllium	0.61		0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Cadmium	0.17	J	0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Cobalt	6.9		0.49	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Chromium	40		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Copper	26	B	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Nickel	36		0.98	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Lead	8.7		0.98	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Antimony	ND		2.0	0.92	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Thallium	0.83	J	2.0	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Vanadium	31		0.49	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:42	1
Zinc	56		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:42	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.037	0.0079	mg/Kg		09/02/21 09:00	09/02/21 14:10	1

Client Sample ID: SB-6-02

Lab Sample ID: 320-78145-26

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.50	0.050	mg/Kg		08/27/21 21:26	09/01/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 131*	*08/27/21 21:26*	*09/01/21 16:39*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.41	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1,2,2-Tetrachloroethane	ND	*3	5.0	0.68	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1,2-Trichloroethane	ND		5.0	0.44	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1-Dichloroethane	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1-Dichloroethene	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,1-Dichloropropene	ND		5.0	0.37	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2,3-Trichlorobenzene	ND	*3	5.0	0.75	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2,3-Trichloropropane	ND	*3	5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2,4-Trichlorobenzene	ND	*3	5.0	0.75	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2,4-Trimethylbenzene	ND	*3	5.0	0.51	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dibromo-3-Chloropropane	ND	*3	10	0.88	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dichlorobenzene	ND	*3	5.0	0.64	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dichloroethane	ND		5.0	0.73	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,2-Dichloropropane	ND		5.0	0.60	ug/Kg		08/27/21 21:26	09/01/21 16:39	1

Client Sample ID: SB-6-02

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-26

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND	*3	5.0	0.35	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,3-Dichlorobenzene	ND	*3	5.0	0.30	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,3-Dichloropropane	ND		5.0	0.57	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
1,4-Dichlorobenzene	ND	*3	5.0	0.78	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
2,2-Dichloropropane	ND		5.0	0.38	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
2-Chlorotoluene	ND	*3	5.0	0.62	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
4-Chlorotoluene	ND	*3	5.0	0.86	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Bromobenzene	ND	*3	5.0	0.52	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Bromochloromethane	ND		5.0	0.94	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Bromodichloromethane	ND		5.0	0.53	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Bromoform	ND		5.0	0.40	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Bromomethane	ND		5.0	0.86	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Carbon tetrachloride	ND		5.0	0.53	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Chlorobenzene	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Chloroethane	ND		5.0	0.45	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Chloroform	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Chloromethane	ND		5.0	0.50	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
cis-1,2-Dichloroethene	ND		5.0	0.89	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
cis-1,3-Dichloropropene	ND		5.0	0.64	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Dibromomethane	ND		5.0	0.58	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Dichlorodifluoromethane	ND	*+ *1	5.0	0.89	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Ethylbenzene	ND		5.0	0.34	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Hexachlorobutadiene	ND	*3	5.0	0.33	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Isopropylbenzene	ND		5.0	0.52	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Methylene Chloride	ND		10	0.84	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
m-Xylene & p-Xylene	ND		5.0	0.81	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Naphthalene	ND	*3	5.0	0.63	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
n-Butylbenzene	ND	*3	5.0	0.66	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
N-Propylbenzene	ND	*3	5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
o-Xylene	ND		5.0	0.33	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
p-Isopropyltoluene	ND	*3	5.0	0.63	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
sec-Butylbenzene	ND	*3	5.0	0.75	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Styrene	ND		5.0	0.31	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
tert-Butylbenzene	ND	*3	5.0	0.54	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Tetrachloroethene	ND		5.0	0.61	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Toluene	ND		5.0	0.61	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
trans-1,2-Dichloroethene	ND		5.0	0.38	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
trans-1,3-Dichloropropene	ND		5.0	0.75	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Trichloroethene	ND		5.0	0.60	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Trichlorofluoromethane	ND		5.0	0.34	ug/Kg		08/27/21 21:26	09/01/21 16:39	1
Vinyl chloride	ND	*+	5.0	0.36	ug/Kg		08/27/21 21:26	09/01/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*32 - 156*	*08/27/21 21:26*	*09/01/21 16:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*63 - 143*	*08/27/21 21:26*	*09/01/21 16:39*	*1*
Dibromofluoromethane (Surr)	*110*		*55 - 129*	*08/27/21 21:26*	*09/01/21 16:39*	*1*
Toluene-d8 (Surr)	*112*		*63 - 138*	*08/27/21 21:26*	*09/01/21 16:39*	*1*

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-6-02

Lab Sample ID: 320-78145-26

Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**0.74**	**J**	0.99	0.50	mg/Kg		08/28/21 07:22	08/31/21 03:38	1
Motor Oil Range Organics [C28-C40]	ND		5.0	3.7	mg/Kg		08/28/21 07:22	08/31/21 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*50*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 03:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.48	0.086	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Arsenic	**4.2**		1.9	1.2	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Barium	**160**		0.95	0.11	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Beryllium	**0.70**		0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Cadmium	**0.11**	**J**	0.19	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Cobalt	**9.2**		0.48	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Chromium	**42**		0.48	0.13	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Copper	**22**	**B**	1.4	0.21	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Molybdenum	ND		1.9	0.71	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Nickel	**42**		0.95	0.23	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Lead	**6.9**		0.95	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Selenium	ND		1.9	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Antimony	ND		1.9	0.90	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Thallium	**1.1**	**J**	1.9	0.80	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Vanadium	**33**		0.48	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:47	1
Zinc	**52**		1.9	0.18	mg/Kg		08/30/21 14:07	08/31/21 13:47	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**	**J**	0.041	0.0089	mg/Kg		09/02/21 09:00	09/02/21 14:12	1

Client Sample ID: SB-7-1

Lab Sample ID: 320-78145-30

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.51	0.051	mg/Kg		08/27/21 21:26	09/01/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 131*	*08/27/21 21:26*	*09/01/21 17:01*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.1	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1,1,2-Tetrachloroethane	ND		5.1	0.42	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.69	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1,2-Trichloroethane	ND		5.1	0.45	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1-Dichloroethane	ND		5.1	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1-Dichloroethene	ND		5.1	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,1-Dichloropropene	ND		5.1	0.38	ug/Kg		08/27/21 21:26	09/01/21 17:01	1

Client Sample ID: SB-7-1

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-30

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		5.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2,3-Trichloropropane	ND		5.1	0.77	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2,4-Trichlorobenzene	ND		5.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2,4-Trimethylbenzene	ND		5.1	0.52	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dibromo-3-Chloropropane	ND		10	0.89	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dichlorobenzene	ND		5.1	0.65	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dichloroethane	ND		5.1	0.74	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,2-Dichloropropane	ND		5.1	0.61	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,3,5-Trimethylbenzene	ND		5.1	0.36	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,3-Dichlorobenzene	ND		5.1	0.30	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,3-Dichloropropane	ND		5.1	0.58	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
1,4-Dichlorobenzene	ND		5.1	0.79	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
2,2-Dichloropropane	ND		5.1	0.39	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
2-Chlorotoluene	ND		5.1	0.63	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
4-Chlorotoluene	ND		5.1	0.87	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromobenzene	ND		5.1	0.53	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromochloromethane	ND		5.1	0.95	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromodichloromethane	ND		5.1	0.54	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromoform	ND		5.1	0.41	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Bromomethane	ND		5.1	0.87	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Carbon tetrachloride	ND		5.1	0.54	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Chlorobenzene	ND		5.1	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Chloroethane	ND		5.1	0.46	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Chloroform	ND		5.1	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Chloromethane	ND		5.1	0.51	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
cis-1,2-Dichloroethene	ND		5.1	0.90	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
cis-1,3-Dichloropropene	ND		5.1	0.65	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Dibromomethane	ND		5.1	0.59	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Dichlorodifluoromethane	ND	*+ *1	5.1	0.90	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Ethylbenzene	ND		5.1	0.35	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Hexachlorobutadiene	ND		5.1	0.34	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Isopropylbenzene	ND		5.1	0.53	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Methylene Chloride	ND		10	0.85	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
m-Xylene & p-Xylene	ND		5.1	0.82	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Naphthalene	ND		5.1	0.64	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
n-Butylbenzene	ND		5.1	0.67	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
N-Propylbenzene	ND		5.1	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
o-Xylene	ND		5.1	0.34	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
p-Isopropyltoluene	ND		5.1	0.64	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
sec-Butylbenzene	ND		5.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Styrene	ND		5.1	0.31	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
tert-Butylbenzene	ND		5.1	0.55	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Tetrachloroethene	ND		5.1	0.62	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Toluene	ND		5.1	0.62	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
trans-1,2-Dichloroethene	ND		5.1	0.39	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
trans-1,3-Dichloropropene	ND		5.1	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Trichloroethene	ND		5.1	0.61	ug/Kg		08/27/21 21:26	09/01/21 17:01	1
Trichlorofluoromethane	ND		5.1	0.35	ug/Kg		08/27/21 21:26	09/01/21 17:01	1

Client Sample ID: SB-7-1

Lab Sample ID: 320-78145-30

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND	*+	5.1	0.37	ug/Kg		08/27/21 21:26	09/01/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*32 - 156*	*08/27/21 21:26*	*09/01/21 17:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*63 - 143*	*08/27/21 21:26*	*09/01/21 17:01*	*1*
Dibromofluoromethane (Surr)	*110*		*55 - 129*	*08/27/21 21:26*	*09/01/21 17:01*	*1*
Toluene-d8 (Surr)	*112*		*63 - 138*	*08/27/21 21:26*	*09/01/21 17:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98	0.49	mg/Kg		08/28/21 07:22	08/31/21 04:02	1
Motor Oil Range Organics [C28-C40]	ND		4.9	3.7	mg/Kg		08/28/21 07:22	08/31/21 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*59*		*51 - 111*	*08/28/21 07:22*	*08/31/21 04:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.089	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Arsenic	**4.8**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Barium	**150**		0.99	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Beryllium	**0.64**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Cadmium	**0.24**		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Cobalt	**7.9**		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Chromium	**49**		0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Copper	**20**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Molybdenum	ND		2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Nickel	**43**		0.99	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Lead	**11**		0.99	0.26	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Antimony	ND		2.0	0.93	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Thallium	**1.1**	**J**	2.0	0.83	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Vanadium	**34**		0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:51	1
Zinc	**88**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:51	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.041	0.0089	mg/Kg		09/02/21 09:00	09/02/21 16:06	1

Client Sample ID: SB-7-2

Lab Sample ID: 320-78145-31

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.50	0.050	mg/Kg		08/27/21 21:26	09/01/21 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 131*	*08/27/21 21:26*	*09/01/21 17:24*	*1*

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-7-2

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-31

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.41	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.69	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1,2-Trichloroethane	ND		5.0	0.44	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1-Dichloroethane	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1-Dichloroethene	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,1-Dichloropropene	ND		5.0	0.37	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2,3-Trichlorobenzene	ND		5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2,3-Trichloropropane	ND		5.0	0.77	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2,4-Trichlorobenzene	ND		5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2,4-Trimethylbenzene	ND		5.0	0.51	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2-Dibromo-3-Chloropropane	ND		10	0.89	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2-Dichlorobenzene	ND		5.0	0.65	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2-Dichloroethane	ND		5.0	0.74	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,2-Dichloropropane	ND		5.0	0.60	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,3,5-Trimethylbenzene	ND		5.0	0.35	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,3-Dichlorobenzene	ND		5.0	0.30	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,3-Dichloropropane	ND		5.0	0.57	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
1,4-Dichlorobenzene	ND		5.0	0.79	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
2,2-Dichloropropane	ND		5.0	0.38	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
2-Chlorotoluene	ND		5.0	0.63	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
4-Chlorotoluene	ND		5.0	0.87	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromobenzene	ND		5.0	0.52	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromochloromethane	ND		5.0	0.95	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromodichloromethane	ND		5.0	0.53	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromoform	ND		5.0	0.40	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Bromomethane	ND		5.0	0.87	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Carbon tetrachloride	ND		5.0	0.53	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Chlorobenzene	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Chloroethane	ND		5.0	0.45	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Chloroform	ND		5.0	0.26	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Chloromethane	ND		5.0	0.50	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
cis-1,2-Dichloroethene	ND		5.0	0.90	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
cis-1,3-Dichloropropene	ND		5.0	0.65	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Dibromomethane	ND		5.0	0.58	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Dichlorodifluoromethane	ND	*+ *1	5.0	0.90	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Ethylbenzene	ND		5.0	0.34	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Hexachlorobutadiene	ND		5.0	0.33	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Isopropylbenzene	ND		5.0	0.52	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Methylene Chloride	ND		10	0.85	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
m-Xylene & p-Xylene	ND		5.0	0.82	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Naphthalene	ND		5.0	0.64	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
n-Butylbenzene	ND		5.0	0.67	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
N-Propylbenzene	ND		5.0	0.29	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
o-Xylene	ND		5.0	0.33	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
p-Isopropyltoluene	ND		5.0	0.64	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
sec-Butylbenzene	ND		5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:24	1

Client Sample ID: SB-7-2

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-31

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.0	0.31	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
tert-Butylbenzene	ND		5.0	0.54	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Tetrachloroethene	ND		5.0	0.62	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Toluene	ND		5.0	0.62	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
trans-1,2-Dichloroethene	ND		5.0	0.38	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
trans-1,3-Dichloropropene	ND		5.0	0.76	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Trichloroethene	ND		5.0	0.60	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Trichlorofluoromethane	ND		5.0	0.34	ug/Kg		08/27/21 21:26	09/01/21 17:24	1
Vinyl chloride	ND	*+	5.0	0.36	ug/Kg		08/27/21 21:26	09/01/21 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*32 - 156*	*08/27/21 21:26*	*09/01/21 17:24*	*1*
4-Bromofluorobenzene (Surr)	*107*		*63 - 143*	*08/27/21 21:26*	*09/01/21 17:24*	*1*
Dibromofluoromethane (Surr)	*108*		*55 - 129*	*08/27/21 21:26*	*09/01/21 17:24*	*1*
Toluene-d8 (Surr)	*114*		*63 - 138*	*08/27/21 21:26*	*09/01/21 17:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98	0.49	mg/Kg		08/28/21 07:22	08/31/21 04:27	1
Motor Oil Range Organics [C28-C40]	ND		4.9	3.7	mg/Kg		08/28/21 07:22	08/31/21 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*44*	*S1-*	*51 - 111*	*08/28/21 07:22*	*08/31/21 04:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.49	0.088	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Arsenic	**8.9**		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Barium	**120**		0.98	0.12	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Beryllium	**0.77**		0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Cadmium	**0.24**		0.20	0.029	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Cobalt	**13**		0.49	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Chromium	**53**		0.49	0.14	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Copper	**34**	**B**	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Molybdenum	**1.0**	**J**	2.0	0.74	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Nickel	**68**		0.98	0.24	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Lead	**10**		0.98	0.25	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Antimony	ND		2.0	0.92	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Thallium	**0.96**	**J**	2.0	0.82	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Vanadium	**46**		0.49	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:55	1
Zinc	**81**		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 13:55	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**	**J**	0.042	0.0091	mg/Kg		09/02/21 09:00	09/02/21 16:08	1

Surrogate Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(32-156)	(63-143)	(55-129)	(63-138)
320-78145-1	SB-1-1.5	108	83 *3	117	106
320-78145-2	SB-1-2.5	112	110	113	111
320-78145-6	SB-2-1.0	103	89	113	109
320-78145-7	SB-2-2.0	107	111	113	114
320-78145-10 - RA	SB-3-1.5	102	94	111	109
320-78145-11	SB-3-2.5	101	97	109	108
320-78145-15	SB-4-1	101	99	109	112
320-78145-20	SB-5-01	101	99	110	110
320-78145-25 - RA	SB-6-01	105	91	113	109
320-78145-26	SB-6-02	102	97	110	112
320-78145-30	SB-7-1	99	104	110	112
320-78145-31	SB-7-2	102	107	108	114
LCS 320-521640/9	Lab Control Sample	102	112	111	117
LCS 320-522017/3	Lab Control Sample	104	112	111	116
LCSD 320-521640/31	Lab Control Sample Dup	103	109	109	115
LCSD 320-522017/4	Lab Control Sample Dup	103	112	112	117
MB 320-521640/12	Method Blank	100	111	110	114
MB 320-522017/7	Method Blank	101	111	111	112

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)
		BFB
Lab Sample ID	Client Sample ID	(70-131)
320-78145-1	SB-1-1.5	83
320-78145-2	SB-1-2.5	80
320-78145-6	SB-2-1.0	89
320-78145-7	SB-2-2.0	95
320-78145-10	SB-3-1.5	86
320-78145-11	SB-3-2.5	97
320-78145-15	SB-4-1	99
320-78145-20	SB-5-01	99
320-78145-25	SB-6-01	88
320-78145-26	SB-6-02	97
320-78145-30	SB-7-1	104
320-78145-31	SB-7-2	107
LCS 320-521639/5	Lab Control Sample	112
LCSD 320-521639/6	Lab Control Sample Dup	111
MB 320-521639/12	Method Blank	111

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**OTPH1 (51-111)**							
320-78145-1	SB-1-1.5	32 S1-							
320-78145-2	SB-1-2.5	41 S1-							
320-78145-6	SB-2-1.0	32 S1-							
320-78145-7	SB-2-2.0	36 S1-							
320-78145-10	SB-3-1.5	37 S1-							
320-78145-11	SB-3-2.5	41 S1-							
320-78145-15	SB-4-1	10 S1-							
320-78145-15 MS	SB-4-1	21 S1-							
320-78145-15 MSD	SB-4-1	23 S1-							
320-78145-20	SB-5-01	42 S1-							
320-78145-25	SB-6-01	48 S1-							
320-78145-26	SB-6-02	50 S1-							
320-78145-30	SB-7-1	59							
320-78145-31	SB-7-2	44 S1-							
LCS 320-520594/2-A	Lab Control Sample	76							
MB 320-520594/1-A	Method Blank	63							

Surrogate Legend

OTPH = o-Terphenyl (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 320-521640/12
Matrix: Solid
Analysis Batch: 521640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.26	ug/Kg			09/01/21 12:32	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.41	ug/Kg			09/01/21 12:32	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			09/01/21 12:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.68	ug/Kg			09/01/21 12:32	1
1,1,2-Trichloroethane	ND		5.0	0.44	ug/Kg			09/01/21 12:32	1
1,1-Dichloroethane	ND		5.0	0.29	ug/Kg			09/01/21 12:32	1
1,1-Dichloroethene	ND		5.0	0.26	ug/Kg			09/01/21 12:32	1
1,1-Dichloropropene	ND		5.0	0.37	ug/Kg			09/01/21 12:32	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg			09/01/21 12:32	1
1,2,3-Trichloropropane	ND		5.0	0.76	ug/Kg			09/01/21 12:32	1
1,2,4-Trichlorobenzene	ND		5.0	0.75	ug/Kg			09/01/21 12:32	1
1,2,4-Trimethylbenzene	ND		5.0	0.51	ug/Kg			09/01/21 12:32	1
1,2-Dibromo-3-Chloropropane	ND		10	0.88	ug/Kg			09/01/21 12:32	1
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg			09/01/21 12:32	1
1,2-Dichlorobenzene	ND		5.0	0.64	ug/Kg			09/01/21 12:32	1
1,2-Dichloroethane	ND		5.0	0.73	ug/Kg			09/01/21 12:32	1
1,2-Dichloropropane	ND		5.0	0.60	ug/Kg			09/01/21 12:32	1
1,3,5-Trimethylbenzene	ND		5.0	0.35	ug/Kg			09/01/21 12:32	1
1,3-Dichlorobenzene	ND		5.0	0.30	ug/Kg			09/01/21 12:32	1
1,3-Dichloropropane	ND		5.0	0.57	ug/Kg			09/01/21 12:32	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg			09/01/21 12:32	1
2,2-Dichloropropane	ND		5.0	0.38	ug/Kg			09/01/21 12:32	1
2-Chlorotoluene	ND		5.0	0.62	ug/Kg			09/01/21 12:32	1
4-Chlorotoluene	ND		5.0	0.86	ug/Kg			09/01/21 12:32	1
Bromobenzene	ND		5.0	0.52	ug/Kg			09/01/21 12:32	1
Bromochloromethane	ND		5.0	0.94	ug/Kg			09/01/21 12:32	1
Bromodichloromethane	ND		5.0	0.53	ug/Kg			09/01/21 12:32	1
Bromoform	ND		5.0	0.40	ug/Kg			09/01/21 12:32	1
Bromomethane	ND		5.0	0.86	ug/Kg			09/01/21 12:32	1
Carbon tetrachloride	ND		5.0	0.53	ug/Kg			09/01/21 12:32	1
Chlorobenzene	ND		5.0	0.29	ug/Kg			09/01/21 12:32	1
Chloroethane	ND		5.0	0.45	ug/Kg			09/01/21 12:32	1
Chloroform	ND		5.0	0.26	ug/Kg			09/01/21 12:32	1
Chloromethane	ND		5.0	0.50	ug/Kg			09/01/21 12:32	1
cis-1,2-Dichloroethene	ND		5.0	0.89	ug/Kg			09/01/21 12:32	1
cis-1,3-Dichloropropene	ND		5.0	0.64	ug/Kg			09/01/21 12:32	1
Dibromomethane	ND		5.0	0.58	ug/Kg			09/01/21 12:32	1
Dichlorodifluoromethane	ND		5.0	0.89	ug/Kg			09/01/21 12:32	1
Ethylbenzene	ND		5.0	0.34	ug/Kg			09/01/21 12:32	1
Hexachlorobutadiene	ND		5.0	0.33	ug/Kg			09/01/21 12:32	1
Isopropylbenzene	ND		5.0	0.52	ug/Kg			09/01/21 12:32	1
Methylene Chloride	ND		10	0.84	ug/Kg			09/01/21 12:32	1
m-Xylene & p-Xylene	ND		5.0	0.81	ug/Kg			09/01/21 12:32	1
Naphthalene	ND		5.0	0.63	ug/Kg			09/01/21 12:32	1
n-Butylbenzene	ND		5.0	0.66	ug/Kg			09/01/21 12:32	1
N-Propylbenzene	ND		5.0	0.29	ug/Kg			09/01/21 12:32	1
o-Xylene	ND		5.0	0.33	ug/Kg			09/01/21 12:32	1
p-Isopropyltoluene	ND		5.0	0.63	ug/Kg			09/01/21 12:32	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-521640/12
Matrix: Solid
Analysis Batch: 521640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	0.75	ug/Kg			09/01/21 12:32	1
Styrene	ND		5.0	0.31	ug/Kg			09/01/21 12:32	1
tert-Butylbenzene	ND		5.0	0.54	ug/Kg			09/01/21 12:32	1
Tetrachloroethene	ND		5.0	0.61	ug/Kg			09/01/21 12:32	1
Toluene	ND		5.0	0.61	ug/Kg			09/01/21 12:32	1
trans-1,2-Dichloroethene	ND		5.0	0.38	ug/Kg			09/01/21 12:32	1
trans-1,3-Dichloropropene	ND		5.0	0.75	ug/Kg			09/01/21 12:32	1
Trichloroethene	ND		5.0	0.60	ug/Kg			09/01/21 12:32	1
Trichlorofluoromethane	ND		5.0	0.34	ug/Kg			09/01/21 12:32	1
Vinyl chloride	ND		5.0	0.36	ug/Kg			09/01/21 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*32 - 156*		*09/01/21 12:32*	*1*
4-Bromofluorobenzene (Surr)	*111*		*63 - 143*		*09/01/21 12:32*	*1*
Dibromofluoromethane (Surr)	*110*		*55 - 129*		*09/01/21 12:32*	*1*
Toluene-d8 (Surr)	*114*		*63 - 138*		*09/01/21 12:32*	*1*

Lab Sample ID: LCS 320-521640/9
Matrix: Solid
Analysis Batch: 521640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	56.1		ug/Kg		112	78 - 128
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/Kg		109	77 - 134
1,1,1-Trichloroethane	50.0	61.0		ug/Kg		122	67 - 150
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/Kg		111	71 - 134
1,1,2-Trichloroethane	50.0	53.4		ug/Kg		107	80 - 128
1,1-Dichloroethane	50.0	55.5		ug/Kg		111	76 - 134
1,1-Dichloroethene	50.0	65.3		ug/Kg		131	66 - 136
1,1-Dichloropropene	50.0	62.0		ug/Kg		124	76 - 132
1,2,3-Trichlorobenzene	50.0	55.6		ug/Kg		111	54 - 140
1,2,3-Trichloropropane	50.0	55.2		ug/Kg		110	71 - 132
1,2,4-Trichlorobenzene	50.0	56.9		ug/Kg		114	48 - 145
1,2,4-Trimethylbenzene	50.0	59.4		ug/Kg		119	64 - 137
1,2-Dibromo-3-Chloropropane	50.0	54.3		ug/Kg		109	75 - 137
1,2-Dibromoethane (EDB)	50.0	52.1		ug/Kg		104	80 - 124
1,2-Dichlorobenzene	50.0	55.5		ug/Kg		111	68 - 121
1,2-Dichloroethane	50.0	49.3		ug/Kg		99	66 - 150
1,2-Dichloropropane	50.0	53.1		ug/Kg		106	80 - 129
1,3,5-Trimethylbenzene	50.0	61.1		ug/Kg		122	66 - 135
1,3-Dichlorobenzene	50.0	56.4		ug/Kg		113	64 - 126
1,3-Dichloropropane	50.0	52.6		ug/Kg		105	80 - 123
1,4-Dichlorobenzene	50.0	55.7		ug/Kg		111	65 - 124
2,2-Dichloropropane	50.0	62.6		ug/Kg		125	69 - 153
2-Chlorotoluene	50.0	60.2		ug/Kg		120	64 - 127
4-Chlorotoluene	50.0	59.0		ug/Kg		118	67 - 128
Bromobenzene	50.0	56.0		ug/Kg		112	67 - 132
Bromochloromethane	50.0	49.1		ug/Kg		98	80 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-521640/9
Matrix: Solid
Analysis Batch: 521640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	50.5		ug/Kg		101	80 - 137
Bromoform	50.0	52.2		ug/Kg		104	80 - 136
Bromomethane	50.0	55.2		ug/Kg		110	48 - 164
Carbon tetrachloride	50.0	62.7		ug/Kg		125	62 - 154
Chlorobenzene	50.0	56.5		ug/Kg		113	74 - 125
Chloroethane	50.0	58.4		ug/Kg		117	54 - 148
Chloroform	50.0	53.7		ug/Kg		107	78 - 135
Chloromethane	50.0	61.6		ug/Kg		123	60 - 141
cis-1,2-Dichloroethene	50.0	54.3		ug/Kg		109	74 - 131
cis-1,3-Dichloropropene	50.0	49.2		ug/Kg		98	80 - 134
Dibromomethane	50.0	50.3		ug/Kg		101	80 - 129
Dichlorodifluoromethane	50.0	70.2	*+	ug/Kg		140	60 - 130
Ethylbenzene	50.0	60.6		ug/Kg		121	72 - 125
Hexachlorobutadiene	50.0	63.4		ug/Kg		127	52 - 140
Isopropylbenzene	50.0	60.4		ug/Kg		121	69 - 137
Methylene Chloride	50.0	52.5		ug/Kg		105	77 - 125
m-Xylene & p-Xylene	50.0	60.5		ug/Kg		121	73 - 128
Naphthalene	50.0	56.2		ug/Kg		112	53 - 140
n-Butylbenzene	50.0	62.3		ug/Kg		125	68 - 136
N-Propylbenzene	50.0	63.4		ug/Kg		127	63 - 128
o-Xylene	50.0	58.4		ug/Kg		117	76 - 127
p-Isopropyltoluene	50.0	62.6		ug/Kg		125	64 - 137
sec-Butylbenzene	50.0	63.5		ug/Kg		127	68 - 131
Styrene	50.0	54.9		ug/Kg		110	79 - 128
tert-Butylbenzene	50.0	62.2		ug/Kg		124	67 - 131
Tetrachloroethene	50.0	65.1		ug/Kg		130	65 - 135
Toluene	50.0	61.3		ug/Kg		123	80 - 124
trans-1,2-Dichloroethene	50.0	59.9		ug/Kg		120	67 - 135
trans-1,3-Dichloropropene	50.0	49.3		ug/Kg		99	80 - 148
Trichloroethene	50.0	58.8		ug/Kg		118	80 - 126
Trichlorofluoromethane	50.0	66.9		ug/Kg		134	43 - 158
Vinyl chloride	50.0	67.5	*+	ug/Kg		135	67 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*32 - 156*
4-Bromofluorobenzene (Surr)	*112*		*63 - 143*
Dibromofluoromethane (Surr)	*111*		*55 - 129*
Toluene-d8 (Surr)	*117*		*63 - 138*

Lab Sample ID: LCSD 320-521640/31
Matrix: Solid
Analysis Batch: 521640

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	52.8		ug/Kg		106	78 - 128	6	37
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	77 - 134	2	25
1,1,1-Trichloroethane	50.0	54.9		ug/Kg		110	67 - 150	10	43
1,1,2,2-Tetrachloroethane	50.0	59.0		ug/Kg		118	71 - 134	6	31

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-521640/31
Matrix: Solid
Analysis Batch: 521640

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	50.0	54.4		ug/Kg		109	80 - 128	2	41
1,1-Dichloroethane	50.0	53.2		ug/Kg		106	76 - 134	4	24
1,1-Dichloroethene	50.0	56.7		ug/Kg		113	66 - 136	14	42
1,1-Dichloropropene	50.0	57.3		ug/Kg		115	76 - 132	8	38
1,2,3-Trichlorobenzene	50.0	52.0		ug/Kg		104	54 - 140	7	42
1,2,3-Trichloropropane	50.0	59.9		ug/Kg		120	71 - 132	8	41
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	48 - 145	12	39
1,2,4-Trimethylbenzene	50.0	57.6		ug/Kg		115	64 - 137	3	41
1,2-Dibromo-3-Chloropropane	50.0	58.5		ug/Kg		117	75 - 137	7	48
1,2-Dibromoethane (EDB)	50.0	54.0		ug/Kg		108	80 - 124	4	39
1,2-Dichlorobenzene	50.0	53.2		ug/Kg		106	68 - 121	4	28
1,2-Dichloroethane	50.0	50.1		ug/Kg		100	66 - 150	2	36
1,2-Dichloropropane	50.0	51.4		ug/Kg		103	80 - 129	3	38
1,3,5-Trimethylbenzene	50.0	59.6		ug/Kg		119	66 - 135	2	42
1,3-Dichlorobenzene	50.0	53.5		ug/Kg		107	64 - 126	5	41
1,3-Dichloropropane	50.0	54.6		ug/Kg		109	80 - 123	4	39
1,4-Dichlorobenzene	50.0	52.7		ug/Kg		105	65 - 124	6	38
2,2-Dichloropropane	50.0	54.7		ug/Kg		109	69 - 153	13	47
2-Chlorotoluene	50.0	58.0		ug/Kg		116	64 - 127	4	41
4-Chlorotoluene	50.0	56.8		ug/Kg		114	67 - 128	4	40
Bromobenzene	50.0	55.5		ug/Kg		111	67 - 132	1	40
Bromochloromethane	50.0	48.8		ug/Kg		98	80 - 127	1	36
Bromodichloromethane	50.0	49.4		ug/Kg		99	80 - 137	2	37
Bromoform	50.0	51.5		ug/Kg		103	80 - 136	1	45
Bromomethane	50.0	46.7		ug/Kg		93	48 - 164	17	38
Carbon tetrachloride	50.0	56.2		ug/Kg		112	62 - 154	11	43
Chlorobenzene	50.0	54.9		ug/Kg		110	74 - 125	3	38
Chloroethane	50.0	51.1		ug/Kg		102	54 - 148	13	34
Chloroform	50.0	52.2		ug/Kg		104	78 - 135	3	23
Chloromethane	50.0	47.8		ug/Kg		96	60 - 141	25	36
cis-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	74 - 131	6	37
cis-1,3-Dichloropropene	50.0	48.6		ug/Kg		97	80 - 134	1	39
Dibromomethane	50.0	50.3		ug/Kg		101	80 - 129	0	37
Dichlorodifluoromethane	50.0	42.6	*1	ug/Kg		85	60 - 130	49	46
Ethylbenzene	50.0	57.8		ug/Kg		116	72 - 125	5	41
Hexachlorobutadiene	50.0	57.4		ug/Kg		115	52 - 140	10	38
Isopropylbenzene	50.0	58.2		ug/Kg		116	69 - 137	4	41
Methylene Chloride	50.0	49.8		ug/Kg		100	77 - 125	5	25
m-Xylene & p-Xylene	50.0	56.6		ug/Kg		113	73 - 128	7	40
Naphthalene	50.0	56.0		ug/Kg		112	53 - 140	0	46
n-Butylbenzene	50.0	59.2		ug/Kg		118	68 - 136	5	37
N-Propylbenzene	50.0	61.2		ug/Kg		122	63 - 128	3	42
o-Xylene	50.0	55.6		ug/Kg		111	76 - 127	5	40
p-Isopropyltoluene	50.0	60.6		ug/Kg		121	64 - 137	3	40
sec-Butylbenzene	50.0	62.8		ug/Kg		126	68 - 131	1	40
Styrene	50.0	53.1		ug/Kg		106	79 - 128	3	40
tert-Butylbenzene	50.0	63.2		ug/Kg		126	67 - 131	2	42
Tetrachloroethene	50.0	59.6		ug/Kg		119	65 - 135	9	39
Toluene	50.0	59.2		ug/Kg		118	80 - 124	3	39

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-521640/31
Matrix: Solid
Analysis Batch: 521640

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	54.2		ug/Kg		108	67 - 135	10	37
trans-1,3-Dichloropropene			50.0	47.9		ug/Kg		96	80 - 148	3	42
Trichloroethene			50.0	54.3		ug/Kg		109	80 - 126	8	40
Trichlorofluoromethane			50.0	55.2		ug/Kg		110	43 - 158	19	32
Vinyl chloride			50.0	51.8		ug/Kg		104	67 - 127	26	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*32 - 156*
4-Bromofluorobenzene (Surr)	*109*		*63 - 143*
Dibromofluoromethane (Surr)	*109*		*55 - 129*
Toluene-d8 (Surr)	*115*		*63 - 138*

Lab Sample ID: MB 320-522017/7
Matrix: Solid
Analysis Batch: 522017

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.26	ug/Kg			09/02/21 11:51	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.41	ug/Kg			09/02/21 11:51	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg			09/02/21 11:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.68	ug/Kg			09/02/21 11:51	1
1,1,2-Trichloroethane	ND		5.0	0.44	ug/Kg			09/02/21 11:51	1
1,1-Dichloroethane	ND		5.0	0.29	ug/Kg			09/02/21 11:51	1
1,1-Dichloroethene	ND		5.0	0.26	ug/Kg			09/02/21 11:51	1
1,1-Dichloropropene	ND		5.0	0.37	ug/Kg			09/02/21 11:51	1
1,2,3-Trichlorobenzene	ND		5.0	0.75	ug/Kg			09/02/21 11:51	1
1,2,3-Trichloropropane	ND		5.0	0.76	ug/Kg			09/02/21 11:51	1
1,2,4-Trichlorobenzene	ND		5.0	0.75	ug/Kg			09/02/21 11:51	1
1,2,4-Trimethylbenzene	ND		5.0	0.51	ug/Kg			09/02/21 11:51	1
1,2-Dibromo-3-Chloropropane	ND		10	0.88	ug/Kg			09/02/21 11:51	1
1,2-Dibromoethane (EDB)	ND		10	0.27	ug/Kg			09/02/21 11:51	1
1,2-Dichlorobenzene	ND		5.0	0.64	ug/Kg			09/02/21 11:51	1
1,2-Dichloroethane	ND		5.0	0.73	ug/Kg			09/02/21 11:51	1
1,2-Dichloropropane	ND		5.0	0.60	ug/Kg			09/02/21 11:51	1
1,3,5-Trimethylbenzene	ND		5.0	0.35	ug/Kg			09/02/21 11:51	1
1,3-Dichlorobenzene	ND		5.0	0.30	ug/Kg			09/02/21 11:51	1
1,3-Dichloropropane	ND		5.0	0.57	ug/Kg			09/02/21 11:51	1
1,4-Dichlorobenzene	ND		5.0	0.78	ug/Kg			09/02/21 11:51	1
2,2-Dichloropropane	ND		5.0	0.38	ug/Kg			09/02/21 11:51	1
2-Chlorotoluene	ND		5.0	0.62	ug/Kg			09/02/21 11:51	1
4-Chlorotoluene	ND		5.0	0.86	ug/Kg			09/02/21 11:51	1
Bromobenzene	ND		5.0	0.52	ug/Kg			09/02/21 11:51	1
Bromochloromethane	ND		5.0	0.94	ug/Kg			09/02/21 11:51	1
Bromodichloromethane	ND		5.0	0.53	ug/Kg			09/02/21 11:51	1
Bromoform	ND		5.0	0.40	ug/Kg			09/02/21 11:51	1
Bromomethane	ND		5.0	0.86	ug/Kg			09/02/21 11:51	1
Carbon tetrachloride	ND		5.0	0.53	ug/Kg			09/02/21 11:51	1
Chlorobenzene	ND		5.0	0.29	ug/Kg			09/02/21 11:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 320-522017/7
Matrix: Solid
Analysis Batch: 522017

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		5.0	0.45	ug/Kg			09/02/21 11:51	1
Chloroform	ND		5.0	0.26	ug/Kg			09/02/21 11:51	1
Chloromethane	ND		5.0	0.50	ug/Kg			09/02/21 11:51	1
cis-1,2-Dichloroethene	ND		5.0	0.89	ug/Kg			09/02/21 11:51	1
cis-1,3-Dichloropropene	ND		5.0	0.64	ug/Kg			09/02/21 11:51	1
Dibromomethane	ND		5.0	0.58	ug/Kg			09/02/21 11:51	1
Dichlorodifluoromethane	ND		5.0	0.89	ug/Kg			09/02/21 11:51	1
Ethylbenzene	ND		5.0	0.34	ug/Kg			09/02/21 11:51	1
Hexachlorobutadiene	ND		5.0	0.33	ug/Kg			09/02/21 11:51	1
Isopropylbenzene	ND		5.0	0.52	ug/Kg			09/02/21 11:51	1
Methylene Chloride	ND		10	0.84	ug/Kg			09/02/21 11:51	1
m-Xylene & p-Xylene	ND		5.0	0.81	ug/Kg			09/02/21 11:51	1
Naphthalene	ND		5.0	0.63	ug/Kg			09/02/21 11:51	1
n-Butylbenzene	ND		5.0	0.66	ug/Kg			09/02/21 11:51	1
N-Propylbenzene	ND		5.0	0.29	ug/Kg			09/02/21 11:51	1
o-Xylene	ND		5.0	0.33	ug/Kg			09/02/21 11:51	1
p-Isopropyltoluene	ND		5.0	0.63	ug/Kg			09/02/21 11:51	1
sec-Butylbenzene	ND		5.0	0.75	ug/Kg			09/02/21 11:51	1
Styrene	ND		5.0	0.31	ug/Kg			09/02/21 11:51	1
tert-Butylbenzene	ND		5.0	0.54	ug/Kg			09/02/21 11:51	1
Tetrachloroethene	ND		5.0	0.61	ug/Kg			09/02/21 11:51	1
Toluene	ND		5.0	0.61	ug/Kg			09/02/21 11:51	1
trans-1,2-Dichloroethene	ND		5.0	0.38	ug/Kg			09/02/21 11:51	1
trans-1,3-Dichloropropene	ND		5.0	0.75	ug/Kg			09/02/21 11:51	1
Trichloroethene	ND		5.0	0.60	ug/Kg			09/02/21 11:51	1
Trichlorofluoromethane	ND		5.0	0.34	ug/Kg			09/02/21 11:51	1
Vinyl chloride	ND		5.0	0.36	ug/Kg			09/02/21 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*32 - 156*		*09/02/21 11:51*	*1*
4-Bromofluorobenzene (Surr)	*111*		*63 - 143*		*09/02/21 11:51*	*1*
Dibromofluoromethane (Surr)	*111*		*55 - 129*		*09/02/21 11:51*	*1*
Toluene-d8 (Surr)	*112*		*63 - 138*		*09/02/21 11:51*	*1*

Lab Sample ID: LCS 320-522017/3
Matrix: Solid
Analysis Batch: 522017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	55.2		ug/Kg		110	78 - 128
1,1,1,2-Tetrachloroethane	50.0	55.7		ug/Kg		111	77 - 134
1,1,1-Trichloroethane	50.0	58.4		ug/Kg		117	67 - 150
1,1,2,2-Tetrachloroethane	50.0	58.4		ug/Kg		117	71 - 134
1,1,2-Trichloroethane	50.0	56.3		ug/Kg		113	80 - 128
1,1-Dichloroethane	50.0	55.0		ug/Kg		110	76 - 134
1,1-Dichloroethene	50.0	59.1		ug/Kg		118	66 - 136
1,1-Dichloropropene	50.0	61.3		ug/Kg		123	76 - 132
1,2,3-Trichlorobenzene	50.0	58.5		ug/Kg		117	54 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 320-522017/3
Matrix: Solid
Analysis Batch: 522017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	60.8		ug/Kg		122	71 - 132
1,2,4-Trichlorobenzene	50.0	58.7		ug/Kg		117	48 - 145
1,2,4-Trimethylbenzene	50.0	60.9		ug/Kg		122	64 - 137
1,2-Dibromo-3-Chloropropane	50.0	60.0		ug/Kg		120	75 - 137
1,2-Dibromoethane (EDB)	50.0	56.0		ug/Kg		112	80 - 124
1,2-Dichlorobenzene	50.0	56.6		ug/Kg		113	68 - 121
1,2-Dichloroethane	50.0	50.7		ug/Kg		101	66 - 150
1,2-Dichloropropane	50.0	53.6		ug/Kg		107	80 - 129
1,3,5-Trimethylbenzene	50.0	62.9		ug/Kg		126	66 - 135
1,3-Dichlorobenzene	50.0	58.3		ug/Kg		117	64 - 126
1,3-Dichloropropane	50.0	56.0		ug/Kg		112	80 - 123
1,4-Dichlorobenzene	50.0	57.6		ug/Kg		115	65 - 124
2,2-Dichloropropane	50.0	58.0		ug/Kg		116	69 - 153
2-Chlorotoluene	50.0	60.5		ug/Kg		121	64 - 127
4-Chlorotoluene	50.0	60.4		ug/Kg		121	67 - 128
Bromobenzene	50.0	58.0		ug/Kg		116	67 - 132
Bromochloromethane	50.0	50.0		ug/Kg		100	80 - 127
Bromodichloromethane	50.0	51.3		ug/Kg		103	80 - 137
Bromoform	50.0	55.1		ug/Kg		110	80 - 136
Bromomethane	50.0	47.6		ug/Kg		95	48 - 164
Carbon tetrachloride	50.0	59.6		ug/Kg		119	62 - 154
Chlorobenzene	50.0	57.1		ug/Kg		114	74 - 125
Chloroethane	50.0	51.7		ug/Kg		103	54 - 148
Chloroform	50.0	53.4		ug/Kg		107	78 - 135
Chloromethane	50.0	49.3		ug/Kg		99	60 - 141
cis-1,2-Dichloroethene	50.0	52.9		ug/Kg		106	74 - 131
cis-1,3-Dichloropropene	50.0	51.5		ug/Kg		103	80 - 134
Dibromomethane	50.0	52.3		ug/Kg		105	80 - 129
Dichlorodifluoromethane	50.0	44.2		ug/Kg		88	60 - 130
Ethylbenzene	50.0	60.9		ug/Kg		122	72 - 125
Hexachlorobutadiene	50.0	66.4		ug/Kg		133	52 - 140
Isopropylbenzene	50.0	61.2		ug/Kg		122	69 - 137
Methylene Chloride	50.0	50.1		ug/Kg		100	77 - 125
m-Xylene & p-Xylene	50.0	60.2		ug/Kg		120	73 - 128
Naphthalene	50.0	59.1		ug/Kg		118	53 - 140
n-Butylbenzene	50.0	66.6		ug/Kg		133	68 - 136
N-Propylbenzene	50.0	65.7	*+	ug/Kg		131	63 - 128
o-Xylene	50.0	57.5		ug/Kg		115	76 - 127
p-Isopropyltoluene	50.0	65.9		ug/Kg		132	64 - 137
sec-Butylbenzene	50.0	67.3	*+	ug/Kg		135	68 - 131
Styrene	50.0	56.5		ug/Kg		113	79 - 128
tert-Butylbenzene	50.0	66.6	*+	ug/Kg		133	67 - 131
Tetrachloroethene	50.0	64.6		ug/Kg		129	65 - 135
Toluene	50.0	59.9		ug/Kg		120	80 - 124
trans-1,2-Dichloroethene	50.0	56.7		ug/Kg		113	67 - 135
trans-1,3-Dichloropropene	50.0	52.0		ug/Kg		104	80 - 148
Trichloroethene	50.0	57.7		ug/Kg		115	80 - 126
Trichlorofluoromethane	50.0	56.9		ug/Kg		114	43 - 158
Vinyl chloride	50.0	53.7		ug/Kg		107	67 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		32 - 156
4-Bromofluorobenzene (Surr)	112		63 - 143
Dibromofluoromethane (Surr)	111		55 - 129
Toluene-d8 (Surr)	116		63 - 138

Lab Sample ID: LCSD 320-522017/4
Matrix: Solid
Analysis Batch: 522017

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	54.7		ug/Kg		109	78 - 128	1	37
1,1,1,2-Tetrachloroethane			50.0	55.5		ug/Kg		111	77 - 134	0	25
1,1,1-Trichloroethane			50.0	59.2		ug/Kg		118	67 - 150	1	43
1,1,2,2-Tetrachloroethane			50.0	57.6		ug/Kg		115	71 - 134	1	31
1,1,2-Trichloroethane			50.0	54.9		ug/Kg		110	80 - 128	3	41
1,1-Dichloroethane			50.0	55.5		ug/Kg		111	76 - 134	1	24
1,1-Dichloroethene			50.0	59.0		ug/Kg		118	66 - 136	0	42
1,1-Dichloropropene			50.0	60.7		ug/Kg		121	76 - 132	1	38
1,2,3-Trichlorobenzene			50.0	56.4		ug/Kg		113	54 - 140	4	42
1,2,3-Trichloropropane			50.0	59.9		ug/Kg		120	71 - 132	1	41
1,2,4-Trichlorobenzene			50.0	57.4		ug/Kg		115	48 - 145	2	39
1,2,4-Trimethylbenzene			50.0	61.2		ug/Kg		122	64 - 137	0	41
1,2-Dibromo-3-Chloropropane			50.0	57.6		ug/Kg		115	75 - 137	4	48
1,2-Dibromoethane (EDB)			50.0	53.5		ug/Kg		107	80 - 124	5	39
1,2-Dichlorobenzene			50.0	55.7		ug/Kg		111	68 - 121	2	28
1,2-Dichloroethane			50.0	50.4		ug/Kg		101	66 - 150	1	36
1,2-Dichloropropane			50.0	53.1		ug/Kg		106	80 - 129	1	38
1,3,5-Trimethylbenzene			50.0	63.3		ug/Kg		127	66 - 135	1	42
1,3-Dichlorobenzene			50.0	58.2		ug/Kg		116	64 - 126	0	41
1,3-Dichloropropane			50.0	54.5		ug/Kg		109	80 - 123	3	39
1,4-Dichlorobenzene			50.0	57.1		ug/Kg		114	65 - 124	1	38
2,2-Dichloropropane			50.0	59.6		ug/Kg		119	69 - 153	3	47
2-Chlorotoluene			50.0	61.5		ug/Kg		123	64 - 127	2	41
4-Chlorotoluene			50.0	60.7		ug/Kg		121	67 - 128	0	40
Bromobenzene			50.0	58.1		ug/Kg		116	67 - 132	0	40
Bromochloromethane			50.0	49.6		ug/Kg		99	80 - 127	1	36
Bromodichloromethane			50.0	51.1		ug/Kg		102	80 - 137	0	37
Bromoform			50.0	52.4		ug/Kg		105	80 - 136	5	45
Bromomethane			50.0	47.7		ug/Kg		95	48 - 164	0	38
Carbon tetrachloride			50.0	60.1		ug/Kg		120	62 - 154	1	43
Chlorobenzene			50.0	56.6		ug/Kg		113	74 - 125	1	38
Chloroethane			50.0	52.3		ug/Kg		105	54 - 148	1	34
Chloroform			50.0	53.1		ug/Kg		106	78 - 135	0	23
Chloromethane			50.0	49.5		ug/Kg		99	60 - 141	0	36
cis-1,2-Dichloroethene			50.0	53.4		ug/Kg		107	74 - 131	1	37
cis-1,3-Dichloropropene			50.0	50.8		ug/Kg		102	80 - 134	1	39
Dibromomethane			50.0	51.4		ug/Kg		103	80 - 129	2	37
Dichlorodifluoromethane			50.0	42.7		ug/Kg		85	60 - 130	3	46
Ethylbenzene			50.0	59.7		ug/Kg		119	72 - 125	2	41
Hexachlorobutadiene			50.0	65.5		ug/Kg		131	52 - 140	1	38
Isopropylbenzene			50.0	60.6		ug/Kg		121	69 - 137	1	41

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 320-522017/4
Matrix: Solid
Analysis Batch: 522017

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	50.0	50.5		ug/Kg		101	77 - 125	1	25
m-Xylene & p-Xylene	50.0	59.3		ug/Kg		119	73 - 128	1	40
Naphthalene	50.0	57.2		ug/Kg		114	53 - 140	3	46
n-Butylbenzene	50.0	66.0		ug/Kg		132	68 - 136	1	37
N-Propylbenzene	50.0	66.0	*+	ug/Kg		132	63 - 128	1	42
o-Xylene	50.0	56.9		ug/Kg		114	76 - 127	1	40
p-Isopropyltoluene	50.0	65.6		ug/Kg		131	64 - 137	0	40
sec-Butylbenzene	50.0	67.3	*+	ug/Kg		135	68 - 131	0	40
Styrene	50.0	55.3		ug/Kg		111	79 - 128	2	40
tert-Butylbenzene	50.0	67.8	*+	ug/Kg		136	67 - 131	2	42
Tetrachloroethene	50.0	64.5		ug/Kg		129	65 - 135	0	39
Toluene	50.0	60.1		ug/Kg		120	80 - 124	0	39
trans-1,2-Dichloroethene	50.0	56.9		ug/Kg		114	67 - 135	0	37
trans-1,3-Dichloropropene	50.0	50.7		ug/Kg		101	80 - 148	3	42
Trichloroethene	50.0	57.4		ug/Kg		115	80 - 126	0	40
Trichlorofluoromethane	50.0	57.7		ug/Kg		115	43 - 158	1	32
Vinyl chloride	50.0	53.4		ug/Kg		107	67 - 127	1	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*32 - 156*
4-Bromofluorobenzene (Surr)	*112*		*63 - 143*
Dibromofluoromethane (Surr)	*112*		*55 - 129*
Toluene-d8 (Surr)	*117*		*63 - 138*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 320-521639/12
Matrix: Solid
Analysis Batch: 521639

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C4-C12	ND		0.50	0.050	mg/Kg			09/01/21 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 131*		*09/01/21 12:32*	*1*

Lab Sample ID: LCS 320-521639/5
Matrix: Solid
Analysis Batch: 521639

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C4-C12	1.00	1.06		mg/Kg		106	79 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 131*

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 320-521639/6
Matrix: Solid
Analysis Batch: 521639

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C4-C12			1.00	1.13		mg/Kg		113	79 - 123	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 131*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 320-520594/1-A
Matrix: Solid
Analysis Batch: 521051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 520594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.50	mg/Kg		08/28/21 07:22	08/30/21 22:18	1
Motor Oil Range Organics [C28-C40]	ND		5.0	3.8	mg/Kg		08/28/21 07:22	08/30/21 22:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*63*		*51 - 111*	*08/28/21 07:22*	*08/30/21 22:18*	*1*

Lab Sample ID: LCS 320-520594/2-A
Matrix: Solid
Analysis Batch: 521051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			10.0	9.58		mg/Kg		96	57 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*76*		*51 - 111*

Lab Sample ID: 320-78145-15 MS
Matrix: Solid
Analysis Batch: 521452

Client Sample ID: SB-4-1
Prep Type: Total/NA
Prep Batch: 520594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	17	F1 F2	9.81	14.7	F1	mg/Kg		-25	57 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*21*	*S1-*	*51 - 111*

Lab Sample ID: 320-78145-15 MSD
Matrix: Solid
Analysis Batch: 521452

Client Sample ID: SB-4-1
Prep Type: Total/NA
Prep Batch: 520594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	17	F1 F2	9.77	75.0	F1 F2	mg/Kg		592	57 - 132	134	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 320-78145-15 MSD
Matrix: Solid
Analysis Batch: 521452

Client Sample ID: SB-4-1
Prep Type: Total/NA
Prep Batch: 520594

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*23*	*S1-*	*51 - 111*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-521017/1-A
Matrix: Solid
Analysis Batch: 521620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 521017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.090	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Arsenic	ND		2.0	1.3	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Barium	ND		1.0	0.12	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Beryllium	ND		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Cadmium	ND		0.20	0.030	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Cobalt	ND		0.50	0.25	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Chromium	ND		0.50	0.14	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Copper	0.252	J	1.5	0.22	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Molybdenum	ND		2.0	0.75	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Nickel	ND		1.0	0.24	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Lead	ND		1.0	0.26	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Selenium	ND		2.0	1.4	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Antimony	ND		2.0	0.94	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Thallium	ND		2.0	0.84	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Vanadium	ND		0.50	0.19	mg/Kg		08/30/21 14:07	08/31/21 12:36	1
Zinc	ND		2.0	0.19	mg/Kg		08/30/21 14:07	08/31/21 12:36	1

Lab Sample ID: LCS 320-521017/2-A
Matrix: Solid
Analysis Batch: 521620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 521017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	5.05	4.34		mg/Kg		86	80 - 120
Arsenic	50.0	44.4		mg/Kg		89	80 - 120
Barium	50.0	45.8		mg/Kg		92	80 - 120
Beryllium	25.0	23.3		mg/Kg		93	80 - 120
Cadmium	25.0	23.1		mg/Kg		92	80 - 120
Cobalt	25.0	23.3		mg/Kg		93	80 - 120
Chromium	25.0	23.4		mg/Kg		93	80 - 120
Copper	25.0	22.8		mg/Kg		91	80 - 120
Molybdenum	25.0	23.2		mg/Kg		93	80 - 120
Nickel	25.0	22.6		mg/Kg		90	80 - 120
Lead	25.0	23.4		mg/Kg		94	80 - 120
Selenium	50.0	43.1		mg/Kg		86	80 - 120
Antimony	50.0	43.3		mg/Kg		87	80 - 120
Thallium	50.0	45.6		mg/Kg		91	80 - 120
Vanadium	25.0	23.1		mg/Kg		93	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 320-78145-1 MS
Matrix: Solid
Analysis Batch: 521620

Client Sample ID: SB-1-1.5
Prep Type: Total/NA
Prep Batch: 521017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		4.95	4.06		mg/Kg		82	80 - 120
Arsenic	3.5		49.0	45.8		mg/Kg		86	80 - 120
Barium	160	F1	49.0	225	F1	mg/Kg		128	80 - 120
Beryllium	0.62		24.5	22.7		mg/Kg		90	80 - 120
Cadmium	0.16	J	24.5	21.0		mg/Kg		85	80 - 120
Cobalt	8.9		24.5	28.9		mg/Kg		82	80 - 120
Chromium	51	F1	24.5	77.1		mg/Kg		107	80 - 120
Copper	26	B	24.5	49.5		mg/Kg		96	80 - 120
Molybdenum	ND		24.5	20.6		mg/Kg		84	80 - 120
Nickel	56	F1	24.5	67.8	F1	mg/Kg		50	80 - 120
Lead	9.3		24.5	30.9		mg/Kg		88	80 - 120
Selenium	ND		49.0	41.2		mg/Kg		84	80 - 120
Antimony	1.0	J F1	49.0	14.2	F1	mg/Kg		27	80 - 120
Thallium	0.87	J	49.0	41.6		mg/Kg		83	80 - 120
Vanadium	32	F1	24.5	62.0	F1	mg/Kg		121	80 - 120
Zinc	70		49.0	124		mg/Kg		109	80 - 120

Lab Sample ID: 320-78145-1 MSD
Matrix: Solid
Analysis Batch: 521620

Client Sample ID: SB-1-1.5
Prep Type: Total/NA
Prep Batch: 521017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		4.95	4.00		mg/Kg		81	80 - 120	2	35
Arsenic	3.5		49.0	45.5		mg/Kg		86	80 - 120	1	35
Barium	160	F1	49.0	218		mg/Kg		114	80 - 120	3	35
Beryllium	0.62		24.5	22.2		mg/Kg		88	80 - 120	2	35
Cadmium	0.16	J	24.5	20.7		mg/Kg		84	80 - 120	2	35
Cobalt	8.9		24.5	29.4		mg/Kg		84	80 - 120	2	35
Chromium	51	F1	24.5	82.9	F1	mg/Kg		131	80 - 120	7	35
Copper	26	B	24.5	48.8		mg/Kg		93	80 - 120	1	35
Molybdenum	ND		24.5	20.3		mg/Kg		83	80 - 120	1	35
Nickel	56	F1	24.5	79.7		mg/Kg		98	80 - 120	16	35
Lead	9.3		24.5	30.2		mg/Kg		86	80 - 120	2	35
Selenium	ND		49.0	40.6		mg/Kg		83	80 - 120	2	35
Antimony	1.0	J F1	49.0	13.4	F1	mg/Kg		25	80 - 120	6	35
Thallium	0.87	J	49.0	40.8		mg/Kg		82	80 - 120	2	35
Vanadium	32	F1	24.5	59.8		mg/Kg		112	80 - 120	4	35
Zinc	70		49.0	119		mg/Kg		99	80 - 120	4	35

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-521730/11-A
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 521730

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.040	0.0086	mg/Kg		09/02/21 09:00	09/02/21 12:56	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 320-521730/12-A
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 521730

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.169		mg/Kg		102	86 - 114		

Lab Sample ID: LCSD 320-521730/13-A
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 521730

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.167	0.160		mg/Kg		96	86 - 114	6	17

Lab Sample ID: 320-78145-1 MS
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: SB-1-1.5
Prep Type: Total/NA
Prep Batch: 521730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.089		0.164	0.257		mg/Kg		103	86 - 114		

Lab Sample ID: 320-78145-1 MSD
Matrix: Solid
Analysis Batch: 522186

Client Sample ID: SB-1-1.5
Prep Type: Total/NA
Prep Batch: 521730

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.089		0.175	0.266		mg/Kg		101	86 - 114	3	17

GC/MS VOA

Prep Batch: 521108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	5035	
320-78145-2	SB-1-2.5	Total/NA	Solid	5035	

Prep Batch: 521208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-6	SB-2-1.0	Total/NA	Solid	5035	
320-78145-7	SB-2-2.0	Total/NA	Solid	5035	
320-78145-10 - RA	SB-3-1.5	Total/NA	Solid	5035	
320-78145-10	SB-3-1.5	Total/NA	Solid	5035	
320-78145-11	SB-3-2.5	Total/NA	Solid	5035	
320-78145-15	SB-4-1	Total/NA	Solid	5035	
320-78145-20	SB-5-01	Total/NA	Solid	5035	
320-78145-25	SB-6-01	Total/NA	Solid	5035	
320-78145-25 - RA	SB-6-01	Total/NA	Solid	5035	
320-78145-26	SB-6-02	Total/NA	Solid	5035	
320-78145-30	SB-7-1	Total/NA	Solid	5035	
320-78145-31	SB-7-2	Total/NA	Solid	5035	

Analysis Batch: 521639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	8260B/CA_LUFT MS	521108
320-78145-2	SB-1-2.5	Total/NA	Solid	8260B/CA_LUFT MS	521108
320-78145-6	SB-2-1.0	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-7	SB-2-2.0	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-10	SB-3-1.5	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-11	SB-3-2.5	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-15	SB-4-1	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-20	SB-5-01	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-25	SB-6-01	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-26	SB-6-02	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-30	SB-7-1	Total/NA	Solid	8260B/CA_LUFT MS	521208
320-78145-31	SB-7-2	Total/NA	Solid	8260B/CA_LUFT MS	521208
MB 320-521639/12	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 320-521639/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 320-521639/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 521640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	8260B	521108
320-78145-6	SB-2-1.0	Total/NA	Solid	8260B	521208

GC/MS VOA (Continued)

Analysis Batch: 521640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-11	SB-3-2.5	Total/NA	Solid	8260B	521208
320-78145-15	SB-4-1	Total/NA	Solid	8260B	521208
320-78145-20	SB-5-01	Total/NA	Solid	8260B	521208
320-78145-26	SB-6-02	Total/NA	Solid	8260B	521208
320-78145-30	SB-7-1	Total/NA	Solid	8260B	521208
320-78145-31	SB-7-2	Total/NA	Solid	8260B	521208
MB 320-521640/12	Method Blank	Total/NA	Solid	8260B	
LCS 320-521640/9	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 320-521640/31	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 522017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-2	SB-1-2.5	Total/NA	Solid	8260B	521108
320-78145-7	SB-2-2.0	Total/NA	Solid	8260B	521208
320-78145-10 - RA	SB-3-1.5	Total/NA	Solid	8260B	521208
320-78145-25 - RA	SB-6-01	Total/NA	Solid	8260B	521208
MB 320-522017/7	Method Blank	Total/NA	Solid	8260B	
LCS 320-522017/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 320-522017/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 520594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	3550B	
320-78145-2	SB-1-2.5	Total/NA	Solid	3550B	
320-78145-6	SB-2-1.0	Total/NA	Solid	3550B	
320-78145-7	SB-2-2.0	Total/NA	Solid	3550B	
320-78145-10	SB-3-1.5	Total/NA	Solid	3550B	
320-78145-11	SB-3-2.5	Total/NA	Solid	3550B	
320-78145-15	SB-4-1	Total/NA	Solid	3550B	
320-78145-20	SB-5-01	Total/NA	Solid	3550B	
320-78145-25	SB-6-01	Total/NA	Solid	3550B	
320-78145-26	SB-6-02	Total/NA	Solid	3550B	
320-78145-30	SB-7-1	Total/NA	Solid	3550B	
320-78145-31	SB-7-2	Total/NA	Solid	3550B	
MB 320-520594/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 320-520594/2-A	Lab Control Sample	Total/NA	Solid	3550B	
320-78145-15 MS	SB-4-1	Total/NA	Solid	3550B	
320-78145-15 MSD	SB-4-1	Total/NA	Solid	3550B	

Analysis Batch: 521051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	8015B	520594
320-78145-2	SB-1-2.5	Total/NA	Solid	8015B	520594
320-78145-6	SB-2-1.0	Total/NA	Solid	8015B	520594
320-78145-7	SB-2-2.0	Total/NA	Solid	8015B	520594
320-78145-10	SB-3-1.5	Total/NA	Solid	8015B	520594
320-78145-11	SB-3-2.5	Total/NA	Solid	8015B	520594
320-78145-20	SB-5-01	Total/NA	Solid	8015B	520594
320-78145-25	SB-6-01	Total/NA	Solid	8015B	520594

GC Semi VOA (Continued)

Analysis Batch: 521051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-26	SB-6-02	Total/NA	Solid	8015B	520594
320-78145-30	SB-7-1	Total/NA	Solid	8015B	520594
320-78145-31	SB-7-2	Total/NA	Solid	8015B	520594
MB 320-520594/1-A	Method Blank	Total/NA	Solid	8015B	520594
LCS 320-520594/2-A	Lab Control Sample	Total/NA	Solid	8015B	520594

Analysis Batch: 521452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-15	SB-4-1	Total/NA	Solid	8015B	520594
320-78145-15 MS	SB-4-1	Total/NA	Solid	8015B	520594
320-78145-15 MSD	SB-4-1	Total/NA	Solid	8015B	520594

Metals

Prep Batch: 521017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	3050B	
320-78145-2	SB-1-2.5	Total/NA	Solid	3050B	
320-78145-6	SB-2-1.0	Total/NA	Solid	3050B	
320-78145-7	SB-2-2.0	Total/NA	Solid	3050B	
320-78145-10	SB-3-1.5	Total/NA	Solid	3050B	
320-78145-11	SB-3-2.5	Total/NA	Solid	3050B	
320-78145-15	SB-4-1	Total/NA	Solid	3050B	
320-78145-20	SB-5-01	Total/NA	Solid	3050B	
320-78145-25	SB-6-01	Total/NA	Solid	3050B	
320-78145-26	SB-6-02	Total/NA	Solid	3050B	
320-78145-30	SB-7-1	Total/NA	Solid	3050B	
320-78145-31	SB-7-2	Total/NA	Solid	3050B	
MB 320-521017/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-521017/2-A	Lab Control Sample	Total/NA	Solid	3050B	
320-78145-1 MS	SB-1-1.5	Total/NA	Solid	3050B	
320-78145-1 MSD	SB-1-1.5	Total/NA	Solid	3050B	

Analysis Batch: 521620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	6010B	521017
320-78145-2	SB-1-2.5	Total/NA	Solid	6010B	521017
320-78145-6	SB-2-1.0	Total/NA	Solid	6010B	521017
320-78145-7	SB-2-2.0	Total/NA	Solid	6010B	521017
320-78145-10	SB-3-1.5	Total/NA	Solid	6010B	521017
320-78145-11	SB-3-2.5	Total/NA	Solid	6010B	521017
320-78145-15	SB-4-1	Total/NA	Solid	6010B	521017
320-78145-20	SB-5-01	Total/NA	Solid	6010B	521017
320-78145-25	SB-6-01	Total/NA	Solid	6010B	521017
320-78145-26	SB-6-02	Total/NA	Solid	6010B	521017
320-78145-30	SB-7-1	Total/NA	Solid	6010B	521017
320-78145-31	SB-7-2	Total/NA	Solid	6010B	521017
MB 320-521017/1-A	Method Blank	Total/NA	Solid	6010B	521017
LCS 320-521017/2-A	Lab Control Sample	Total/NA	Solid	6010B	521017
320-78145-1 MS	SB-1-1.5	Total/NA	Solid	6010B	521017
320-78145-1 MSD	SB-1-1.5	Total/NA	Solid	6010B	521017

QC Association Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Metals

Prep Batch: 521730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	7471A	
320-78145-2	SB-1-2.5	Total/NA	Solid	7471A	
320-78145-6	SB-2-1.0	Total/NA	Solid	7471A	
320-78145-7	SB-2-2.0	Total/NA	Solid	7471A	
320-78145-10	SB-3-1.5	Total/NA	Solid	7471A	
320-78145-11	SB-3-2.5	Total/NA	Solid	7471A	
320-78145-15	SB-4-1	Total/NA	Solid	7471A	
320-78145-20	SB-5-01	Total/NA	Solid	7471A	
320-78145-25	SB-6-01	Total/NA	Solid	7471A	
320-78145-26	SB-6-02	Total/NA	Solid	7471A	
320-78145-30	SB-7-1	Total/NA	Solid	7471A	
320-78145-31	SB-7-2	Total/NA	Solid	7471A	
MB 320-521730/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-521730/12-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 320-521730/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
320-78145-1 MS	SB-1-1.5	Total/NA	Solid	7471A	
320-78145-1 MSD	SB-1-1.5	Total/NA	Solid	7471A	

Analysis Batch: 522186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	7471A	521730
320-78145-2	SB-1-2.5	Total/NA	Solid	7471A	521730
320-78145-6	SB-2-1.0	Total/NA	Solid	7471A	521730
320-78145-7	SB-2-2.0	Total/NA	Solid	7471A	521730
320-78145-10	SB-3-1.5	Total/NA	Solid	7471A	521730
320-78145-11	SB-3-2.5	Total/NA	Solid	7471A	521730
320-78145-15	SB-4-1	Total/NA	Solid	7471A	521730
320-78145-20	SB-5-01	Total/NA	Solid	7471A	521730
320-78145-25	SB-6-01	Total/NA	Solid	7471A	521730
320-78145-26	SB-6-02	Total/NA	Solid	7471A	521730
MB 320-521730/11-A	Method Blank	Total/NA	Solid	7471A	521730
LCS 320-521730/12-A	Lab Control Sample	Total/NA	Solid	7471A	521730
LCSD 320-521730/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	521730
320-78145-1 MS	SB-1-1.5	Total/NA	Solid	7471A	521730
320-78145-1 MSD	SB-1-1.5	Total/NA	Solid	7471A	521730

Analysis Batch: 522279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-30	SB-7-1	Total/NA	Solid	7471A	521730
320-78145-31	SB-7-2	Total/NA	Solid	7471A	521730

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-1-1.5

Lab Sample ID: 320-78145-1

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.499 g	5 mL	521108	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 12:55	SS	TAL SAC
Total/NA	Prep	5035			5.499 g	5 mL	521108	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 12:55	SS	TAL SAC
Total/NA	Prep	3550B			30.36 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/30/21 23:07	RCO	TAL SAC
Total/NA	Prep	3050B			1.00 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 12:44	GSH	TAL SAC
Total/NA	Prep	7471A			0.55 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 13:47	CF	TAL SAC

Client Sample ID: SB-1-2.5

Lab Sample ID: 320-78145-2

Date Collected: 08/26/21 13:12
Date Received: 08/27/21 09:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.639 g	5 mL	521108	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	522017	09/02/21 12:36	JRM	TAL SAC
Total/NA	Prep	5035			5.639 g	5 mL	521108	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 13:17	SS	TAL SAC
Total/NA	Prep	3550B			30.34 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/30/21 23:32	RCO	TAL SAC
Total/NA	Prep	3050B			1.01 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:05	GSH	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 13:58	CF	TAL SAC

Client Sample ID: SB-2-1.0

Lab Sample ID: 320-78145-6

Date Collected: 08/26/21 15:13
Date Received: 08/27/21 09:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.848 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 13:40	SS	TAL SAC
Total/NA	Prep	5035			3.848 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 13:40	SS	TAL SAC
Total/NA	Prep	3550B			30.57 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/30/21 23:56	RCO	TAL SAC
Total/NA	Prep	3050B			1.02 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:09	GSH	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:00	CF	TAL SAC

Client Sample ID: SB-2-2.0

Lab Sample ID: 320-78145-7

Date Collected: 08/26/21 15:13

Matrix: Solid

Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			0.17 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	522017	09/02/21 13:21	JRM	TAL SAC
Total/NA	Prep	5035			0.17 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 14:02	SS	TAL SAC
Total/NA	Prep	3550B			30.53 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 00:21	RCO	TAL SAC
Total/NA	Prep	3050B			1.05 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:13	GSH	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:02	CF	TAL SAC

Client Sample ID: SB-3-1.5

Lab Sample ID: 320-78145-10

Date Collected: 08/26/21 14:22

Matrix: Solid

Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		5.357 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	522017	09/02/21 13:43	JRM	TAL SAC
Total/NA	Prep	5035			5.357 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 14:24	SS	TAL SAC
Total/NA	Prep	3550B			30.41 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 00:45	RCO	TAL SAC
Total/NA	Prep	3050B			1.01 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:26	GSH	TAL SAC
Total/NA	Prep	7471A			0.63 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:03	CF	TAL SAC

Client Sample ID: SB-3-2.5

Lab Sample ID: 320-78145-11

Date Collected: 08/26/21 14:22

Matrix: Solid

Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.896 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 15:09	SS	TAL SAC
Total/NA	Prep	5035			4.896 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 15:09	SS	TAL SAC
Total/NA	Prep	3550B			30.26 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 01:10	RCO	TAL SAC
Total/NA	Prep	3050B			1.03 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:30	GSH	TAL SAC
Total/NA	Prep	7471A			0.62 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:05	CF	TAL SAC

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Client Sample ID: SB-4-1
Date Collected: 08/26/21 16:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.53 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 15:32	SS	TAL SAC
Total/NA	Prep	5035			5.53 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 15:32	SS	TAL SAC
Total/NA	Prep	3550B			30.36 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		10			521452	08/31/21 21:10	RCO	TAL SAC
Total/NA	Prep	3050B			1.04 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:34	GSH	TAL SAC
Total/NA	Prep	7471A			0.64 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:07	CF	TAL SAC

Client Sample ID: SB-5-01
Date Collected: 08/26/21 17:05
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.658 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 15:54	SS	TAL SAC
Total/NA	Prep	5035			4.658 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 15:54	SS	TAL SAC
Total/NA	Prep	3550B			30.98 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 02:48	RCO	TAL SAC
Total/NA	Prep	3050B			1.03 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:38	GSH	TAL SAC
Total/NA	Prep	7471A			0.64 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:09	CF	TAL SAC

Client Sample ID: SB-6-01
Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035	RA		3.829 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	522017	09/02/21 14:49	JRM	TAL SAC
Total/NA	Prep	5035			3.829 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 16:16	SS	TAL SAC
Total/NA	Prep	3550B			30.05 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 03:13	RCO	TAL SAC
Total/NA	Prep	3050B			1.02 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:42	GSH	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:10	CF	TAL SAC

Client Sample ID: SB-6-02
Date Collected: 08/26/21 17:36
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.021 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 16:39	SS	TAL SAC
Total/NA	Prep	5035			5.021 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 16:39	SS	TAL SAC
Total/NA	Prep	3550B			30.30 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 03:38	RCO	TAL SAC
Total/NA	Prep	3050B			1.05 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:47	GSH	TAL SAC
Total/NA	Prep	7471A			0.58 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522186	09/02/21 14:12	CF	TAL SAC

Client Sample ID: SB-7-1
Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.925 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 17:01	SS	TAL SAC
Total/NA	Prep	5035			4.925 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 17:01	SS	TAL SAC
Total/NA	Prep	3550B			30.58 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 04:02	RCO	TAL SAC
Total/NA	Prep	3050B			1.01 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:51	GSH	TAL SAC
Total/NA	Prep	7471A			0.58 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522279	09/02/21 16:06	CF	TAL SAC

Client Sample ID: SB-7-2
Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.959 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B		1	5 mL	5 mL	521640	09/01/21 17:24	SS	TAL SAC
Total/NA	Prep	5035			4.959 g	5 mL	521208	08/27/21 21:26	EFB	TAL SAC
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 mL	5 mL	521639	09/01/21 17:24	SS	TAL SAC
Total/NA	Prep	3550B			30.61 g	3 mL	520594	08/28/21 07:22	TL	TAL SAC
Total/NA	Analysis	8015B		1			521051	08/31/21 04:27	RCO	TAL SAC
Total/NA	Prep	3050B			1.02 g	100 mL	521017	08/30/21 14:07	JP	TAL SAC
Total/NA	Analysis	6010B		1			521620	08/31/21 13:55	GSH	TAL SAC
Total/NA	Prep	7471A			0.57 g	50 mL	521730	09/02/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			522279	09/02/21 16:08	CF	TAL SAC

Laboratory References:

EMLab P&K = EMLab P&K - South San Francisco, 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080, TEL (866)888-6653

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B	3550B	Solid	Motor Oil Range Organics [C28-C40]

Method Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAC
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	TAL SAC
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC
CARB435	CARB 435 Asbestos	EM P&K	EMLab P&K
3050B	Preparation, Metals	SW846	TAL SAC
3550B	Ultrasonic Extraction	SW846	TAL SAC
5035	Closed System Purge and Trap	SW846	TAL SAC
7471A	Preparation, Mercury	SW846	TAL SAC

Protocol References:

EM P&K = EMLab P&K, Faciltiy Standard Operating Procedure

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EMLab P&K = EMLab P&K - South San Francisco, 6000 Shoreline Court, Suite 205, South San Francisco, CA 94080, TEL (866)888-6653

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78145-1	SB-1-1.5	Solid	08/26/21 13:12	08/27/21 09:15
320-78145-2	SB-1-2.5	Solid	08/26/21 13:12	08/27/21 09:15
320-78145-6	SB-2-1.0	Solid	08/26/21 15:13	08/27/21 09:15
320-78145-7	SB-2-2.0	Solid	08/26/21 15:13	08/27/21 09:15
320-78145-10	SB-3-1.5	Solid	08/26/21 14:22	08/27/21 09:15
320-78145-11	SB-3-2.5	Solid	08/26/21 14:22	08/27/21 09:15
320-78145-15	SB-4-1	Solid	08/26/21 16:05	08/27/21 09:15
320-78145-20	SB-5-01	Solid	08/26/21 17:05	08/27/21 09:15
320-78145-25	SB-6-01	Solid	08/26/21 17:36	08/27/21 09:15
320-78145-26	SB-6-02	Solid	08/26/21 17:36	08/27/21 09:15
320-78145-30	SB-7-1	Solid	08/26/21 18:25	08/27/21 09:15
320-78145-31	SB-7-2	Solid	08/26/21 18:25	08/27/21 09:15

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Report for:

Micah Smith
TestAmerica-West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Regarding: Project: 320-78145-1; 651 Martin, Santa Clara
EML ID: 2721118

Approved by:

Murali R Putty

Technical Manager
Murali Putty

Dates of Analysis:
Asbestos-CARB 435 (400 pt ct): 09-03-2021

Service SOPs: Asbestos-CARB 435 (400 pt ct) (EM-AS-S-1265)
NVLAP Lab Code 200728-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K
6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-West Sacramento
C/O: Micah Smith
Re: 320-78145-1; 651 Martin, Santa Clara

Date of Sampling: 08-26-2021
Date of Receipt: 08-30-2021
Date of Report: 09-03-2021

ASBESTOS POINT COUNT REPORT: CARB METHOD 435

Location:	SB-1-1.5 (320-78145-1)		
Total Points Counted:	400		
Lab ID-Version‡:	13017909-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

Location:	SB-2-1.0 (320-78145-6)		
Total Points Counted:	400		
Lab ID-Version‡:	13017910-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

Location:	SB-4-1 (320-78145-15)		
Total Points Counted:	400		
Lab ID-Version‡:	13017911-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EMLab P&K
6000 Shoreline Ct, Ste 205, So. San Francisco, CA 94080
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-West Sacramento
C/O: Micah Smith
Re: 320-78145-1; 651 Martin, Santa Clara

Date of Sampling: 08-26-2021
Date of Receipt: 08-30-2021
Date of Report: 09-03-2021

ASBESTOS POINT COUNT REPORT: CARB METHOD 435

Location:	SB-6-01 (320-78145-25)		
Total Points Counted:	400		
Lab ID-Version‡:	13017912-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

Location:	SB-7-1 (320-78145-30)		
Total Points Counted:	400		
Lab ID-Version‡:	13017913-1		
Sample Layers	**Asbestos Type**	**Asbestos Points Counted**	**Asbestos Concentration (%)**
Brown Soil	-	-	ND
Layer Totals:		-	-

Comments: No asbestos was detected and no points were counted.

The analytical sensitivity is 1 asbestos point. The limit of detection is 1 asbestos point divided by the total number of points counted and multiplied by 100.

The results relate only to the items tested. Interpretation is left to the company and/or persons who conducted the field work. The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government.

All samples were received in acceptable condition unless otherwise noted. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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PO 170671 Revised 320-78145

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TPH: EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☒ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X										X		
SB-1-2.5		1312			X		X	X				X	X		NO PESTICIDES										
SB-1-3.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~		ARCHIVE										
SB-1-4.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-1-5.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-2-1.0		1513			X		X	X				X	X										X		
SB-2-2.0		1513			X		X	X				X	X		NO PESTICIDES										
SB-2-4.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~		ARCHIVE										
SB-2-5.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												

Project Info.

Project Name/#: 651 Martin
PO#:

Sample Receipt

# of Containers:
Head Space:
Temp:

Credit Card Y/N: If yes, please call with payment information ASAP

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: Signature Time / Printed Name Date / Company

2) Relinquished by: Signature Time / Printed Name Date / Company

320-78145 Chain of Custody

Company

1) Received by: Signature Time / Printed Name Date / Company

2) Received by: Signature Time / Printed Name Date / Company

3) Received by: Signature Time / Printed Name Date / Company

Revised 320-72148

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom. by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Cont.
SB-3-1.5	8/26/21	1422		Ice	X	X	X	X				X	X												
SB-3-2.5		1422			X		X	X				X	X		NO PESTICIDES										
SB-3-3.5		1422			X		X	X				X	X												
SB-3-4.5		1422			X		X	X				X	X		ARCHIVE										
SB-3-5.5		1422			X		X	X				X	X												
SB-4-01		1605			X		X	X				X	X										X		
SB-4-02		1605			X		X	X				X	X		ARCHIVE										
SB-4-03		1605			X		X	X				X	X												
SB-4-04		1605			X		X	X				X	X												
SB-4-05		1605			X		X	X				X	X												

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Remove ... 7843

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☑ Gas ☐ BTEX ☐ 6 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X												
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X											X	
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X	X	X	X				X	X												
SB-6-04		1736			X	X	X	X				X	X												
SB-6-05		1736			X	X	X	X				X	X												

ARCHIVE

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X										X		
SB-7-2		1825			X		X	X				X	X												
SB-7-3		1825			X		X	X				X	X												
SB-7-4		1825			X		X	X				X	X												
SB-7-5		1825			X		X	X				X	X												

NO PESTICIDES

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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PO 170671 Revised 320-78145

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Arbest 0.5 CARB 4/35	Number of Containers
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X										X	
SB-1-2.5		1312			X		X	X				X	X		NO PESTICIDES									
SB-1-3.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~		ARCHIVE									
SB-1-4.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~											
SB-1-5.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~											
SB-2-1.0		1513			X		X	X				X	X										X	
SB-2-2.0		1513			X		X	X				X	X		NO PESTICIDES									
SB-2-4.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~		ARCHIVE									
SB-2-5.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~											

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: Signature Time / Printed Name Date / Company

2) Relinquished by: Signature Time / Printed Name Date / Company

320-78145 Chain of Custody

Company

1) Received by: Signature Time / Printed Name Date / Company

2) Received by: Signature Time / Printed Name Date / Company

3) Received by: Signature Time / Printed Name Date / Company

Revised 7-26-72 14R

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat trx	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☒ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		
SB-3-1.5	8/26/21	1422		Ice	X	X	X	X				X	X										X		
SB-3-2.5		1422			X		X	X				X	X		NO PESTICIDES										
SB-3-3.5		1422			X		X	X				X	X												
SB-3-4.5		1422			X		X	X				X	X												
SB-3-5.5		1422			X		X	X				X	X												
SB-4-0.1		1605			X		X	X				X	X										X		
SB-4-0.2		1605			X		X	X				X	X												
SB-4-0.3		1605			X		X	X				X	X												
SB-4-0.4		1605			X		X	X				X	X												
SB-4-0.5		1605			X		X	X				X	X												

ARCHIVE

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Reference # 7849

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 6 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X		
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X										X		
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X	X	X	X				X	X												
SB-6-04		1736			X	X	X	X				X	X												
SB-6-05		1736			X	X	X	X				X	X												

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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Pleasanton Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X												
SB-7-2		1825			X		X	X				X	X										X		
SB-7-3		1825			X		X	X				X	X												
SB-7-4		1825			X		X	X				X	X												
SB-7-5		1825			X		X	X				X	X												

NO PESTICIDES

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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320-75148

Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat Mix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X									X	
SB-1-2.5		1312			X		X	X				X	X										
SB-1-3.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-4.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-5.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-1.0		1513			X		X	X				X	X									X	
SB-2-2.0		1513			X		X	X				X	X										
SB-2-4.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-5.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 5-3 4 8

If yes, please call with payment information ASAP

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27/21	Printed Name: Date:	Printed Name: Date:
Company: EMSS	Company:	Company:

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300 - 75147

Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord CA 94520
Email: glieberman@trccompanies.com
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat Mix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
SB-3-1.5	8/26/21	1422		Ice	X		X	X				X	X									X	
SB-3-2.5		1422			X		X	X				X	X										
SB-3-3.5		1422			X		X	X				X	X										
SB-3-4.5		1422			X		X	X				X	X										
SB-3-5.5		1422			X		X	X				X	X										
SB-4-1		1605			X		X	X				X	X									X	
SB-4-2		1605			X		X	X				X	X										
SB-4-3		1605			X		X	X				X	X										
SB-4-4		1605			X		X	X				X	X										
SB-4-5		1605			X		X	X				X	X										

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp: 5-3/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: KB	Signature:	Signature:
Time: 0915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date:	Date:	Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature:	Signature:	Signature:
Time: 915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date: 8/27/21	Date:	Date:
Company: EAS	Company:	Company:

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom. by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X		
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X										X		
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X	X	X	X				X	X												
SB-6-04		1736			X	X	X	X				X	X												
SB-6-05		1736			X	X	X	X				X	X												

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature]	Signature	Signature
Time: 8:00	Time	Time
Printed Name	Printed Name	Printed Name
Date: 8/27	Date	Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature: [signature]	Signature	Signature
Time: 915	Time	Time
Printed Name	Printed Name	Printed Name
Date: 8/27/21	Date	Date
Company: EMTS	Company	Company

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of C
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X												
SB-7-2		1825			X		X	X				X	X										X		
SB-7-3		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-4		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-5		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53 / 4-8

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company: FOAS	Company:	Company:

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-1-1.5 (320-78145-1)	8/26/21	13:12 Pacific		Solid			X	X	X	X	X	X								5	
SB-1-2.5 (320-78145-2)	8/26/21	13:12 Pacific		Solid			X		X	X	X	X								5	
SB-1-3.5 (320-78145-3)	8/26/21	13:12 Pacific		Solid									X	X	X	X	X			1	
SB-1-4.5 (320-78145-4)	8/26/21	13:12 Pacific		Solid									X	X	X	X	X			1	
SB-1-5.5 (320-78145-5)	8/26/21	13:12 Pacific		Solid									X	X	X	X	X			1	
SB-2-1.0 (320-78145-6)	8/26/21	15:13 Pacific		Solid			X	X	X	X	X	X								5	
SB-2-2.0 (320-78145-7)	8/26/21	15:13 Pacific		Solid			X		X	X	X	X								5	
SB-2-4.0 (320-78145-8)	8/26/21	15:13 Pacific		Solid									X	X	X	X	X			1	
SB-2-5.0 (320-78145-9)	8/26/21	15:13 Pacific		Solid									X	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 8/27/21 1615	Company ETAS	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.2 & 2.7 & 4.4		

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-3-1.5 (320-78145-10)	8/26/21	14:22 Pacific		Solid			X	X	X	X	X	X								5	
SB-3-2.5 (320-78145-11)	8/26/21	14:22 Pacific		Solid								X	X	X	X	X				5	
SB-3-3.5 (320-78145-12)	8/26/21	14:22 Pacific		Solid									X	X	X	X	X			1	
SB-3-4.5 (320-78145-13)	8/26/21	14:22 Pacific		Solid									X	X	X	X	X			1	
SB-3-5.5 (320-78145-14)	8/26/21	14:22 Pacific		Solid									X	X	X	X	X			1	
SB-4-1 (320-78145-15)	8/26/21	16:05 Pacific		Solid			X	X	X	X	X	X								5	
SB-4-2 (320-78145-16)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			5	
SB-4-3 (320-78145-17)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			1	
SB-4-4 (320-78145-18)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/27/21 1611	Company EMA SJ	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-4-5 (320-78145-19)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			1	
SB-5-01 (320-78145-20)	8/26/21	17:05 Pacific		Solid			X	X	X	X	X	X								5	
SB-5-02 (320-78145-21)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			5	
SB-5-03 (320-78145-22)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			1	
SB-5-04 (320-78145-23)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			1	
SB-5-05 (320-78145-24)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			1	
SB-6-01 (320-78145-25)	8/26/21	17:36 Pacific		Solid			X	X	X	X	X	X								5	
SB-6-02 (320-78145-26)	8/26/21	17:36 Pacific		Solid			X	X	X	X	X	X								5	
SB-6-03 (320-78145-27)	8/26/21	17:36 Pacific		Solid									X	X	X	X	X			1	

PUSH

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/27/21 1615	Company ETASAC	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-6-04 (320-78145-28)	8/26/21	17:36 Pacific		Solid									X	X	X	X	X			1	
SB-6-05 (320-78145-29)	8/26/21	17:36 Pacific		Solid									X	X	X	X	X			1	
SB-7-1 (320-78145-30)	8/26/21	18:25 Pacific		Solid			X	X	X	X	X	X								5	
SB-7-2 (320-78145-31)	8/26/21	18:25 Pacific		Solid			X		X	X	X	X								5	
SB-7-3 (320-78145-32)	8/26/21	18:25 Pacific		Solid									X	X	X	X	X			1	
SB-7-4 (320-78145-33)	8/26/21	18:25 Pacific		Solid									X	X	X	X	X			1	
SB-7-5 (320-78145-34)	8/26/21	18:25 Pacific		Solid									X	X	X	X	X			1	

RUSH

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/27/21 1615	Company FEMSI	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 - 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238637.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 1 of 1
Company: EMLab P&K		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 6000 Shoreline Court, Suite 205,	Due Date Requested: 9/1/2021			
City: South San Francisco	TAT Requested (days):			
State, Zip: CA, 94080				
Phone: 866-888-6653(Tel)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - Di Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (CARB 435)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SB-1-1.5 (320-78145-1)	8/26/21	13:12 Pacific		Solid			X	1	
SB-2-1.0 (320-78145-6)	8/26/21	15:13 Pacific		Solid			X	1	
SB-4-1 (320-78145-15)	8/26/21	16:05 Pacific		Solid			X	1	
SB-6-01 (320-78145-25)	8/26/21	17:36 Pacific		Solid			X	1	
SB-7-1 (320-78145-30)	8/26/21	18:25 Pacific		Solid			X	1	

002721118

PUSH!!

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:		
Relinquished by:	Date/Time: 8/27/21 1600	Company EMAS	Received by:	Date/Time: 8/30/21 915	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-1

Login Number: 78145
List Number: 1
Creator: Garcia, Hilario A

List Source: Eurofins TestAmerica, Sacramento

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

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-1

Login Number: 78145
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2 & 2.7 & 4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-78145-2
Client Project/Site: 651 Martin, Santa Clara

For:
TRC Environmental Corporation
2300 Clayton Road
Suite 610
Concord, California 94520

Attn: Gary Lieberman

Authorized for release by:
9/8/2021 4:08:18 PM

Micah Smith, Project Manager II
(916)374-4302
Micah.Smith@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 320-78145-2

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-78145-2

Comments
No additional comments.

Receipt
The samples were received on 8/27/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.8º C and 5.3º C.

GC Semi VOA
Method 8081A: The following samples were diluted due to the nature of the sample matrix: SB-1-1.5 (320-78145-1), SB-2-1.0 (320-78145-6), SB-3-1.5 (320-78145-10), SB-4-1 (320-78145-15), SB-5-01 (320-78145-20), SB-6-01 (320-78145-25), SB-6-02 (320-78145-26) and SB-7-1 (320-78145-30). Elevated reporting limits (RLs) are provided.

Method 8081A: Surrogate recovery for the following samples was outside control limits: SB-1-1.5 (320-78145-1), SB-2-1.0 (320-78145-6), SB-3-1.5 (320-78145-10), SB-5-01 (320-78145-20), SB-6-01 (320-78145-25) and SB-7-1 (320-78145-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8081A: The continuing calibration verification (CCV) associated with batch 320-522922 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8081A: The continuing calibration verification (CCV) associated with batch 320-521904 recovered above the upper control limit for Endosulfan I. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8081A: The continuing calibration verification (CCV) associated with batch 320-521904 recovered above the upper control limit for Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

Client Sample ID: SB-1-1.5 — Lab Sample ID: 320-78145-1

No Detections.

Client Sample ID: SB-2-1.0 — Lab Sample ID: 320-78145-6

No Detections.

Client Sample ID: SB-3-1.5 — Lab Sample ID: 320-78145-10

No Detections.

Client Sample ID: SB-4-1 — Lab Sample ID: 320-78145-15

No Detections.

Client Sample ID: SB-5-01 — Lab Sample ID: 320-78145-20

No Detections.

Client Sample ID: SB-6-01 — Lab Sample ID: 320-78145-25

No Detections.

Client Sample ID: SB-6-02 — Lab Sample ID: 320-78145-26

No Detections.

Client Sample ID: SB-7-1 — Lab Sample ID: 320-78145-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.0022	J	0.0084	0.0010	mg/Kg	5		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

Client Sample ID: SB-1-1.5

Lab Sample ID: 320-78145-1
Date Collected: 08/26/21 13:12
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0084	0.00069	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
alpha-BHC	ND		0.0084	0.00079	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
beta-BHC	ND		0.0084	0.0011	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
cis-Chlordane	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
4,4'-DDD	ND		0.0084	0.0011	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
4,4'-DDE	ND		0.0084	0.0010	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
4,4'-DDT	ND		0.0084	0.0012	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
delta-BHC	ND		0.0084	0.0017	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Dieldrin	ND		0.0084	0.00099	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Endosulfan I	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Endosulfan II	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Endosulfan sulfate	ND		0.0084	0.0017	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Endrin	ND		0.0084	0.00099	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Endrin aldehyde	ND		0.0084	0.0028	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Endrin ketone	ND		0.0084	0.0013	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
gamma-BHC (Lindane)	ND		0.0084	0.00069	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Heptachlor	ND		0.0084	0.00074	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Heptachlor epoxide	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Methoxychlor	ND		0.017	0.0028	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
Toxaphene	ND		0.33	0.11	mg/Kg		08/30/21 09:41	09/07/21 15:58	5
trans-Chlordane	ND		0.0084	0.0030	mg/Kg		08/30/21 09:41	09/07/21 15:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*49*		*46 - 109*	*08/30/21 09:41*	*09/07/21 15:58*	*5*
DCB Decachlorobiphenyl	*78*		*46 - 109*	*08/30/21 09:41*	*09/07/21 15:58*	*5*
Tetrachloro-m-xylene	*148*	*S1+*	*47 - 107*	*08/30/21 09:41*	*09/07/21 15:58*	*5*
Tetrachloro-m-xylene	*86*		*47 - 107*	*08/30/21 09:41*	*09/07/21 15:58*	*5*

Client Sample ID: SB-2-1.0

Lab Sample ID: 320-78145-6
Date Collected: 08/26/21 15:13
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0082	0.00067	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
alpha-BHC	ND		0.0082	0.00077	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
beta-BHC	ND		0.0082	0.0011	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
cis-Chlordane	ND		0.0082	0.00086	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
4,4'-DDD	ND		0.0082	0.0011	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
4,4'-DDE	ND		0.0082	0.0010	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
4,4'-DDT	ND		0.0082	0.0012	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
delta-BHC	ND		0.0082	0.0017	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Dieldrin	ND		0.0082	0.00096	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Endosulfan I	ND		0.0082	0.00086	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Endosulfan II	ND		0.0082	0.00086	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Endosulfan sulfate	ND		0.0082	0.0017	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Endrin	ND		0.0082	0.00096	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Endrin aldehyde	ND		0.0082	0.0027	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Endrin ketone	ND		0.0082	0.0013	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
gamma-BHC (Lindane)	ND		0.0082	0.00067	mg/Kg		08/30/21 09:41	09/07/21 16:19	5

Client Sample ID: SB-2-1.0

Lab Sample ID: 320-78145-6

Date Collected: 08/26/21 15:13
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.0082	0.00072	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Heptachlor epoxide	ND		0.0082	0.00086	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Methoxychlor	ND		0.016	0.0027	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
Toxaphene	ND		0.32	0.11	mg/Kg		08/30/21 09:41	09/07/21 16:19	5
trans-Chlordane	ND		0.0082	0.0029	mg/Kg		08/30/21 09:41	09/07/21 16:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*533*	*S1+*	*46 - 109*	*08/30/21 09:41*	*09/07/21 16:19*	*5*
DCB Decachlorobiphenyl	*654*	*S1+*	*46 - 109*	*08/30/21 09:41*	*09/07/21 16:19*	*5*
Tetrachloro-m-xylene	*208*	*S1+*	*47 - 107*	*08/30/21 09:41*	*09/07/21 16:19*	*5*
Tetrachloro-m-xylene	*93*		*47 - 107*	*08/30/21 09:41*	*09/07/21 16:19*	*5*

Client Sample ID: SB-3-1.5

Lab Sample ID: 320-78145-10

Date Collected: 08/26/21 14:22
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0082	0.00067	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
alpha-BHC	ND		0.0082	0.00077	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
beta-BHC	ND		0.0082	0.0011	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
cis-Chlordane	ND		0.0082	0.00086	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
4,4'-DDD	ND		0.0082	0.0011	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
4,4'-DDE	ND		0.0082	0.0010	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
4,4'-DDT	ND		0.0082	0.0012	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
delta-BHC	ND		0.0082	0.0017	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Dieldrin	ND		0.0082	0.00096	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Endosulfan I	ND		0.0082	0.00086	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Endosulfan II	ND		0.0082	0.00086	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Endosulfan sulfate	ND		0.0082	0.0017	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Endrin	ND		0.0082	0.00096	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Endrin aldehyde	ND		0.0082	0.0027	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Endrin ketone	ND		0.0082	0.0013	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
gamma-BHC (Lindane)	ND		0.0082	0.00067	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Heptachlor	ND		0.0082	0.00072	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Heptachlor epoxide	ND		0.0082	0.00086	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Methoxychlor	ND		0.016	0.0027	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
Toxaphene	ND		0.32	0.11	mg/Kg		08/30/21 09:41	09/07/21 16:38	5
trans-Chlordane	ND		0.0082	0.0029	mg/Kg		08/30/21 09:41	09/07/21 16:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*46 - 109*	*08/30/21 09:41*	*09/07/21 16:38*	*5*
DCB Decachlorobiphenyl	*82*		*46 - 109*	*08/30/21 09:41*	*09/07/21 16:38*	*5*
Tetrachloro-m-xylene	*185*	*S1+*	*47 - 107*	*08/30/21 09:41*	*09/07/21 16:38*	*5*
Tetrachloro-m-xylene	*86*		*47 - 107*	*08/30/21 09:41*	*09/07/21 16:38*	*5*

Client Sample ID: SB-4-1

Lab Sample ID: 320-78145-15

Date Collected: 08/26/21 16:05
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.017	0.0014	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
alpha-BHC	ND		0.017	0.0016	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
beta-BHC	ND		0.017	0.0021	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
cis-Chlordane	ND		0.017	0.0017	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
4,4'-DDD	ND		0.017	0.0022	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
4,4'-DDE	ND		0.017	0.0020	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
4,4'-DDT	ND		0.017	0.0024	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
delta-BHC	ND		0.017	0.0034	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Dieldrin	ND		0.017	0.0019	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Endosulfan I	ND		0.017	0.0017	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Endosulfan II	ND		0.017	0.0017	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Endosulfan sulfate	ND		0.017	0.0034	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Endrin	ND		0.017	0.0019	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Endrin aldehyde	ND		0.017	0.0055	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Endrin ketone	ND		0.017	0.0026	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
gamma-BHC (Lindane)	ND		0.017	0.0014	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Heptachlor	ND		0.017	0.0015	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Heptachlor epoxide	ND		0.017	0.0017	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Methoxychlor	ND		0.033	0.0054	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
Toxaphene	ND		0.65	0.22	mg/Kg		08/30/21 09:41	09/07/21 16:57	10
trans-Chlordane	ND		0.017	0.0058	mg/Kg		08/30/21 09:41	09/07/21 16:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*46 - 109*	*08/30/21 09:41*	*09/07/21 16:57*	*10*
DCB Decachlorobiphenyl	*132*	*S1+*	*46 - 109*	*08/30/21 09:41*	*09/07/21 16:57*	*10*
Tetrachloro-m-xylene	*98*		*47 - 107*	*08/30/21 09:41*	*09/07/21 16:57*	*10*
Tetrachloro-m-xylene	*125*	*S1+*	*47 - 107*	*08/30/21 09:41*	*09/07/21 16:57*	*10*

Client Sample ID: SB-5-01

Lab Sample ID: 320-78145-20

Date Collected: 08/26/21 17:05
Date Received: 08/27/21 09:15

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0083	0.00068	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
alpha-BHC	ND		0.0083	0.00078	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
beta-BHC	ND		0.0083	0.0011	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
cis-Chlordane	ND		0.0083	0.00087	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
4,4'-DDD	ND		0.0083	0.0011	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
4,4'-DDE	ND		0.0083	0.0010	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
4,4'-DDT	ND		0.0083	0.0012	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
delta-BHC	ND		0.0083	0.0017	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Dieldrin	ND		0.0083	0.00097	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Endosulfan I	ND		0.0083	0.00087	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Endosulfan II	ND		0.0083	0.00087	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Endosulfan sulfate	ND		0.0083	0.0017	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Endrin	ND		0.0083	0.00097	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Endrin aldehyde	ND		0.0083	0.0028	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Endrin ketone	ND		0.0083	0.0013	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
gamma-BHC (Lindane)	ND		0.0083	0.00068	mg/Kg		08/30/21 09:41	09/07/21 17:16	5

Client Sample ID: SB-5-01

Lab Sample ID: 320-78145-20

Date Collected: 08/26/21 17:05
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.0083	0.00073	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Heptachlor epoxide	ND		0.0083	0.00087	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Methoxychlor	ND		0.017	0.0027	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
Toxaphene	ND		0.33	0.11	mg/Kg		08/30/21 09:41	09/07/21 17:16	5
trans-Chlordane	ND		0.0083	0.0029	mg/Kg		08/30/21 09:41	09/07/21 17:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*46 - 109*	*08/30/21 09:41*	*09/07/21 17:16*	*5*
DCB Decachlorobiphenyl	*95*		*46 - 109*	*08/30/21 09:41*	*09/07/21 17:16*	*5*
Tetrachloro-m-xylene	*158*	*S1+*	*47 - 107*	*08/30/21 09:41*	*09/07/21 17:16*	*5*
Tetrachloro-m-xylene	*83*		*47 - 107*	*08/30/21 09:41*	*09/07/21 17:16*	*5*

Client Sample ID: SB-6-01

Lab Sample ID: 320-78145-25

Date Collected: 08/26/21 17:36
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0082	0.00068	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
alpha-BHC	ND		0.0082	0.00077	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
beta-BHC	ND		0.0082	0.0011	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
cis-Chlordane	ND		0.0082	0.00087	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
4,4'-DDD	ND		0.0082	0.0011	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
4,4'-DDE	ND		0.0082	0.0010	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
4,4'-DDT	ND		0.0082	0.0012	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
delta-BHC	ND		0.0082	0.0017	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Dieldrin	ND		0.0082	0.00097	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Endosulfan I	ND		0.0082	0.00087	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Endosulfan II	ND		0.0082	0.00087	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Endosulfan sulfate	ND		0.0082	0.0017	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Endrin	ND		0.0082	0.00097	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Endrin aldehyde	ND		0.0082	0.0028	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Endrin ketone	ND		0.0082	0.0013	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
gamma-BHC (Lindane)	ND		0.0082	0.00068	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Heptachlor	ND		0.0082	0.00073	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Heptachlor epoxide	ND		0.0082	0.00087	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Methoxychlor	ND		0.016	0.0027	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
Toxaphene	ND		0.32	0.11	mg/Kg		08/30/21 09:41	09/07/21 17:35	5
trans-Chlordane	ND		0.0082	0.0029	mg/Kg		08/30/21 09:41	09/07/21 17:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*	*S1-*	*46 - 109*	*08/30/21 09:41*	*09/07/21 17:35*	*5*
DCB Decachlorobiphenyl	*63*		*46 - 109*	*08/30/21 09:41*	*09/07/21 17:35*	*5*
Tetrachloro-m-xylene	*26*	*S1-*	*47 - 107*	*08/30/21 09:41*	*09/07/21 17:35*	*5*
Tetrachloro-m-xylene	*33*	*S1-*	*47 - 107*	*08/30/21 09:41*	*09/07/21 17:35*	*5*

Client Sample ID: SB-6-02

Lab Sample ID: 320-78145-26

Date Collected: 08/26/21 17:36
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0084	0.00069	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
alpha-BHC	ND		0.0084	0.00079	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
beta-BHC	ND		0.0084	0.0011	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
cis-Chlordane	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
4,4'-DDD	ND		0.0084	0.0011	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
4,4'-DDE	ND		0.0084	0.0010	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
4,4'-DDT	ND		0.0084	0.0012	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
delta-BHC	ND		0.0084	0.0017	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Dieldrin	ND		0.0084	0.00099	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Endosulfan I	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Endosulfan II	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Endosulfan sulfate	ND		0.0084	0.0017	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Endrin	ND		0.0084	0.00099	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Endrin aldehyde	ND		0.0084	0.0028	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Endrin ketone	ND		0.0084	0.0013	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
gamma-BHC (Lindane)	ND		0.0084	0.00069	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Heptachlor	ND		0.0084	0.00074	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Heptachlor epoxide	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Methoxychlor	ND	p	0.017	0.0028	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
Toxaphene	ND		0.33	0.11	mg/Kg		08/30/21 09:41	09/07/21 17:54	5
trans-Chlordane	ND		0.0084	0.0030	mg/Kg		08/30/21 09:41	09/07/21 17:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*46 - 109*	*08/30/21 09:41*	*09/07/21 17:54*	*5*
DCB Decachlorobiphenyl	*97*		*46 - 109*	*08/30/21 09:41*	*09/07/21 17:54*	*5*
Tetrachloro-m-xylene	*141*	*S1+*	*47 - 107*	*08/30/21 09:41*	*09/07/21 17:54*	*5*
Tetrachloro-m-xylene	*140*	*S1+*	*47 - 107*	*08/30/21 09:41*	*09/07/21 17:54*	*5*

Client Sample ID: SB-7-1

Lab Sample ID: 320-78145-30

Date Collected: 08/26/21 18:25
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0084	0.00069	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
alpha-BHC	ND		0.0084	0.00079	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
beta-BHC	ND		0.0084	0.0011	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
cis-Chlordane	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
4,4'-DDD	ND		0.0084	0.0011	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
4,4'-DDE	**0.0022**	**J**	0.0084	0.0010	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
4,4'-DDT	ND		0.0084	0.0012	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
delta-BHC	ND		0.0084	0.0017	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Dieldrin	ND		0.0084	0.00099	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Endosulfan I	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Endosulfan II	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Endosulfan sulfate	ND		0.0084	0.0017	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Endrin	ND		0.0084	0.00099	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Endrin aldehyde	ND		0.0084	0.0028	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Endrin ketone	ND		0.0084	0.0013	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
gamma-BHC (Lindane)	ND		0.0084	0.00069	mg/Kg		08/30/21 09:41	09/07/21 18:13	5

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

Client Sample ID: SB-7-1

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-30

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.0084	0.00074	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Heptachlor epoxide	ND		0.0084	0.00089	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Methoxychlor	ND		0.017	0.0028	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
Toxaphene	ND		0.33	0.11	mg/Kg		08/30/21 09:41	09/07/21 18:13	5
trans-Chlordane	ND		0.0084	0.0030	mg/Kg		08/30/21 09:41	09/07/21 18:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*46 - 109*	*08/30/21 09:41*	*09/07/21 18:13*	*5*
DCB Decachlorobiphenyl	*117*	*S1+*	*46 - 109*	*08/30/21 09:41*	*09/07/21 18:13*	*5*
Tetrachloro-m-xylene	*88*		*47 - 107*	*08/30/21 09:41*	*09/07/21 18:13*	*5*
Tetrachloro-m-xylene	*78*		*47 - 107*	*08/30/21 09:41*	*09/07/21 18:13*	*5*

Surrogate Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

Method: 8081A - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	**Client Sample ID**	**(46-109)**	**(46-109)**	**(47-107)**	**(47-107)**
320-78145-1	SB-1-1.5	49	78	148 S1+	86
320-78145-6	SB-2-1.0	533 S1+	654 S1+	208 S1+	93
320-78145-10	SB-3-1.5	59	82	185 S1+	86
320-78145-15	SB-4-1	83	132 S1+	98	125 S1+
320-78145-20	SB-5-01	46	95	158 S1+	83
320-78145-25	SB-6-01	44 S1-	63	26 S1-	33 S1-
320-78145-26	SB-6-02	51	97	141 S1+	140 S1+
320-78145-30	SB-7-1	73	117 S1+	88	78
LCS 320-520909/2-A	Lab Control Sample		66		60
LCS 320-520909/3-A	Lab Control Sample		68		65
MB 320-520909/1-A	Method Blank	59	62	66	58

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 320-520909/1-A
Matrix: Solid
Analysis Batch: 521904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 520909

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.0017	0.00014	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
alpha-BHC	ND		0.0017	0.00016	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
beta-BHC	ND		0.0017	0.00022	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
cis-Chlordane	ND		0.0017	0.00018	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
4,4'-DDD	ND		0.0017	0.00023	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
4,4'-DDE	ND		0.0017	0.00021	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
4,4'-DDT	ND		0.0017	0.00025	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
delta-BHC	ND		0.0017	0.00035	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Dieldrin	ND		0.0017	0.00020	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Endosulfan I	ND		0.0017	0.00018	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Endosulfan II	ND		0.0017	0.00018	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Endosulfan sulfate	ND		0.0017	0.00035	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Endrin	ND		0.0017	0.00020	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Endrin aldehyde	ND		0.0017	0.00057	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Endrin ketone	ND		0.0017	0.00027	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
gamma-BHC (Lindane)	ND		0.0017	0.00014	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Heptachlor	ND		0.0017	0.00015	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Heptachlor epoxide	ND		0.0017	0.00018	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Methoxychlor	ND		0.0034	0.00056	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
Toxaphene	ND		0.067	0.022	mg/Kg		08/30/21 09:41	09/01/21 20:00	1
trans-Chlordane	ND		0.0017	0.00060	mg/Kg		08/30/21 09:41	09/01/21 20:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*46 - 109*	*08/30/21 09:41*	*09/01/21 20:00*	*1*
DCB Decachlorobiphenyl	*62*		*46 - 109*	*08/30/21 09:41*	*09/01/21 20:00*	*1*
Tetrachloro-m-xylene	*66*		*47 - 107*	*08/30/21 09:41*	*09/01/21 20:00*	*1*
Tetrachloro-m-xylene	*58*		*47 - 107*	*08/30/21 09:41*	*09/01/21 20:00*	*1*

Lab Sample ID: LCS 320-520909/2-A
Matrix: Solid
Analysis Batch: 521904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.0167	0.0115		mg/Kg		69	55 - 109
alpha-BHC	0.0167	0.0116		mg/Kg		70	54 - 111
beta-BHC	0.0167	0.0113		mg/Kg		68	53 - 115
cis-Chlordane	0.0167	0.0117		mg/Kg		70	54 - 113
4,4'-DDD	0.0167	0.0130		mg/Kg		78	53 - 117
4,4'-DDE	0.0167	0.0118		mg/Kg		71	58 - 115
4,4'-DDT	0.0167	0.0126		mg/Kg		75	53 - 128
delta-BHC	0.0167	0.0112		mg/Kg		67	39 - 124
Dieldrin	0.0167	0.0120		mg/Kg		72	54 - 117
Endosulfan I	0.0167	0.00989		mg/Kg		59	42 - 118
Endosulfan II	0.0167	0.0112		mg/Kg		67	48 - 118
Endosulfan sulfate	0.0167	0.0123		mg/Kg		74	51 - 113
Endrin	0.0167	0.0125		mg/Kg		75	58 - 115
Endrin aldehyde	0.0167	0.0111		mg/Kg		67	40 - 100
Endrin ketone	0.0167	0.0122		mg/Kg		73	51 - 118

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 320-520909/2-A
Matrix: Solid
Analysis Batch: 521904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-BHC (Lindane)	0.0167	0.0118		mg/Kg		71	54 - 112
Heptachlor	0.0167	0.0116		mg/Kg		70	50 - 118
Heptachlor epoxide	0.0167	0.0114		mg/Kg		68	56 - 113
Methoxychlor	0.0167	0.0117		mg/Kg		70	52 - 123
trans-Chlordane	0.0167	0.0115		mg/Kg		69	55 - 114

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*66*		*46 - 109*
Tetrachloro-m-xylene	*60*		*47 - 107*

Lab Sample ID: LCS 320-520909/3-A
Matrix: Solid
Analysis Batch: 521904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	0.167	0.125	p	mg/Kg		75	43 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*46 - 109*
Tetrachloro-m-xylene	*65*		*47 - 107*

QC Association Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

GC Semi VOA

Prep Batch: 520909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	3546	
320-78145-6	SB-2-1.0	Total/NA	Solid	3546	
320-78145-10	SB-3-1.5	Total/NA	Solid	3546	
320-78145-15	SB-4-1	Total/NA	Solid	3546	
320-78145-20	SB-5-01	Total/NA	Solid	3546	
320-78145-25	SB-6-01	Total/NA	Solid	3546	
320-78145-26	SB-6-02	Total/NA	Solid	3546	
320-78145-30	SB-7-1	Total/NA	Solid	3546	
MB 320-520909/1-A	Method Blank	Total/NA	Solid	3546	
LCS 320-520909/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 320-520909/3-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 521904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-520909/1-A	Method Blank	Total/NA	Solid	8081A	520909
LCS 320-520909/2-A	Lab Control Sample	Total/NA	Solid	8081A	520909
LCS 320-520909/3-A	Lab Control Sample	Total/NA	Solid	8081A	520909

Analysis Batch: 522922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	Total/NA	Solid	8081A	520909
320-78145-6	SB-2-1.0	Total/NA	Solid	8081A	520909
320-78145-10	SB-3-1.5	Total/NA	Solid	8081A	520909
320-78145-15	SB-4-1	Total/NA	Solid	8081A	520909
320-78145-20	SB-5-01	Total/NA	Solid	8081A	520909
320-78145-25	SB-6-01	Total/NA	Solid	8081A	520909
320-78145-26	SB-6-02	Total/NA	Solid	8081A	520909
320-78145-30	SB-7-1	Total/NA	Solid	8081A	520909

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

Client Sample ID: SB-1-1.5
Lab Sample ID: 320-78145-1
Date Collected: 08/26/21 13:12
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.19 g	5 mL	520909	08/30/21 09:41	SJ	TAL SAC
Total/NA	Analysis	8081A		5			522922	09/07/21 15:58	K1D	TAL SAC

Client Sample ID: SB-2-1.0
Lab Sample ID: 320-78145-6
Date Collected: 08/26/21 15:13
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.64 g	5 mL	520909	08/30/21 09:41	SJ	TAL SAC
Total/NA	Analysis	8081A		5			522922	09/07/21 16:19	K1D	TAL SAC

Client Sample ID: SB-3-1.5
Lab Sample ID: 320-78145-10
Date Collected: 08/26/21 14:22
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.61 g	5 mL	520909	08/30/21 09:41	SJ	TAL SAC
Total/NA	Analysis	8081A		5			522922	09/07/21 16:38	K1D	TAL SAC

Client Sample ID: SB-4-1
Lab Sample ID: 320-78145-15
Date Collected: 08/26/21 16:05
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.45 g	5 mL	520909	08/30/21 09:41	SJ	TAL SAC
Total/NA	Analysis	8081A		10			522922	09/07/21 16:57	K1D	TAL SAC

Client Sample ID: SB-5-01
Lab Sample ID: 320-78145-20
Date Collected: 08/26/21 17:05
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.44 g	5 mL	520909	08/30/21 09:41	SJ	TAL SAC
Total/NA	Analysis	8081A		5			522922	09/07/21 17:16	K1D	TAL SAC

Client Sample ID: SB-6-01
Lab Sample ID: 320-78145-25
Date Collected: 08/26/21 17:36
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.49 g	5 mL	520909	08/30/21 09:41	SJ	TAL SAC
Total/NA	Analysis	8081A		5			522922	09/07/21 17:35	K1D	TAL SAC

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

Client Sample ID: SB-6-02

Lab Sample ID: 320-78145-26

Date Collected: 08/26/21 17:36
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	5 mL	520909	08/30/21 09:41	SJ	TAL SAC
Total/NA	Analysis	8081A		5			522922	09/07/21 17:54	K1D	TAL SAC

Client Sample ID: SB-7-1

Lab Sample ID: 320-78145-30

Date Collected: 08/26/21 18:25
Matrix: Solid
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.21 g	5 mL	520909	08/30/21 09:41	SJ	TAL SAC
Total/NA	Analysis	8081A		5			522922	09/07/21 18:13	K1D	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

Method Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL SAC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78145-1	SB-1-1.5	Solid	08/26/21 13:12	08/27/21 09:15
320-78145-6	SB-2-1.0	Solid	08/26/21 15:13	08/27/21 09:15
320-78145-10	SB-3-1.5	Solid	08/26/21 14:22	08/27/21 09:15
320-78145-15	SB-4-1	Solid	08/26/21 16:05	08/27/21 09:15
320-78145-20	SB-5-01	Solid	08/26/21 17:05	08/27/21 09:15
320-78145-25	SB-6-01	Solid	08/26/21 17:36	08/27/21 09:15
320-78145-26	SB-6-02	Solid	08/26/21 17:36	08/27/21 09:15
320-78145-30	SB-7-1	Solid	08/26/21 18:25	08/27/21 09:15

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PO 170671 Revised 320-78145

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TPH: EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☒ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X										X		
SB-1-2.5		1312			X		X	X				X	X		NO PESTICIDES										
SB-1-3.5		1312			X		X	X				X	X												
SB-1-4.5		1312			X		X	X				X	X		ARCHIVE										
SB-1-5.5		1312			X		X	X				X	X												
SB-2-1.0		1513			X		X	X				X	X										X		
SB-2-2.0		1513			X		X	X				X	X		NO PESTICIDES										
SB-2-4.0		1513			X		X	X				X	X		ARCHIVE										
SB-2-5.0		1513			X		X	X				X	X												

Project Info.

Project Name/#: 651 Martin

PO#:

Sample Receipt

# of Containers:

Head Space:

Temp:

Credit Card Y/N: If yes, please call with payment information ASAP

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: Signature Time / Printed Name Date / Company

2) Relinquished by: Signature Time / Printed Name Date / Company

Company

320-78145 Chain of Custody

1) Received by: Signature Time / Printed Name Date / Company

2) Received by: Signature Time / Printed Name Date / Company

3) Received by: Signature Time / Printed Name Date / Company

Revised 320-72148

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom. by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Cont.
SB-3-1.5	8/26/21	1422		Ice	X	X	X	X				X	X												
SB-3-2.5		1422			X		X	X				X	X		NO PESTICIDES										
SB-3-3.5		1422			X		X	X				X	X												
SB-3-4.5		1422			X		X	X				X	X		ARCHIVE										
SB-3-5.5		1422			X		X	X				X	X												
SB-4-01		1605			X		X	X				X	X										X		
SB-4-02		1605			X		X	X				X	X		ARCHIVE										
SB-4-03		1605			X		X	X				X	X												
SB-4-04		1605			X		X	X				X	X												
SB-4-05		1605			X		X	X				X	X												

Project Info.

Project Name/#: 651 Morton
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Remove ... 7843

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 6 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X												
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X											X	
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X	X	X	X				X	X												
SB-6-04		1736			X	X	X	X				X	X												
SB-6-05		1736			X	X	X	X				X	X												

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X										X		
SB-7-2		1825			X		X	X				X	X												
SB-7-3		1825			X		X	X				X	X												
SB-7-4		1825			X		X	X				X	X												
SB-7-5		1825			X		X	X				X	X												

NO PESTICIDES

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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PO 170671 Revised 320-78145

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Arbest 0.5 CARB 435	Number of Containers
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X										X	
SB-1-2.5		1312			X		X	X				X	X		NO PESTICIDES									
SB-1-3.5		1312			X		X	X				X	X											
SB-1-4.5		1312			X		X	X				X	X		ARCHIVE									
SB-1-5.5		1312			X		X	X				X	X											
SB-2-1.0		1513			X		X	X				X	X										X	
SB-2-2.0		1513			X		X	X				X	X		NO PESTICIDES									
SB-2-4.0		1513			X		X	X				X	X		ARCHIVE									
SB-2-5.0		1513			X		X	X				X	X											

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: Signature Time / Printed Name Date / Company

2) Relinquished by: Signature Time / Printed Name Date / Company

320-78145 Chain of Custody

Company

1) Received by: Signature Time / Printed Name Date / Company

2) Received by: Signature Time / Printed Name Date / Company

3) Received by: Signature Time / Printed Name Date / Company

Revised 720-72148

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat trx	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		
SB-3-1.5	8/26/21	1422		Ice	X	X	X	X				X	X										X		
SB-3-2.5		1422			X		X	X				X	X		NO PESTICIDES										
SB-3-3.5		1422			X		X	X				X	X												
SB-3-4.5		1422			X		X	X				X	X												
SB-3-5.5		1422			X		X	X				X	X												
SB-4-0.1		1605			X		X	X				X	X										X		
SB-4-0.2		1605			X		X	X				X	X												
SB-4-0.3		1605			X		X	X				X	X												
SB-4-0.4		1605			X		X	X				X	X												
SB-4-0.5		1605			X		X	X				X	X												

ARCHIVE

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Reference # 7843

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 6 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X		
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X										X		
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X		X	X				X	X												
SB-6-04		1736			X		X	X				X	X												
SB-6-05		1736			X		X	X				X	X												

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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Pleasanton Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X												
SB-7-2		1825			X		X	X				X	X										X		
SB-7-3		1825			X		X	X				X	X												
SB-7-4		1825			X		X	X				X	X												
SB-7-5		1825			X		X	X				X	X												

NO PESTICIDES

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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320-75148

Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X									X	
SB-1-2.5		1312			X		X	X				X	X										
SB-1-3.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-4.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-5.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-1.0		1513			X		X	X				X	X									X	
SB-2-2.0		1513			X		X	X				X	X										
SB-2-4.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-5.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp: 5-3 4 8

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27/21	Printed Name: Date:	Printed Name: Date:
Company: EMSS	Company:	Company:

9/8/2021

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300 - 75147

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat Mix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
SB-3-1.5	8/26/21	1422		Ice	X		X	X				X	X									X	
SB-3-2.5		1422			X		X	X				X	X										
SB-3-3.5		1422																					
SB-3-4.5		1422																					
SB-3-5.5		1422																					
SB-4-1		1605			X		X	X				X	X									X	
SB-4-2		1605																					
SB-4-3		1605																					
SB-4-4		1605																					
SB-4-5		1605																					

ARCHIVE

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp: 5-3/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: KB	Signature:	Signature:
Time: 0915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date:	Date:	Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature:	Signature:	Signature:
Time: 915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date: 8/27/21	Date:	Date:
Company: EAS	Company:	Company:

9/8/2021

eurofins | Environment Testing TestAmerica

Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom. by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X		
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X										X		
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X	X	X	X				X	X												
SB-6-04		1736			X	X	X	X				X	X												
SB-6-05		1736			X	X	X	X				X	X												

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 8/27	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27/21	Printed Name: Date:	Printed Name: Date:
Company: EMSI	Company:	Company:

9/8/2021

eurofins | Environment Testing TestAmerica

Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of C
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X												
SB-7-2		1825			X		X	X				X	X										X		
SB-7-3		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-4		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-5		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53 / 4-8

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: FedEx Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-1-1.5 (320-78145-1)	8/26/21	13:12 Pacific		Solid			X	X	X	X	X	X								5	
SB-1-2.5 (320-78145-2)	8/26/21	13:12 Pacific		Solid			X		X	X	X	X								5	
SB-1-3.5 (320-78145-3)	8/26/21	13:12 Pacific		Solid									X	X	X	X	X			1	
SB-1-4.5 (320-78145-4)	8/26/21	13:12 Pacific		Solid									X	X	X	X	X			1	
SB-1-5.5 (320-78145-5)	8/26/21	13:12 Pacific		Solid									X	X	X	X	X			1	
SB-2-1.0 (320-78145-6)	8/26/21	15:13 Pacific		Solid			X	X	X	X	X	X								5	
SB-2-2.0 (320-78145-7)	8/26/21	15:13 Pacific		Solid			X		X	X	X	X								5	
SB-2-4.0 (320-78145-8)	8/26/21	15:13 Pacific		Solid									X	X	X	X	X			1	
SB-2-5.0 (320-78145-9)	8/26/21	15:13 Pacific		Solid									X	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 8/27/21 1615	Company ETAS	Received by:	Date/Time: 8/27/21 1615	Company DCS	
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 1925	Company ETASAC	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2 & 2.7 & 4.4

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 2 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-3-1.5 (320-78145-10)	8/26/21	14:22 Pacific		Solid			X	X	X	X	X	X								5	
SB-3-2.5 (320-78145-11)	8/26/21	14:22 Pacific		Solid								X	X	X	X	X				5	
SB-3-3.5 (320-78145-12)	8/26/21	14:22 Pacific		Solid									X	X	X	X	X			1	
SB-3-4.5 (320-78145-13)	8/26/21	14:22 Pacific		Solid									X	X	X	X	X			1	
SB-3-5.5 (320-78145-14)	8/26/21	14:22 Pacific		Solid									X	X	X	X	X			1	
SB-4-1 (320-78145-15)	8/26/21	16:05 Pacific		Solid			X	X	X	X	X	X								5	
SB-4-2 (320-78145-16)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			5	
SB-4-3 (320-78145-17)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			1	
SB-4-4 (320-78145-18)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/27/21 1611	Company EMA SJ	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-4-5 (320-78145-19)	8/26/21	16:05 Pacific		Solid									X	X	X	X	X			1	
SB-5-01 (320-78145-20)	8/26/21	17:05 Pacific		Solid			X	X	X	X	X	X								5	
SB-5-02 (320-78145-21)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			5	
SB-5-03 (320-78145-22)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			1	
SB-5-04 (320-78145-23)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			1	
SB-5-05 (320-78145-24)	8/26/21	17:05 Pacific		Solid									X	X	X	X	X			1	
SB-6-01 (320-78145-25)	8/26/21	17:36 Pacific		Solid			X	X	X	X	X	X								5	
SB-6-02 (320-78145-26)	8/26/21	17:36 Pacific		Solid			X	X	X	X	X	X								5	
SB-6-03 (320-78145-27)	8/26/21	17:36 Pacific		Solid									X	X	X	X	X			1	

PUSH

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/27/21 1615	Company ETASAC	Received by:	Date/Time: 8/27/21 1615	Company DCS
Relinquished by:	Date/Time: 8-27-21 1925	Company DCS	Received by:	Date/Time: 8/27/21 1925	Company ETASAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Smith, Micah	Carrier Tracking No(s):	COC No: 320-238638.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Micah.Smith@Eurofinset.com	State of Origin: California	Page: Page 4 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California		Job #: 320-78145-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 9/1/2021			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 651 Martin, Santa Clara	Project #: 32018475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO/3550B (MOD) DRO/MRO	8081A/3546 Pesticides, Standard List	7471A/7471A_Prep Mercury Only	8260B/5035A_FW_7_Calc VOCs, Standard List	8260B/CA_LUFTMS/5035A_FW_7_Calc GRO C4-C12	6010B/3050B CAM 17 List, minus Mercury	8260B/5030B_SolidNAC VOCs, Standard List (Hold)	8260B/CA_LUFTMS/5030B_SolidNAC GRO C4-C12 (Hold)	8015B_DRO/3550B (MOD) DRO/MRO (Hold)	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B CAM 17 List, minus Mercury (Hold)			Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
SB-6-04 (320-78145-28)	8/26/21	17:36 Pacific		Solid									X	X	X	X	X			1	
SB-6-05 (320-78145-29)	8/26/21	17:36 Pacific		Solid									X	X	X	X	X			1	RUSH
SB-7-1 (320-78145-30)	8/26/21	18:25 Pacific		Solid			X	X	X	X	X	X								5	
SB-7-2 (320-78145-31)	8/26/21	18:25 Pacific		Solid			X		X	X	X	X								5	
SB-7-3 (320-78145-32)	8/26/21	18:25 Pacific		Solid									X	X	X	X	X			1	
SB-7-4 (320-78145-33)	8/26/21	18:25 Pacific		Solid									X	X	X	X	X			1	
SB-7-5 (320-78145-34)	8/26/21	18:25 Pacific		Solid									X	X	X	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 8/27/21 1615	Company: TEMSI	Received by:	Date/Time: 8/27/21 1615	Company: DCS	
Relinquished by:	Date/Time: 8-27-21 1925	Company: DCS	Received by:	Date/Time: 8/27/21 - 1925	Company: ETASAC	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-2

Login Number: 78145
List Number: 1
Creator: Garcia, Hilario A

List Source: Eurofins TestAmerica, Sacramento

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

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-2

Login Number: 78145
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2 & 2.7 & 4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-78145-3
Client Project/Site: 651 Martin, Santa Clara

For:
TRC Environmental Corporation
2300 Clayton Road
Suite 610
Concord, California 94520

Attn: Gary Lieberman

Authorized for release by:
9/10/2021 9:36:48 AM

Micah Smith, Project Manager II
(916)374-4302
Micah.Smith@Eurofinset.com

LINKS

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Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 320-78145-3

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-78145-3

Comments
No additional comments.

Receipt
The samples were received on 8/27/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.8º C and 5.3º C.

Metals
Method 6020: The following samples was diluted due to the nature of the sample matrix: High Sodium (Na) interfering analyte. SB-1-1.5 (320-78145-1), SB-1-2.5 (320-78145-2), SB-3-1.5 (320-78145-10), SB-3-2.5 (320-78145-11), SB-4-1 (320-78145-15), (LB4 320-522878/1-A ^50), (LCS 320-522878/2-A ^50), (LCSD 320-522878/3-A ^50), (320-78145-D-1-G MS ^50), (320-78145-D-1-H MSD ^50) and (320-78145-D-1-F SD ^250). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-3

Client Sample ID: SB-1-1.5 — Lab Sample ID: 320-78145-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.12		0.10	0.050	mg/L	50		6020	STLC Citrate

Client Sample ID: SB-1-2.5 — Lab Sample ID: 320-78145-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.32		0.10	0.050	mg/L	50		6020	STLC Citrate

Client Sample ID: SB-3-1.5 — Lab Sample ID: 320-78145-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.62		0.10	0.050	mg/L	50		6020	STLC Citrate

Client Sample ID: SB-3-2.5 — Lab Sample ID: 320-78145-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.28		0.10	0.050	mg/L	50		6020	STLC Citrate

Client Sample ID: SB-4-1 — Lab Sample ID: 320-78145-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.15		0.10	0.050	mg/L	50		6020	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-3

Client Sample ID: SB-1-1.5

Lab Sample ID: 320-78145-1
Date Collected: 08/26/21 13:12
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 6020 - Metals (ICP/MS) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.12		0.10	0.050	mg/L			09/09/21 16:55	50

Client Sample ID: SB-1-2.5

Lab Sample ID: 320-78145-2
Date Collected: 08/26/21 13:12
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 6020 - Metals (ICP/MS) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.32		0.10	0.050	mg/L			09/09/21 17:20	50

Client Sample ID: SB-3-1.5

Lab Sample ID: 320-78145-10
Date Collected: 08/26/21 14:22
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 6020 - Metals (ICP/MS) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.62		0.10	0.050	mg/L			09/09/21 17:24	50

Client Sample ID: SB-3-2.5

Lab Sample ID: 320-78145-11
Date Collected: 08/26/21 14:22
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 6020 - Metals (ICP/MS) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.28		0.10	0.050	mg/L			09/09/21 17:27	50

Client Sample ID: SB-4-1

Lab Sample ID: 320-78145-15
Date Collected: 08/26/21 16:05
Matrix: Solid
Date Received: 08/27/21 09:15

Method: 6020 - Metals (ICP/MS) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.15		0.10	0.050	mg/L			09/09/21 17:30	50

QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-3

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: LB4 320-522878/1-A ^50
Matrix: Solid
Analysis Batch: 523685

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10	0.050	mg/L			09/09/21 16:33	50

Lab Sample ID: LCS 320-522878/2-A ^50
Matrix: Solid
Analysis Batch: 523685

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium			20.0	20.5		mg/L		103	75 - 125		

Lab Sample ID: LCSD 320-522878/3-A ^50
Matrix: Solid
Analysis Batch: 523685

Client Sample ID: Lab Control Sample Dup
Prep Type: STLC Citrate

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium			20.0	21.5		mg/L		107	75 - 125	5	20

Lab Sample ID: 320-78145-1 MS
Matrix: Solid
Analysis Batch: 523685

Client Sample ID: SB-1-1.5
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium	0.12		20.0	21.7		mg/L		108	75 - 125		

Lab Sample ID: 320-78145-1 MSD
Matrix: Solid
Analysis Batch: 523685

Client Sample ID: SB-1-1.5
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	0.12		20.0	21.8		mg/L		109	75 - 125	1	20

QC Association Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-3

Metals

Leach Batch: 522878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	STLC Citrate	Solid	CA WET Citrate	
320-78145-2	SB-1-2.5	STLC Citrate	Solid	CA WET Citrate	
320-78145-10	SB-3-1.5	STLC Citrate	Solid	CA WET Citrate	
320-78145-11	SB-3-2.5	STLC Citrate	Solid	CA WET Citrate	
320-78145-15	SB-4-1	STLC Citrate	Solid	CA WET Citrate	
LB4 320-522878/1-A ^50	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 320-522878/2-A ^50	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
LCSD 320-522878/3-A ^50	Lab Control Sample Dup	STLC Citrate	Solid	CA WET Citrate	
320-78145-1 MS	SB-1-1.5	STLC Citrate	Solid	CA WET Citrate	
320-78145-1 MSD	SB-1-1.5	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 523685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-1	SB-1-1.5	STLC Citrate	Solid	6020	522878
320-78145-2	SB-1-2.5	STLC Citrate	Solid	6020	522878
320-78145-10	SB-3-1.5	STLC Citrate	Solid	6020	522878
320-78145-11	SB-3-2.5	STLC Citrate	Solid	6020	522878
320-78145-15	SB-4-1	STLC Citrate	Solid	6020	522878
LB4 320-522878/1-A ^50	Method Blank	STLC Citrate	Solid	6020	522878
LCS 320-522878/2-A ^50	Lab Control Sample	STLC Citrate	Solid	6020	522878
LCSD 320-522878/3-A ^50	Lab Control Sample Dup	STLC Citrate	Solid	6020	522878
320-78145-1 MS	SB-1-1.5	STLC Citrate	Solid	6020	522878
320-78145-1 MSD	SB-1-1.5	STLC Citrate	Solid	6020	522878

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-3

Client Sample ID: SB-1-1.5 — Lab Sample ID: 320-78145-1

Date Collected: 08/26/21 13:12 — **Matrix: Solid**
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.20 g	500 mL	522878	09/07/21 10:33	JLV	TAL SAC
STLC Citrate	Analysis	6020		50			523685	09/09/21 16:55	DPM	TAL SAC

Client Sample ID: SB-1-2.5 — Lab Sample ID: 320-78145-2

Date Collected: 08/26/21 13:12 — **Matrix: Solid**
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.30 g	500 mL	522878	09/07/21 10:33	JLV	TAL SAC
STLC Citrate	Analysis	6020		50			523685	09/09/21 17:20	DPM	TAL SAC

Client Sample ID: SB-3-1.5 — Lab Sample ID: 320-78145-10

Date Collected: 08/26/21 14:22 — **Matrix: Solid**
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.00 g	500 mL	522878	09/07/21 10:33	JLV	TAL SAC
STLC Citrate	Analysis	6020		50			523685	09/09/21 17:24	DPM	TAL SAC

Client Sample ID: SB-3-2.5 — Lab Sample ID: 320-78145-11

Date Collected: 08/26/21 14:22 — **Matrix: Solid**
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.45 g	500 mL	522878	09/07/21 10:33	JLV	TAL SAC
STLC Citrate	Analysis	6020		50			523685	09/09/21 17:27	DPM	TAL SAC

Client Sample ID: SB-4-1 — Lab Sample ID: 320-78145-15

Date Collected: 08/26/21 16:05 — **Matrix: Solid**
Date Received: 08/27/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.30 g	500 mL	522878	09/07/21 10:33	JLV	TAL SAC
STLC Citrate	Analysis	6020		50			523685	09/09/21 17:30	DPM	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-3

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

Method Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-3

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	TAL SAC

Protocol References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78145-1	SB-1-1.5	Solid	08/26/21 13:12	08/27/21 09:15
320-78145-2	SB-1-2.5	Solid	08/26/21 13:12	08/27/21 09:15
320-78145-10	SB-3-1.5	Solid	08/26/21 14:22	08/27/21 09:15
320-78145-11	SB-3-2.5	Solid	08/26/21 14:22	08/27/21 09:15
320-78145-15	SB-4-1	Solid	08/26/21 16:05	08/27/21 09:15

Smith, Micah

From: Lieberman, Gary <GLieberman@trccompanies.com>
Sent: Friday, September 3, 2021 5:24 PM
To: Smith, Micah
Subject: RE: [EXTERNAL] Preliminary Eurofins TestAmerica report files from 320-78145-1 651 Martin, Santa Clara

EXTERNAL EMAIL*

Micah – please log in the following samples for STLC Chromium on 3 Day TAT:

- **Lab Sample ID: 320-78145-1**
- **Lab Sample ID: 320-78145-2**
- **Lab Sample ID: 320-78145-10**
- **Lab Sample ID: 320-78145-11**
- **Lab Sample ID: 320-78145-15**

Also can you explain what the following footnote means relative to sample validity:

*3 ISTD response or retention time outside acceptable limits.

Gary Lieberman
Senior Project Manager

2300 Clayton Road Ste. 610 Concord, CA 94520
T 925.688.2463 | **C** 707.888.1683 | glieberman@trccompanies.com
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Micah Smith <Micah.Smith@Eurofinset.com>
Sent: Thursday, September 2, 2021 6:05 PM
To: Lieberman, Gary <GLieberman@trccompanies.com>
Subject: [EXTERNAL] Preliminary Eurofins TestAmerica report files from 320-78145-1 651 Martin, Santa Clara

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hello,

Attached please find the report files for job 320-78145-1; 651 Martin, Santa Clara

eurofins | Environment Testing TestAmerica

PO 170671 Revised 320-78145

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Arsenic 6.0 CARB 435	Number of Containers
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X										X	
SB-1-2.5		1312			X		X	X				X	X		NO PESTICIDES									
SB-1-3.5		1312			X		X	X				X	X											
SB-1-4.5		1312			X		X	X				X	X		ARCHIVE									
SB-1-5.5		1312			X		X	X				X	X											
SB-2-1.0		1513			X		X	X				X	X										X	
SB-2-2.0		1513			X		X	X				X	X		NO PESTICIDES									
SB-2-4.0		1513			X		X	X				X	X											
SB-2-5.0		1513			X		X	X				X	X		ARCHIVE									

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: Signature Time / Printed Name Date / Company

2) Relinquished by: Signature Time / Printed Name Date / Company

320-78145 Chain of Custody

1) Received by: Signature Time / Printed Name Date / Company

2) Received by: Signature Time / Printed Name Date / Company

3) Received by: Signature Time / Printed Name Date / Company

Revised 720-72148

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord 94520
Email: glieberman@trccompanies.com
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		
SB-3-1.5	8/26/21	1422		Ice	X	X	X	X				X	X										X		
SB-3-2.5		1422			X		X	X				X	X		NO PESTICIDES										
SB-3-3.5		1422			X		X	X				X	X												
SB-3-4.5		1422			X		X	X				X	X												
SB-3-5.5		1422			X		X	X				X	X												
SB-4-0.1		1605			X		X	X				X	X										X		
SB-4-0.2		1605			X		X	X				X	X												
SB-4-0.3		1605			X		X	X				X	X												
SB-4-0.4		1605			X		X	X				X	X												
SB-4-0.5		1605			X		X	X				X	X												

ARCHIVE

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Remove ... 78 49

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 6 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X		
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X										X		
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X		X	X				X	X												
SB-6-04		1736			X		X	X				X	X												
SB-6-05		1736			X		X	X				X	X												

ARCHIVE

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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Pleasanton Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X												
SB-7-2		1825			X		X	X				X	X										X		
SB-7-3		1825			X		X	X				X	X												
SB-7-4		1825			X		X	X				X	X												
SB-7-5		1825			X		X	X				X	X												

NO PESTICIDES

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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320-75148

Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X									X	
SB-1-2.5		1312			X		X	X				X	X										
SB-1-3.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-4.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-5.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-1.0		1513			X		X	X				X	X									X	
SB-2-2.0		1513			X		X	X				X	X										
SB-2-4.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-5.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										

ARCHIVE

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp: 5-3 4 8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27/21	Printed Name: Date:	Printed Name: Date:
Company: EMSS	Company:	Company:

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat Mix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
SB-3-1.5	8/26/21	1422		Ice	X		X	X				X	X									X	
SB-3-2.5		1422			X		X	X				X	X										
SB-3-3.5		1422																					
SB-3-4.5		1422																					
SB-3-5.5		1422																					
SB-4-1		1605			X		X	X				X	X									X	
SB-4-2		1605																					
SB-4-3		1605																					
SB-4-4		1605																					
SB-4-5		1605																					

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp: 5-3/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: KB	Signature:	Signature:
Time: 0915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date:	Date:	Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature:	Signature:	Signature:
Time: 915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date: 8/27/21	Date:	Date:
Company: EAS	Company:	Company:

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom. by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X		
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X										X		
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X	X	X	X				X	X												
SB-6-04		1736			X	X	X	X				X	X												
SB-6-05		1736			X	X	X	X				X	X												

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature]	Signature	Signature
Time: 8/27	Time	Time
Printed Name	Printed Name	Printed Name
Date	Date	Date
Company	Company	Company

1) Received by	2) Received by	3) Received by
Signature: [signature]	Signature	Signature
Time: 915	Time	Time
Printed Name	Printed Name	Printed Name
Date: 8/27/21	Date	Date
Company: EMTS	Company	Company

9/10/2021

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord 94520
Email: glieberman@trccompanies.com
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of C
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X												
SB-7-2		1825			X		X	X				X	X										X		
SB-7-3		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-4		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-5		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												

ARCHIVE

Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53 / 4-8

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: FedEx Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-3

Login Number: 78145
List Number: 1
Creator: Garcia, Hilario A

List Source: Eurofins TestAmerica, Sacramento

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

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-3

Login Number: 78145
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2 & 2.7 & 4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-78145-4
Client Project/Site: 651 Martin, Santa Clara

For:
TRC Environmental Corporation
2300 Clayton Road
Suite 610
Concord, California 94520

Attn: Gary Lieberman

Authorized for release by:
9/20/2021 4:52:36 PM

Micah Smith, Project Manager II
(916)374-4302
Micah.Smith@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-4

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 320-78145-4

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-78145-4

Comments
No additional comments.

Receipt
The samples were received on 8/27/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.8º C and 5.3º C.

Metals
Method 6020: The following samples was diluted due to the nature of the sample matrix: High Sodium (Na) interfering analyte. SB-7-2 (320-78145-31), (LB4 320-524871/1-A), (LCS 320-524871/2-A), (LCSD 320-524871/3-A) and (320-77850-A-4-D). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-4

Client Sample ID: SB-7-2

Lab Sample ID: 320-78145-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.078	J	0.10	0.050	mg/L	50		6020	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-4

Client Sample ID: SB-7-2

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-31

Matrix: Solid

Method: 6020 - Metals (ICP/MS) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.078	J	0.10	0.050	mg/L			09/19/21 17:19	50

QC Sample Results

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-4

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: LB4 320-524871/1-A
Matrix: Solid
Analysis Batch: 526598

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10	0.050	mg/L			09/19/21 16:20	50

Lab Sample ID: LCS 320-524871/2-A
Matrix: Solid
Analysis Batch: 526598

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium			20.0	20.7		mg/L		103	75 - 125		

Lab Sample ID: LCSD 320-524871/3-A
Matrix: Solid
Analysis Batch: 526598

Client Sample ID: Lab Control Sample Dup
Prep Type: STLC Citrate

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium			20.0	20.7		mg/L		104	75 - 125	0	20

QC Association Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-4

Metals

Leach Batch: 524871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-31	SB-7-2	STLC Citrate	Solid	CA WET Citrate	
LB4 320-524871/1-A	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 320-524871/2-A	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
LCSD 320-524871/3-A	Lab Control Sample Dup	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 526598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78145-31	SB-7-2	STLC Citrate	Solid	6020	524871
LB4 320-524871/1-A	Method Blank	STLC Citrate	Solid	6020	524871
LCS 320-524871/2-A	Lab Control Sample	STLC Citrate	Solid	6020	524871
LCSD 320-524871/3-A	Lab Control Sample Dup	STLC Citrate	Solid	6020	524871

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-4

Client Sample ID: SB-7-2

Date Collected: 08/26/21 18:25
Date Received: 08/27/21 09:15

Lab Sample ID: 320-78145-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.04 g	500 mL	524871	09/14/21 11:18	JLV	TAL SAC
STLC Citrate	Analysis	6020		50			526598	09/19/21 17:19	DPM	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-4

Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-22

Method Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-4

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	TAL SAC

Protocol References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: TRC Environmental Corporation
Project/Site: 651 Martin, Santa Clara

Job ID: 320-78145-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78145-31	SB-7-2	Solid	08/26/21 18:25	08/27/21 09:15

Smith, Micah

From: Lieberman, Gary <GLieberman@trccompanies.com>
Sent: Monday, September 13, 2021 3:57 PM
To: Smith, Micah
Subject: Additional Sample for STLC Cr

EXTERNAL EMAIL*

Micah – looks like I missed a sample for STLC Cr on original request – can you run the following sample for STLC Cr on 5 Day TAT. This e-mail serves as authorization to analyze sample. Thanks Gary

Client Sample ID: SB-7-2 - Lab Sample ID: 320-78145-31

Gary Lieberman
Senior Project Manager

2300 Clayton Road Ste. 610 Concord, CA 94520
T 925.688.2463 | **C** 707.888.1683 | glieberman@trccompanies.com
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Smith, Micah <Micah.Smith@Eurofinset.com>
Sent: Tuesday, September 7, 2021 10:55 AM
To: Lieberman, Gary <GLieberman@trccompanies.com>
Subject: RE: [EXTERNAL] Preliminary Eurofins TestAmerica report files from 320-78145-1 651 Martin, Santa Clara

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Gary,
I will get the STLC started.

The note "*3 ISTD response or retention time outside acceptable limits." In this case refers to the Internal standards failing low. A Low Internal standard can give a high bias to associated analytes detected. It looks like only SB-1-1.5 (320-78145-1) had hits while the rest were ND for the associated analytes.

Thank you.

Micah Smith

How are we doing? Let us know!

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PO 170671 Revised 320-78145

Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Arsenic 6/35 CARB 4/35	Number of Containers
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X										X	
SB-1-2.5		1312			X		X	X				X	X		NO PESTICIDES									
SB-1-3.5		1312			X		X	X				X	X		ARCHIVE									
SB-1-4.5		1312			X		X	X				X	X											
SB-1-5.5		1312			X		X	X				X	X											
SB-2-1.0		1513			X		X	X				X	X										X	
SB-2-2.0		1513			X		X	X				X	X		NO PESTICIDES									
SB-2-4.0		1513			X		X	X				X	X		ARCHIVE									
SB-2-5.0		1513			X		X	X				X	X											

Project Info.

Project Name/#: 651 Martin
PO#:

Sample Receipt

# of Containers:
Head Space:
Temp:

Credit Card Y/N: If yes, please call with payment information ASAP

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

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1) Relinquished by: Signature Time / Printed Name Date / Company

2) Relinquished by: Signature Time / Printed Name Date / Company

320-78145 Chain of Custody

Company

1) Received by: Signature Time / Printed Name Date / Company

2) Received by: Signature Time / Printed Name Date / Company

3) Received by: Signature Time / Printed Name Date / Company

Revised 720-72148

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord 94520
Email: glieberman@trccompanies.com
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☒ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		
SB-3-1.5	8/26/21	1422		Ice	X	X	X	X				X	X										X		
SB-3-2.5		1422			X		X	X				X	X		NO PESTICIDES										
SB-3-3.5		1422			X		X	X				X	X												
SB-3-4.5		1422			X		X	X				X	X												
SB-3-5.5		1422			X		X	X				X	X												
SB-4-0.1		1605			X		X	X				X	X										X		
SB-4-0.2		1605			X		X	X				X	X												
SB-4-0.3		1605			X		X	X				X	X												
SB-4-0.4		1605			X		X	X				X	X												
SB-4-0.5		1605			X		X	X				X	X												

ARCHIVE

ARCHIVE

Project Info.

Project Name/#: 651 Martin

PO#:

Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:

Head Space:

Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				✓			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

Remove ... 7849

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Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 6 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X		
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X										X		
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X		X	X				X	X												
SB-6-04		1736			X		X	X				X	X												
SB-6-05		1736			X		X	X				X	X												

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

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Company	Company	Company

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Signature / Time	Signature / Time	Signature / Time
Printed Name / Date	Printed Name / Date	Printed Name / Date
Company	Company	Company

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Pleasanton Chain of Custody
1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 600-3002

Reference #: _____

Date 8/26/21 Page 4 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☑ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X										X		
SB-7-2		1825			X		X	X				X	X												
SB-7-3		1825			X		X	X				X	X												
SB-7-4		1825			X		X	X				X	X												
SB-7-5		1825			X		X	X				X	X												

NO PESTICIDES

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID _____

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3) Relinquished by: Signature Time / Printed Name Date / Company

1) Received by: Signature Time / Printed Name Date / Company

2) Received by: Signature Time / Printed Name Date / Company

3) Received by: Signature Time / Printed Name Date / Company

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 1 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat Mix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
~~SB~~ SB-1-1.5	8/26/21	1312		Ice	X		X	X				X	X									X	
SB-1-2.5		1312			X		X	X				X	X										
SB-1-3.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-4.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-1-5.5		1312			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-1.0		1513			X		X	X				X	X									X	
SB-2-2.0		1513			X		X	X				X	X										
SB-2-4.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										
SB-2-5.0		1513			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~										

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp: 5-3 4 8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27/21	Printed Name: Date:	Printed Name: Date:
Company: EMSS	Company:	Company:

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 2 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord CA 94520
Email: glieberman@trccompanies.com
Bill To:
Sampled By: KJB
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Mat Mix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435	
SB-3-1.5	8/26/21	1422		Ice	X		X	X				X	X									X	
SB-3-2.5		1422			X		X	X				X	X										
SB-3-3.5		1422			X		X	X				X	X										
SB-3-4.5		1422			X		X	X				X	X										
SB-3-5.5		1422			X		X	X				X	X										
SB-4-1		1605			X		X	X				X	X									X	
SB-4-2		1605			X		X	X				X	X										
SB-4-3		1605			X		X	X				X	X										
SB-4-4		1605			X		X	X				X	X										
SB-4-5		1605			X		X	X				X	X										

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

# of Containers:
Head Space:
Temp: 5-3/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: KJB	Signature:	Signature:
Time: 0915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date:	Date:	Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature:	Signature:	Signature:
Time: 915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date: 8/27/21	Date:	Date:
Company: EAS	Company:	Company:

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 3 of 4

Report To

Attn: Gary Lieberman
Company: TRC
Address: 2300 Clayton Rd. Ste 160 Concord
Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471) ✓	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom. by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of Containers
SB-5-01	8/26/21	1705		Ice	X		X	X				X	X										X		
SB-5-02		1705			X		X	X				X	X												
SB-5-03		1705			X		X	X				X	X												
SB-5-04		1705			X		X	X				X	X												
SB-5-05		1705			X		X	X				X	X												
SB-6-01		1736			X		X	X				X	X										X		
SB-6-02		1736			X		X	X				X	X												
SB-6-03		1736			X	X	X	X				X	X												
SB-6-04		1736			X	X	X	X				X	X												
SB-6-05		1736			X	X	X	X				X	X												

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53/4-8

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other
				(3 Day)			

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

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Signature: [signature]	Signature:	Signature:
Time: 8:00	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date: 8/27	Date:	Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature]	Signature:	Signature:
Time: 915	Time:	Time:
Printed Name:	Printed Name:	Printed Name:
Date: 8/27/21	Date:	Date:
Company: EMTS	Company:	Company:

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Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 200679

Date 8/26/21 Page 4 of 4

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Attn: Gary Lieberman
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Email: glieberman@trccompanies.com 94520
Bill To:
Sampled By: KJ
Attn:
Phone: 707-888-1683

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☑ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☑ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH-EPA 8015B ☐ Silica Gel ☑ Diesel ☑ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☑ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Asbestos CARB 435		Number of C
SB-7-1	8/26/21	1825		Ice	X		X	X				X	X												
SB-7-2		1825			X		X	X				X	X										X		
SB-7-3		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-4		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												
SB-7-5		1825			~~X~~		~~X~~	~~X~~				~~X~~	~~X~~												

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Project Info.

Project Name/#: 651 Martin
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 53 / 4-8

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☑ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 0915	Signature: Time:	Signature: Time:
Printed Name: Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

1) Received by	2) Received by	3) Received by
Signature: [signature] Time: 915	Signature: Time:	Signature: Time:
Printed Name: FedEx Date: 8/27	Printed Name: Date:	Printed Name: Date:
Company:	Company:	Company:

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-4

Login Number: 78145
List Number: 1
Creator: Garcia, Hilario A

List Source: Eurofins TestAmerica, Sacramento

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

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 320-78145-4

Login Number: 78145
List Number: 2
Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2 & 2.7 & 4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Prepared for
California Energy Commission

Prepared by
Ramboll US Consulting, Inc.
San Francisco, California

Project Number
1690027327

Date
October 2022

PLUME RISE ASSESSMENT

MARTIN AVENUE PROPERTIES, LLC
SANTA CLARA, CALIFORNIA

RAMBOLL

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Figure 1 – Stack Locations

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Appendix A – Plume Rise Calculations

LIST OF ACRONYMS

ACFM	Actual cubic feet per minute
AGL	above ground level
CASA	Civil Aviation Safety Authority
CEC	California Energy Commission
°F	degree Fahrenheit
ft	feet
ft/s	feet per second
K	Kelvin
m	meter
m/s	meters per second
PEP	Palmdale Energy Project
s	second

1. INTRODUCTION

1.1 Background

Martin Avenue Properties, LLC (Martin LLC) is proposing to develop a data center in Santa Clara, California, at 651 Martin Avenue. The data center will involve forty-four (44) backup emergency diesel generators and forty-eight (48) roof-mounted air chillers.

To supplement its Small Power Plant Exemption application to the California Energy Commission (CEC), Martin LLC has engaged Ramboll US Consulting, Inc. (Ramboll) to conduct a screening assessment to evaluate the potential implications of the thermal plumes from the proposed equipment stacks on aviation safety. The assessment of vertical plume velocity was conducted in accordance with CEC methodology, invoking the Spillane methodology to analytically solve for plume height. The effect of merged plumes is taken into account.

The acceptable plume vertical velocity threshold is specified in supplemental testimony of James Adams and Appendix TT-2 of a CEC project titled “Palmdale Energy Project” (PEP) docketed on December 29, 2016. This project defines the significance level of 5.3 meters per second (m/s) at all heights above 1,500 feet above ground level (AGL). The threshold of 5.3 m/s average velocity is used in this assessment.

The vertical velocity of the emissions from the emergency standby generators and the air-cooled chillers will be greater than 5.3 m/s at the point of discharge and therefore an assessment of the vertical velocity is required to be undertaken.

2. SCREENING ASSESSMENT

2.1 Vertical Plume Velocity Guidelines

The assessment will conservatively determine the potential for turbulence generated by the plume-averaged vertical velocity of the emergency standby generator and chiller exhaust plumes. The method uses worst-case assumptions of calm winds and neutral atmospheric conditions for the entire vertical extent of the plume to determine the worst-case impacts.

Since the development of a simple-cycle gas turbine power station at the end of a runway in Australia in the mid-1990s,[1] the Australian Civil Aviation Safety Authority (CASA) has taken an active role in the review of the siting of facilities with the potential to affect aviation activities.

Potential hazards that could affect the safety of aircraft include tall visible or invisible obstructions. Visible obstructions include structures such as tall stacks or communication towers. Invisible obstructions include industrial exhausts that generate significant turbulence due to high velocity and buoyancy. CASA has issued an Advisory Circular (CASA 2012) that specifies the requirements and methodologies to be used to assess whether a new industrial plume is likely to have adverse implications for aviation safety.

The general CASA requirement is to determine the height at which the plume (or plumes) could generate atmospheric turbulence and to determine the dimensions of the plume in these circumstances. The frequency of in-plume vertical velocities at the lowest height an aircraft may travel over the site, and at other heights are also required. For large plumes that are remote from airports, CASA requires an assessment that determines the size of a hazard zone to alert pilots to the potential hazard. Normally this analysis uses a sophisticated air dispersion model that determines plume vertical velocities and lateral/ vertical extents based on wind fields generated from actual meteorological data. Rather than use such a refined technique, a conservative screening analysis based on calm wind field assumptions was used for this project.

For this assessment, the plume-averaged vertical velocities were calculated as a function of height under calm conditions. The established CEC significance criteria is for an averaged plume velocity to equal or exceed 5.3 m/s at altitudes where aircraft can operate. This significance criteria were adopted in the CEC PEP.

[1] Note that this project consists of internal combustion engines (ICEs) and air-cooled chillers that have plume exhausts with much smaller volumetric flows and buoyancy fluxes than the turbine projects that elicited the initial interest of CASA.

3. MODEL INPUT DATA

3.1 Emissions Information

The proposed data center will have a number of atmospheric emission sources including:

1. Emergency standby diesel generators; and
2. Air-cooled "free cooling" chillers.

Ramboll analyzed these sources under three ambient temperature scenarios—30 degrees Fahrenheit (^{0}F), 59^{0}F, and 76^{0}F. The emission parameters used within the screening assessment for the three scenarios considered are presented in **Table 1**.

Table 1 - Stack Parameters

	Emergency generators		
	Scenario 1	**Scenario 2**	**Scenario 3**
Ambient Potential Temp (^{0}F)	30	59	76
Stack Height (feet)	55.2	55.2	55.2
Stack Diameter (feet)	2.8	2.8	2.8
Stack Velocity at exit (m/s)	35.5	35.5	35.5
Stack Potential Temp (F)	893	893	893
	Air-cooled chillers		
	Scenario 1	**Scenario 2**	**Scenario 3**
Ambient Potential Temp (^{0}F)	30	59	76
Stack Height (feet)	109.7	109.7	109.7
Stack Diameter (feet)	3	3	3
Stack Velocity at exit (m/s)	10.2	10.2	10.2
Stack Potential Temp (F)	120.0	120.0	120.0

The 44 generator stacks and 48 chiller stacks are arranged in the configuration displayed in **Figure 1**. The generators will be in a double-stacked arrangement in a single row, with 22 generators on each level. The exhaust stacks for both levels would be routed away from the building horizontally, penetrate an adjacent screening wall, and discharge at a 45-degree angle. For purposes of this analysis, the exhaust from the lower-level generators was conservatively assumed to be released at the same height as the upper-level generators. To account for the additional exhaust volume, the stack diameter in the model was updated to reflect the cross-sectional area equivalent of two single stacks. Lastly, although the exhaust will be discharged at a 45-degree angle, the full flow velocity (rather than the y-component of the flow velocity) was conservatively evaluated in this analysis.

The chillers are located on the roofs of the buildings. Buildings are approximately 104 feet in height. The chillers are placed on acoustical stacks which are 66 inches tall. The top of the chillers would be nearly 110 feet AGL (including the 5 ft 6 inches for the platforms).

3.2 Methodology

This assessment analyses vertical plume rise using the Spillane methodology, developed by Dr. Kevin Spillane, to analytically solve for plume heights above the jet phase in calm conditions. Three methods were evaluated: Method 1 assumes conservation of buoyancy and a Gaussian distribution of the vertical velocities, Method 2 is based on the Best et al., 2003

paper's analytical solution, and Method 3 considers the enhancement of vertical velocities that may occur if the plumes from multiple stacks merge and form a higher buoyancy combined/merged plume. Method 3, developed by the CEC, is based on the single stack plume velocity multiplied by the number of stacks raised to the 0.25 power.

4. MODEL RESULTS

4.1 Worst-Case Calm Wind Scenario

Plumes that may have a vertical velocity of greater than 5.3 m/s are of primary interest to the airport safety authorities. While the vertical velocity of the plumes at the point of discharge are in excess of 5.3 m/s, the vertical velocity is quickly dissipated following discharge as the plume mixes with ambient air.

Ramboll evaluated all three scenarios described in **Table 1** and found that the results for the emergency generators under all three ambient temperatures was nearly the same, whereas the results for the chillers were slightly worse under an ambient temperature of 76°F (Scenario 3). Results of the plume vertical velocities at various heights are presented in Appendix A and summarized in **Table 2** based both the Spillane methodology and the CEC methodology (merged plumes).

For this conservative analysis, both single plume and merged plume velocities were evaluated. Using the Spillane methodology Method 1, the plume-averaged vertical velocity drops below the CEC screening threshold of 5.3 m/s at 121 feet AGL for one emergency generator and at 128 feet AGL for one chiller. Method 2 yielded lower heights than Method 1 of 108 feet and 127 feet, respectively, for the emergency generators and chillers. Using the CEC methodology of merged plumes, the vertical velocity drops below 5.3 m/s for the 44 generators at 108 feet AGL and for the 48 chillers at 133 feet AGL.

Table 2 - Model Results

Assumptions							Maximum Height Above Ground with Vertical Velocity above Threshold (5.3 m/s)		
Source (Number of Units)	**Ambient Temperature**	**Stack Height (h_s)**	**Stack Diameter (D)**	**Stack Velocity (V_{exit})**	**Volumetric Flow**	**Stack Potential Temperature (θ_s)**	**Method 1**	**Method 2**	**Merged Plumes**
Emergency Diesel Generators (44)	272 K (30°F)[1]	16.84 m (55.2 ft)	0.86 m (2.8 ft)	35.48 m/s (116.4 ft/s)	44,497 ACFM	752 K (893.1°F)	36.88 m (121 ft)	32.92 m (108 ft)	32.92 m (108 ft)
Chillers[2] (48)	272 K (76°F)	33.43 m (110 ft)	0.91 m (3.0 ft)	10.15 m/s (33.3 ft/s)	14,130 ACFM	322 K (120.0°F)	39.01 m (128 ft)	38.71 m (127 ft)	40.54 m (133 ft)

Notes:

K - Kelvin

[1] The results were the same for all three ambient temperatures assessed (30ºF, 59ºF, 76ºF).

[2] These values apply for a single fan; for a turbine array, a volumetric flow was utilized for 26 adjacent fans, as is the case for the facility chillers.

5. SUMMARY AND CONCLUSION

Modelling of the characteristics of the plumes from the diesel emergency generators and roof-mounted air chillers at the Vantage Walsh data center has been completed and indicates:

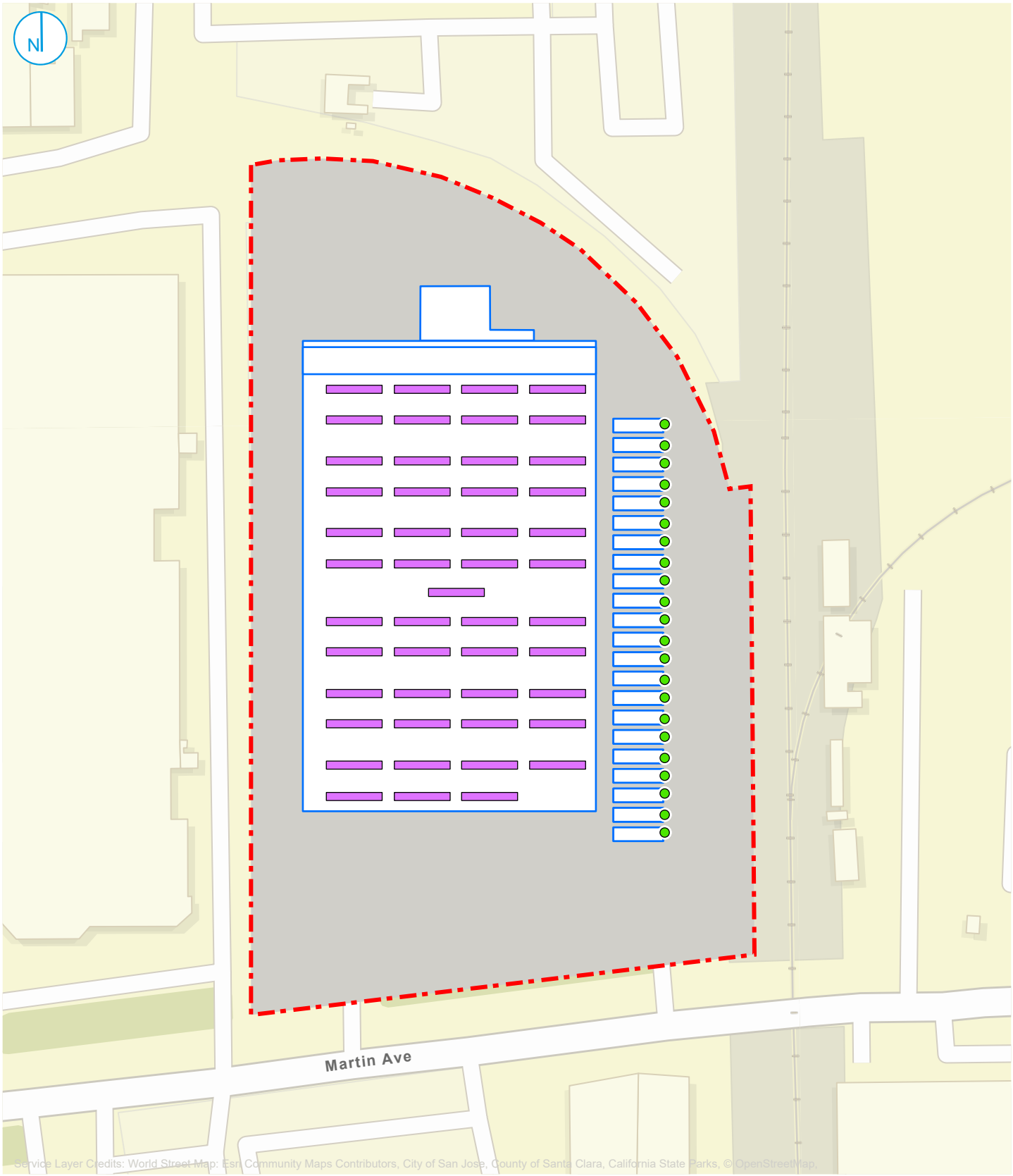
1. Under worst-case ambient conditions and calculation methodology, predicted vertical velocities are below 5.3 m/s for emergency generators at a height of 121 feet AGL; and
2. Under worst-case ambient conditions and calculation methodology, predicted vertical velocities are below 5.3 m/s for roof-mounted air chillers at a height of 133 feet AGL.

6. REFERENCES

Best, P., Jackson, L., Killip, C., Kanowski, M., Spillane, K. (2003) “Aviation Safety and Buoyant Plumes.” Clean Air Conference, Newcastle, New South Wale, Australia.

Civil Aviation Safety Authority. 2012. Advisory Circular. AC 139-5(1). Australian Government. November.

FIGURES



Facility Boundary

Buildings and Structures

Roof-Top Chillers

Emergency Generator Stacks
(each dot represents two stacks)

0 62.5 125 Feet

STACK AND CHILLER LOCATIONS
MARTIN AVENUE PROPERTIES DATA CENTER

651 Martin Avenue
Santa Clara, California

FIGURE 01

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY

RAMBOLL

APPENDIX A
PLUME RISE CALCULATIONS

EDGs - 30F, 100% Load

PETER BEST PAPER ILLUSTRATIVE EXAMPLE - SINGLE TURBINE - Assumes Heights in Table 2 are meters above ground

Plume Averaged Vertical Velocities: **"*Aviation Safety and Buoyant Plumes*," Peter Best, et. al.**

Ambient Conditions:

Ambient Potential Temp θ_a	**272**	Kelvins	**30.0**	°F	Constants: Assume neutral conditions ($d\theta/dz=0$)	
Plume Exit Conditions:					Gravity g: 9.81	m/s^2
Stack Height h_s	**16.84**	meters	**55.2**	feet	λ: 1.11	
Stack Diameter D	**0.86**	meters	**2.8**	feet	0.3048	meters/feet
Stack Velocity V_{exit}	**35.5**	m/s	**116.4**	ft/sec		
Volumetric Flow	**21**	cu.m/sec	**44,497**	ACFM	$\pi V_{exit}D^2/4$	Sect.2/¶1
Stack Potential Temp θ_s	**752**	Kelvins	**893**	°F	Back-Calc'd from Buoyancy Flux	
Initial Stack Buoyancy Flux F_o	**41**	m^4/s^3			$gV_{exit}D^2(1-\theta_a/\theta_s)/4$ = Vol.Flow$(g/\pi)(1-\theta_a/\theta_s)$	Sect.2/¶1
Plume Buoyancy Flux F	N/A	m^4/s^3			$\lambda^2 gVa^2(1-\theta_a/\theta_p)$ for a,V,θ_p at plume height (not used here)	

Conditions at End (Top) of Jet Phase:

Height above Stack z	**5.388**	meters*	**17.7**	feet*	6.25D, meters*=meters above stack top		Sect.3/¶1
Height above Ground $z+h_s$	**22.228**	meters	**72.9**	feet	h_s + 6.25D		"
Vertical Velocity V_{plume}	**17.740**	m/s	**58.20**	ft/sec	$0.5V_{exit}$	$V_{exit}/2$	"
Plume Top-Hat Diameter 2a	**1.724**	meters	**5.7**	feet	2D	Conservation of momentum	"

Spillane Methodology - Analytical Solutions for Calm Conditions for Plume Heights above Jet Phase

Plume Top-Hat Radius a	**Solutions in Table Below**				$0.16(z-z_v)$, or linear increase with height	Sect.2/Eq.6
Virtual Source Height z_v	**2.146**	meters*	**7.0**	feet*	$6.25D[1-(\theta_a/\theta_s)^{1/2}]$, meters*=meters above stack top	Sect.2/Eq.6
Height above Ground z_v+h_s	**18.987**	meters	**62.3**	feet	where $(\theta_a/\theta_s)^{1/2} = (\theta_a/\theta_s)^{1/2}$=	0.6016438

Method(1): Simplified Plume-averaged Vertical Velocity V' - Assumes Product Va constant above jet phase such that $V_{plume}(2a) = V_{exit}D$

Vertical Velocity V'	**Solutions in Table Below**	$V_{exit}D/2a'$ (conservation of buoyancy)	Sect.3&4

Method(2): Plume-averaged Vertical Velocity V given by Analytical Solution in Paper where Product Va given by equations below:

Vertical Velocity V	**Solutions in Table Below**		$\{(Va)_o^3 + 0.12F_o[(z-z_v)^2 - (6.25D-z_v)^2]\}^{(1/3)}$ / a	Sect.2.1(6)
Product $(Va)_o$	**9.201**	m^2/s	$V_{exit}D/2(\theta_a/\theta_s)^{1/2}$	

EDGs - 30F, 100% Load

Table of plume Top-Hat Diameters (2a) and Plume-averaged Vertical Velocities for both Method(1) (assuming conservation of buoyancy & gaussian distribution of vertical velocities) and Method (2) (based on Peter Best's paper's Analytical Solution) starting at end of jet phase:

from 100 meters above ground in increments of 50.0 meters

				Vert.Vel (m/s)	
				Method(1)	Method(2)
	Ht above Ground =	$h_{plume}+h_s$	$D_{plume}=2a=$	$V_{plume}=$	$\{(Va)_o^3+0.12F_o[(z-z_v)^2$
Height above stack top, meters*	meters	feet	$2*0.16(z-z_v)$	$V_{exit}*D/2a$	$-(6.25D-z_v)^2]\}^{1/3}$ / a
End of jet phase at 6.25D = 5.38822 meters*	***22.228***	***72.9***	***1.724***		***17.74***
83.160 meters*	**100.000**	328.1	25.924	1.18	**2.48**
133.160 meters*	150.000	492.1	41.924	0.73	2.10
183.160 meters*	**200.000**	656.2	57.924	0.53	**1.89**
233.160 meters*	250.000	820.2	73.924	0.41	1.74
283.160 meters*	**300.000**	984.3	89.924	0.34	**1.63**
333.160 meters*	350.000	1148.3	105.924	0.29	1.54
383.160 meters*	400.000	1312.3	121.924	0.25	1.47
433.160 meters*	450.000	1476.4	137.924	0.22	1.41
483.160 meters*	**500.000**	1640.4	153.924	0.20	**1.36**
533.160 meters*	550.000	1804.5	169.924	0.18	1.32
583.160 meters*	600.000	1968.5	185.924	0.16	1.28
633.160 meters*	650.000	2132.5	201.924	0.15	1.24
683.160 meters*	**700.000**	2296.6	217.924	0.14	**1.21**
733.160 meters*	750.000	2460.6	233.924	0.13	1.18
783.160 meters*	800.000	2624.7	249.924	0.12	1.16
833.160 meters*	850.000	2788.7	265.924	0.12	1.13
883.160 meters*	900.000	2952.8	281.924	0.11	1.11
933.160 meters*	950.000	3116.8	297.924	0.10	1.09
983.160 meters*	**1000.000**	3280.8	313.924	0.10	**1.07**
1033.160 meters*	1050.000	3444.9	329.924	0.09	1.05
1083.160 meters*	1100.000	3608.9	345.924	0.09	1.04
1133.160 meters*	1150.000	3773.0	361.924	0.08	1.02
1183.160 meters*	1200.000	3937.0	377.924	0.08	1.01
1233.160 meters*	1250.000	4101.0	393.924	0.08	0.99

EDGs - 30F, 100% Load

	m	ft		Method(1) m/s	Method(2) m/s
1.448 meters*	18.288	60.0	-0.223	-136.86	-80.55
4.191 meters*	21.031	69.0	0.654	46.75	27.74
4.496 meters*	21.336	70.0	0.752	40.68	24.21
4.801 meters*	21.641	71.0	0.849	36.01	21.50
5.106 meters*	21.946	72.0	0.947	32.30	19.36
5.410 meters*	22.251	73.0	1.044	29.28	17.62
5.715 meters*	22.555	74.0	1.142	26.78	16.19
6.020 meters*	22.860	75.0	1.240	24.68	14.99
6.325 meters*	23.165	76.0	1.337	22.88	13.96
6.630 meters*	23.470	77.0	1.435	21.32	13.08
6.934 meters*	23.775	78.0	1.532	19.96	12.32
7.239 meters*	24.079	79.0	1.630	18.77	11.65
7.544 meters*	24.384	80.0	1.727	17.71	11.06
7.849 meters*	24.689	81.0	1.825	16.76	10.53
8.154 meters*	24.994	82.0	1.922	15.91	10.07
8.459 meters*	25.299	83.0	2.020	15.14	9.64
8.763 meters*	25.604	84.0	2.117	14.45	9.26
9.068 meters*	25.908	85.0	2.215	13.81	8.92
9.373 meters*	26.213	86.0	2.312	13.23	8.61
9.678 meters*	26.518	87.0	2.410	12.69	8.32
9.983 meters*	26.823	88.0	2.508	12.20	8.06
10.287 meters*	27.128	89.0	2.605	11.74	7.82
10.592 meters*	27.432	90.0	2.703	11.32	7.59
10.897 meters*	27.737	91.0	2.800	10.92	7.39
11.202 meters*	28.042	92.0	2.898	10.56	7.20
11.507 meters*	28.347	93.0	2.995	10.21	7.02
11.811 meters*	28.652	94.0	3.093	9.89	6.85
12.116 meters*	28.956	95.0	3.190	9.59	6.70
12.421 meters*	29.261	96.0	3.288	9.30	6.55
12.726 meters*	29.566	97.0	3.385	9.04	6.42
13.031 meters*	29.871	98.0	3.483	8.78	6.29
13.335 meters*	30.176	99.0	3.580	8.54	6.17
13.640 meters*	30.480	100.0	3.678	8.32	6.06
13.945 meters*	30.785	101.0	3.776	8.10	5.95
14.250 meters*	31.090	102.0	3.873	7.90	5.85
14.555 meters*	31.395	103.0	3.971	7.70	5.75
14.859 meters*	31.700	104.0	4.068	7.52	5.66
15.164 meters*	32.004	105.0	4.166	7.34	5.58
15.469 meters*	32.309	106.0	4.263	7.17	5.49
15.774 meters*	32.614	107.0	4.361	7.01	5.42
16.079 meters*	32.919	108.0	4.458	6.86	5.34
16.383 meters*	33.224	109.0	4.556	6.71	5.27
16.688 meters*	33.528	110.0	4.653	6.57	5.20
19.736 meters*	36.576	120.0	5.629	5.43	4.66
20.041 meters*	36.881	121.0	5.726	5.34	4.62
20.346 meters*	37.186	122.0	5.824	5.25	4.58
20.651 meters*	37.491	123.0	5.921	5.17	4.54
20.955 meters*	37.796	124.0	6.019	5.08	4.50
21.260 meters*	38.100	125.0	6.116	5.00	4.46
21.565 meters*	38.405	126.0	6.214	4.92	4.42
21.870 meters*	38.710	127.0	6.311	4.85	4.39

Combined Plume Method

Stack Distances (ft)	Number of Stacks
17.98	22

ft	m/s	merged cells	Plume Diamter Feet
60	-80.55	1.00	-0.73
69	27.74	1.00	2.15
70	24.21	1.00	2.47
71	21.50	1.00	2.79
72	19.36	1.00	3.11
73	17.62	1.00	3.43
74	16.19	1.00	3.75
75	14.99	1.00	4.07
76	13.96	1.00	4.39
77	13.08	1.00	4.71
78	12.32	1.00	5.03
79	11.65	1.00	5.35
80	11.06	1.00	5.67
81	10.53	1.00	5.99
82	10.07	1.00	6.31
83	9.64	1.00	6.63
84	9.26	1.00	6.95
85	8.92	1.00	7.27
86	8.61	1.00	7.59
87	8.32	1.00	7.91
88	8.06	1.00	8.23
89	7.82	1.00	8.55
90	7.59	1.00	8.87
91	7.39	1.00	9.19
92	7.20	1.00	9.51
93	7.02	1.00	9.83
94	6.85	1.00	10.15
95	6.70	1.00	10.47
96	6.55	1.00	10.79
97	6.42	1.00	11.11
98	6.29	1.00	11.43
99	6.17	1.00	11.75
100	6.06	1.00	12.07
101	5.95	1.00	12.39
102	5.85	1.00	12.71
103	5.75	1.00	13.03
104	5.66	1.00	13.35
105	5.58	1.00	13.67
106	5.49	1.00	13.99
107	5.42	1.00	14.31
108	5.34	1.00	14.63
109	5.27	1.00	14.95
110	5.21	1.01	15.27
120	4.86	1.18	18.47
121	4.84	1.20	18.79
122	4.81	1.22	19.11
123	4.78	1.24	19.43
124	4.76	1.26	19.75
125	4.74	1.27	20.07
126	4.71	1.29	20.39
127	4.69	1.31	20.71

EDGs - 30F, 100% Load

22.175 meters*	39.015	128.0	6.409	4.77	4.35
22.479 meters*	39.320	129.0	6.507	4.70	4.32
22.784 meters*	39.624	130.0	6.604	4.63	4.29
25.832 meters*	42.673	140.0	7.579	4.04	4.01
28.880 meters*	45.721	150.0	8.555	3.58	3.79
31.928 meters*	48.769	160.0	9.530	3.21	3.62
34.976 meters*	51.817	170.0	10.506	2.91	3.47
38.024 meters*	54.865	180.0	11.481	2.66	3.35
41.072 meters*	57.913	190.0	12.456	2.46	3.24
44.121 meters*	60.961	200.0	13.432	2.28	3.15
74.601 meters*	91.441	300.0	23.185	1.32	2.58
105.081 meters*	121.921	400.0	32.939	0.93	2.28
135.562 meters*	152.402	500.0	42.693	0.72	2.09
166.042 meters*	182.882	600.0	52.447	0.58	1.95
196.522 meters*	213.363	700.0	62.200	0.49	1.84
227.003 meters*	243.843	800.0	71.954	0.43	1.75
257.483 meters*	274.323	900.0	81.708	0.37	1.68
287.964 meters*	304.804	1000.0	91.461	0.33	1.62

128	4.67	1.33	21.03
129	4.65	1.34	21.35
130	4.63	1.36	21.67
140	4.47	1.54	24.87
150	4.34	1.72	28.07
160	4.24	1.90	31.27
170	4.17	2.07	34.47
180	4.10	2.25	37.67
190	4.05	2.43	40.87
200	4.00	2.61	44.07
300	3.73	4.39	76.07
400	3.60	6.17	108.07
500	3.51	7.95	140.07
600	3.44	9.73	172.07
700	3.39	11.51	204.07
800	3.35	13.29	236.07
900	3.31	15.07	268.07
1,000	3.28	16.85	300.07

EDGs - 59F, 100% Load

PETER BEST PAPER ILLUSTRATIVE EXAMPLE - SINGLE TURBINE - Assumes Heights in Table 2 are meters above ground

Plume Averaged Vertical Velocities: **"*Aviation Safety and Buoyant Plumes*," Peter Best, et. al.**

Ambient Conditions:

Ambient Potential Temp θ_a	**288**	Kelvins	**59.0**	°F	Constants:	
					Assume neutral conditions ($d\theta/dz=0$)	
Plume Exit Conditions:					Gravity g	9.81 m/s^2
Stack Height h_s	**16.84**	meters	**55.2**	feet	λ	1.11
Stack Diameter D	**0.86**	meters	**2.8**	feet		0.3048 meters/feet
Stack Velocity V_{exit}	**35.5**	m/s	**116.4**	ft/sec		
Volumetric Flow	**21**	cu.m/sec	**44,497**	ACFM	$\pi V_{exit}D^2/4$	Sect.2/¶1
Stack Potential Temp θ_s	**752**	Kelvins	**893**	°F	Back-Calc'd from Buoyancy Flux	
Initial Stack Buoyancy Flux F_o	**40**	m^4/s^3			$gV_{exit}D^2(1-\theta_a/\theta_s)/4$ = Vol.Flow$(g/\pi)(1-\theta_a/\theta_s)$	Sect.2/¶1
Plume Buoyancy Flux F	N/A	m^4/s^3			$\lambda^2 gVa^2(1-\theta_a/\theta_p)$ for a,V,θ_p at plume height (not used here)	

Conditions at End (Top) of Jet Phase:

Height above Stack z	**5.388**	meters*	**17.7**	feet*	6.25D, meters*=meters above stack top		Sect.3/¶1
Height above Ground $z+h_s$	**22.228**	meters	**72.9**	feet	h_s + 6.25D		"
Vertical Velocity V_{plume}	**17.740**	m/s	**58.20**	ft/sec	$0.5V_{exit}$	$V_{exit}/2$	"
Plume Top-Hat Diameter 2a	**1.724**	meters	**5.7**	feet	2D	Conservation of momentum	"

Spillane Methodology - Analytical Solutions for Calm Conditions for Plume Heights above Jet Phase

Plume Top-Hat Radius a	**Solutions in Table Below**				$0.16(z-z_v)$, or linear increase with height	Sect.2/Eq.6
Virtual Source Height z_v	**2.052**	meters*	**6.7**	feet*	$6.25D[1-(\theta_e/\theta_s)^{1/2}]$, meters*=meters above stack top	Sect.2/Eq.6
Height above Ground z_v+h_s	**18.892**	meters	**62.0**	feet	where $(\theta_a/\theta_s)^{1/2} = (\theta_e/\theta_s)^{1/2}$=	0.619203299

Method(1): Simplified Plume-averaged Vertical Velocity V' - Assumes Product Va constant above jet phase such that $V_{plume}(2a) = V_{exit}D$

Vertical Velocity V'	**Solutions in Table Below**	$V_{exit}D/2a'$ (conservation of buoyancy)	Sect.3&4

Method(2): Plume-averaged Vertical Velocity V given by Analytical Solution in Paper where Product Va given by equations below:

Vertical Velocity V	**Solutions in Table Below**		$\{(Va)_o^3 + 0.12F_o[(z-z_v)^2 - (6.25D-z_v)^2]\}^{(1/3)} / a$	Sect.2.1(6)
Product $(Va)_o$	**9.470**	m^2/s	$V_{exit}D/2(\theta_e/\theta_s)^{1/2}$	

Table of plume Top-Hat Diameters (2a) and Plume-averaged Vertical Velocities for both Method(1) (assuming conservation of buoyancy & gaussian distribution of vertical velocities) and Method (2) (based on Peter Best's paper's Analytical Solution) starting at end of jet phase:

from 100 meters above ground in increments of 50.0 meters

				Vert.Vel (m/s)	
				Method(1)	Method(2)
Ht above Ground =		$h_{plume}+h_s$	$D_{plume}=2a=$	$V_{plume}=$	$\{(Va)_o^3+0.12F_o[(z-z_v)^2$
Height above stack top, meters*	meters	feet	$2*0.16(z-z_v)$	$V_{exit}*D/2a$	$-(6.25D-z_v)^2]\}^{1/3}$ / a
End of jet phase at 6.25D = 5.388 meters*	***22.228***	***72.9***	***1.724***		***17.74***
83.160 meters*	**100.000**	328.1	25.955	1.18	**2.45**
133.160 meters*	150.000	492.1	41.955	0.73	2.08
183.160 meters*	**200.000**	656.2	57.955	0.53	**1.86**
233.160 meters*	250.000	820.2	73.955	0.41	1.72
283.160 meters*	**300.000**	984.3	89.955	0.34	**1.61**
333.160 meters*	350.000	1148.3	105.955	0.29	1.52
383.160 meters*	400.000	1312.3	121.955	0.25	1.45
433.160 meters*	450.000	1476.4	137.955	0.22	1.39
483.160 meters*	**500.000**	1640.4	153.955	0.20	**1.34**
533.160 meters*	550.000	1804.5	169.955	0.18	1.30
583.160 meters*	600.000	1968.5	185.955	0.16	1.26
633.160 meters*	650.000	2132.5	201.955	0.15	1.23
683.160 meters*	**700.000**	2296.6	217.955	0.14	**1.20**
733.160 meters*	750.000	2460.6	233.955	0.13	1.17
783.160 meters*	800.000	2624.7	249.955	0.12	1.14
833.160 meters*	850.000	2788.7	265.955	0.12	1.12
883.160 meters*	900.000	2952.8	281.955	0.11	1.10
933.160 meters*	950.000	3116.8	297.955	0.10	1.08
983.160 meters*	**1000.000**	3280.8	313.955	0.10	**1.06**
1033.160 meters*	1050.000	3444.9	329.955	0.09	1.04
1083.160 meters*	1100.000	3608.9	345.955	0.09	1.03
1133.160 meters*	1150.000	3773.0	361.955	0.08	1.01
1183.160 meters*	1200.000	3937.0	377.955	0.08	1.00
1233.160 meters*	1250.000	4101.0	393.955	0.08	0.98

EDGs - 59F, 100% Load

	m	ft		Method(1) m/s	Method(2) m/s
1.448 meters*	18.288	60.0	-0.193	-158.31	-96.00
4.496 meters*	21.336	70.0	0.782	39.11	23.98
7.544 meters*	24.384	80.0	1.758	17.40	11.15
10.592 meters*	27.432	90.0	2.733	11.19	7.66
10.897 meters*	27.737	91.0	2.830	10.81	7.45
11.202 meters*	28.042	92.0	2.928	10.45	7.25
11.507 meters*	28.347	93.0	3.026	10.11	7.07
11.811 meters*	28.652	94.0	3.123	9.79	6.90
12.116 meters*	28.956	95.0	3.221	9.50	6.74
12.421 meters*	29.261	96.0	3.318	9.22	6.60
12.726 meters*	29.566	97.0	3.416	8.96	6.46
13.031 meters*	29.871	98.0	3.513	8.71	6.33
13.335 meters*	30.176	99.0	3.611	8.47	6.20
13.640 meters*	30.480	100.0	3.708	8.25	6.09
13.945 meters*	30.785	101.0	3.806	8.04	5.98
14.250 meters*	31.090	102.0	3.903	7.84	5.88
14.555 meters*	31.395	103.0	4.001	7.65	5.78
14.859 meters*	31.700	104.0	4.098	7.46	5.68
15.164 meters*	32.004	105.0	4.196	7.29	5.60
15.469 meters*	32.309	106.0	4.293	7.12	5.51
15.774 meters*	32.614	107.0	4.391	6.97	5.43
16.079 meters*	32.919	108.0	4.489	6.81	5.36
16.383 meters*	33.224	109.0	4.586	6.67	5.28
16.688 meters*	33.528	110.0	4.684	6.53	5.21
19.736 meters*	36.576	120.0	5.659	5.41	4.66
20.041 meters*	36.881	121.0	5.757	5.31	4.62
20.346 meters*	37.186	122.0	5.854	5.23	4.57
20.651 meters*	37.491	123.0	5.952	5.14	4.53
20.955 meters*	37.796	124.0	6.049	5.06	4.49
21.260 meters*	38.100	125.0	6.147	4.98	4.45
22.784 meters*	39.624	130.0	6.634	4.61	4.28
25.832 meters*	42.673	140.0	7.610	4.02	3.99
28.880 meters*	45.721	150.0	8.585	3.56	3.77
44.121 meters*	60.961	200.0	13.462	2.27	3.12
74.601 meters*	91.441	300.0	23.216	1.32	2.55
105.081 meters*	121.921	400.0	32.969	0.93	2.26
135.562 meters*	152.402	500.0	42.723	0.72	2.07
166.042 meters*	182.882	600.0	52.477	0.58	1.93
196.522 meters*	213.363	700.0	62.231	0.49	1.82
227.003 meters*	243.843	800.0	71.984	0.42	1.73
257.483 meters*	274.323	900.0	81.738	0.37	1.66
287.964 meters*	304.804	1000.0	91.492	0.33	1.60

Combined Plume Method

ft	m/s	merged cells
60	-96.00	1.00
70	23.98	1.00
80	11.15	1.00
90	7.66	1.00
91	7.45	1.00
92	7.25	1.00
93	7.07	1.00
94	6.90	1.00
95	6.74	1.00
96	6.60	1.00
97	6.46	1.00
98	6.33	1.00
99	6.20	1.00
100	6.09	1.00
101	5.98	1.00
102	5.88	1.00
103	5.78	1.00
104	5.68	1.00
105	5.60	1.00
106	5.51	1.00
107	5.43	1.00
108	5.36	1.00
109	5.28	1.00
110	5.23	1.01
120	4.87	1.19
121	4.84	1.21
122	4.81	1.23
123	4.78	1.24
124	4.76	1.26
125	4.73	1.28
130	4.62	1.37
140	4.45	1.55
150	4.32	1.72
200	3.97	2.61
300	3.69	4.39
400	3.56	6.17
500	3.47	7.95
600	3.41	9.73
700	3.35	11.51
800	3.31	13.29
900	3.27	15.07
1,000	3.24	16.85

Stack Distances (ft)	Number of Stacks
17.98	22

EDGs - 76F, 100% Load

PETER BEST PAPER ILLUSTRATIVE EXAMPLE - SINGLE TURBINE - Assumes Heights in Table 2 are meters above ground

Plume Averaged Vertical Velocities: **"*Aviation Safety and Buoyant Plumes*," Peter Best, et. al.**

Ambient Conditions:

Ambient Potential Temp θ_a	**298**	Kelvins	**76.0**	°F	Constants:	
					Assume neutral conditions ($d\theta/dz=0$)	
Plume Exit Conditions:					Gravity g	9.81 m/s^2
Stack Height h_s	**16.84**	meters	**55.2**	feet	λ	1.11
Stack Diameter D	**0.86**	meters	**2.8**	feet		0.3048 meters/feet
Stack Velocity V_{exit}	**35.5**	m/s	**116.4**	ft/sec		
Volumetric Flow	**21**	cu.m/sec	**44,497**	ACFM	$\pi V_{exit}D^2/4$	Sect.2/¶1
Stack Potential Temp θ_s	**752**	Kelvins	**893**	°F	Back-Calc'd from Buoyancy Flux	
Initial Stack Buoyancy Flux F_o	**39**	m^4/s^3			$gV_{exit}D^2(1-\theta_a/\theta_s)/4$ = Vol.Flow$(g/\pi)(1-\theta_a/\theta_s)$	Sect.2/¶1
Plume Buoyancy Flux F	N/A	m^4/s^3			$\lambda^2 gVa^2(1-\theta_a/\theta_p)$ for a,V,θ_p at plume height (not used here)	

Conditions at End (Top) of Jet Phase:

Height above Stack z	**5.388**	meters*	**17.7**	feet*	6.25D, meters*=meters above stack top		Sect.3/¶1
Height above Ground $z+h_s$	**22.228**	meters	**72.9**	feet	h_s + 6.25D		"
Vertical Velocity V_{plume}	**17.740**	m/s	**58.20**	ft/sec	$0.5V_{exit}$	$V_{exit}/2$	"
Plume Top-Hat Diameter 2a	**1.724**	meters	**5.7**	feet	2D	Conservation of momentum	"

Spillane Methodology - Analytical Solutions for Calm Conditions for Plume Heights above Jet Phase

Plume Top-Hat Radius a	**Solutions in Table Below**				$0.16(z-z_v)$, or linear increase with height	Sect.2/Eq.6
Virtual Source Height z_v	**1.998**	meters*	**6.6**	feet*	$6.25D[1-(\theta_e/\theta_s)^{1/2}]$, meters*=meters above stack top	Sect.2/Eq.6
Height above Ground z_v+h_s	**18.838**	meters	**61.8**	feet	where $(\theta_a/\theta_s)^{1/2} = (\theta_e/\theta_s)^{1/2}$=	0.629269032

Method(1): Simplified Plume-averaged Vertical Velocity V' - Assumes Product Va constant above jet phase such that $V_{plume}(2a) = V_{exit}D$

Vertical Velocity V'	**Solutions in Table Below**	$V_{exit}D/2a'$ (conservation of buoyancy)	Sect.3&4

Method(2): Plume-averaged Vertical Velocity V given by Analytical Solution in Paper where Product Va given by equations below:

Vertical Velocity V	**Solutions in Table Below**		$\{(Va)_o^3 + 0.12F_o[(z-z_v)^2 - (6.25D-z_v)^2]\}^{(1/3)} / a$	Sect.2.1(6)
Product $(Va)_o$	**9.624**	m^2/s	$V_{exit}D/2(\theta_e/\theta_s)^{1/2}$	

Table of plume Top-Hat Diameters (2a) and Plume-averaged Vertical Velocities for both Method(1) (assuming conservation of buoyancy & gaussian distribution of vertical velocities) and Method (2) (based on Peter Best's paper's Analytical Solution) starting at end of jet phase:

from 100 meters above ground in increments of 50.0 meters

				Vert.Vel (m/s)	
				Method(1)	Method(2)
	Ht above Ground =	$h_{plume}+h_s$	$D_{plume}=2a=$	$V_{plume}=$	$\{(Va)_o^3+0.12F_o[(z-z_v)^2$
Height above stack top, meters*	meters	feet	$2*0.16(z-z_v)$	$V_{exit}*D/2a$	$-(6.25D-z_v)^2]\}^{1/3}$ / a
End of jet phase at 6.25D = 5.388 meters*	***22.228***	***72.9***	***1.724***		***17.74***
83.160 meters*	**100.000**	328.1	25.972	1.18	**2.44**
133.160 meters*	150.000	492.1	41.972	0.73	2.07
183.160 meters*	**200.000**	656.2	57.972	0.53	**1.85**
233.160 meters*	250.000	820.2	73.972	0.41	1.71
283.160 meters*	**300.000**	984.3	89.972	0.34	**1.60**
333.160 meters*	350.000	1148.3	105.972	0.29	1.51
383.160 meters*	400.000	1312.3	121.972	0.25	1.44
433.160 meters*	450.000	1476.4	137.972	0.22	1.39
483.160 meters*	**500.000**	1640.4	153.972	0.20	**1.34**
533.160 meters*	550.000	1804.5	169.972	0.18	1.29
583.160 meters*	600.000	1968.5	185.972	0.16	1.25
633.160 meters*	650.000	2132.5	201.972	0.15	1.22
683.160 meters*	**700.000**	2296.6	217.972	0.14	**1.19**
733.160 meters*	750.000	2460.6	233.972	0.13	1.16
783.160 meters*	800.000	2624.7	249.972	0.12	1.14
833.160 meters*	850.000	2788.7	265.972	0.12	1.11
883.160 meters*	900.000	2952.8	281.972	0.11	1.09
933.160 meters*	950.000	3116.8	297.972	0.10	1.07
983.160 meters*	**1000.000**	3280.8	313.972	0.10	**1.05**
1033.160 meters*	1050.000	3444.9	329.972	0.09	1.04
1083.160 meters*	1100.000	3608.9	345.972	0.09	1.02
1133.160 meters*	1150.000	3773.0	361.972	0.08	1.00
1183.160 meters*	1200.000	3937.0	377.972	0.08	0.99
1233.160 meters*	1250.000	4101.0	393.972	0.08	0.98

EDGs - 76F, 100% Load

	m	ft		Method(1) m/s	Method(2) m/s
1.448 meters*	18.288	60.0	-0.176	-173.93	-107.26
4.496 meters*	21.336	70.0	0.800	38.26	23.85
7.544 meters*	24.384	80.0	1.775	17.23	11.20
10.592 meters*	27.432	90.0	2.750	11.12	7.69
10.897 meters*	27.737	91.0	2.848	10.74	7.48
11.202 meters*	28.042	92.0	2.945	10.39	7.28
11.507 meters*	28.347	93.0	3.043	10.05	7.10
11.811 meters*	28.652	94.0	3.140	9.74	6.93
12.116 meters*	28.956	95.0	3.238	9.45	6.77
12.421 meters*	29.261	96.0	3.335	9.17	6.62
12.726 meters*	29.566	97.0	3.433	8.91	6.48
13.031 meters*	29.871	98.0	3.531	8.66	6.35
13.335 meters*	30.176	99.0	3.628	8.43	6.23
13.640 meters*	30.480	100.0	3.726	8.21	6.11
13.945 meters*	30.785	101.0	3.823	8.00	6.00
14.250 meters*	31.090	102.0	3.921	7.80	5.89
14.555 meters*	31.395	103.0	4.018	7.61	5.79
14.859 meters*	31.700	104.0	4.116	7.43	5.70
15.164 meters*	32.004	105.0	4.213	7.26	5.61
15.469 meters*	32.309	106.0	4.311	7.10	5.52
15.774 meters*	32.614	107.0	4.408	6.94	5.44
16.079 meters*	32.919	108.0	4.506	6.79	5.37
16.383 meters*	33.224	109.0	4.603	6.64	5.29
16.688 meters*	33.528	110.0	4.701	6.51	5.22
19.736 meters*	36.576	120.0	5.676	5.39	4.66
20.041 meters*	36.881	121.0	5.774	5.30	4.61
20.346 meters*	37.186	122.0	5.871	5.21	4.57
20.651 meters*	37.491	123.0	5.969	5.12	4.53
20.955 meters*	37.796	124.0	6.067	5.04	4.49
21.260 meters*	38.100	125.0	6.164	4.96	4.45
44.121 meters*	60.961	200.0	13.479	2.27	3.10
74.601 meters*	91.441	300.0	23.233	1.32	2.54
105.081 meters*	121.921	400.0	32.987	0.93	2.24
135.562 meters*	152.402	500.0	42.741	0.72	2.05
166.042 meters*	182.882	600.0	52.494	0.58	1.92
196.522 meters*	213.363	700.0	62.248	0.49	1.81
227.003 meters*	243.843	800.0	72.002	0.42	1.72
257.483 meters*	274.323	900.0	81.755	0.37	1.65
287.964 meters*	304.804	1000.0	91.509	0.33	1.59

Combined Plume Method

ft	m/s	merged cells
60	-107.26	1.00
70	23.85	1.00
80	11.20	1.00
90	7.69	1.00
91	7.48	1.00
92	7.28	1.00
93	7.10	1.00
94	6.93	1.00
95	6.77	1.00
96	6.62	1.00
97	6.48	1.00
98	6.35	1.00
99	6.23	1.00
100	6.11	1.00
101	6.00	1.00
102	5.89	1.00
103	5.79	1.00
104	5.70	1.00
105	5.61	1.00
106	5.52	1.00
107	5.44	1.00
108	5.37	1.00
109	5.29	1.00
110	5.24	1.02
120	4.87	1.19
121	4.84	1.21
122	4.81	1.23
123	4.78	1.25
124	4.76	1.26
125	4.73	1.28
200	3.95	2.62
300	3.67	4.40
400	3.54	6.18
500	3.45	7.96
600	3.38	9.74
700	3.33	11.52
800	3.29	13.30
900	3.25	15.08
1,000	3.22	16.86

Stack Distances (ft)	Number of Stacks
17.98	22

CHILLERS - 30F, 100% Load

PETER BEST PAPER ILLUSTRATIVE EXAMPLE - SINGLE TURBINE - Assumes Heights in Table 2 are meters above ground

Plume Averaged Vertical Velocities: **"*Aviation Safety and Buoyant Plumes*," Peter Best, et. al.**

Ambient Conditions:

Ambient Potential Temp θ_a	**272**	Kelvins	**30.0**	°F	Constants: Assume neutral conditions ($d\theta/dz=0$)	
Plume Exit Conditions:					Gravity g 9.81 m/s^2	
Stack Height h_s	**33.43**	meters	**109.7**	feet	λ 1.11	
Stack Diameter D	**0.91**	meters	**3.0**	feet	0.3048 meters/feet	
Stack Velocity V_{exit}	**10.2**	m/s	**33.3**	ft/sec		
Volumetric Flow	**7**	cu.m/sec	**14,130**	ACFM	$\pi V_{exit}D^2/4$	Sect.2/¶1
Stack Potential Temp θ_s	**325**	Kelvins	**125**	°F	Back-Calc'd from Buoyancy Flux	
Initial Stack Buoyancy Flux F_o	**3**	m^4/s^3			$gV_{exit}D^2(1-\theta_a/\theta_s)/4$ = Vol.Flow$(g/\pi)(1-\theta_a/\theta_s)$	Sect.2/¶1
Plume Buoyancy Flux F	N/A	m^4/s^3			$\lambda^2 gVa^2(1-\theta_a/\theta_p)$ for a,V,θ_p at plume height (not used here)	

Conditions at End (Top) of Jet Phase:

Height above Stack z	**5.715**	meters*	**18.8**	feet*	6.25D, meters*=meters above stack top		Sect.3/¶1
Height above Ground $z+h_s$	**39.142**	meters	**128.4**	feet	h_s + 6.25D		"
Vertical Velocity V_{plume}	**5.077**	m/s	**16.66**	ft/sec	$0.5V_{exit}$	$V_{exit}/2$	"
Plume Top-Hat Diameter 2a	**1.829**	meters	**6.0**	feet	2D	Conservation of mc	"

Spillane Methodology - Analytical Solutions for Calm Conditions for Plume Heights above Jet Phase

Plume Top-Hat Radius a	**Solutions in Table Below**				$0.16(z-z_v)$, or linear increase with height	Sect.2/Eq.6
Virtual Source Height z_v	**0.485**	meters*	**1.6**	feet*	$6.25D[1-(\theta_e/\theta_s)^{1/2}]$, meters*=meters above s	Sect.2/Eq.6
Height above Ground z_v+h_s	**33.912**	meters	**111.3**	feet	where $(\theta_a/\theta_s)^{1/2} = (\theta_e/\theta_s)^{1/2}$=	0.915158554

Method(1): Simplified Plume-averaged Vertical Velocity V' - Assumes Product Va constant above jet phase such that $V_{plume}(2a) = V_{exit}D$

Vertical Velocity V'	**Solutions in Table Below**				$V_{exit}D/2a'$ (conservation of buoyancy)	Sect.3&4

Method(2): Plume-averaged Vertical Velocity V given by Analytical Solution in Paper where Product Va given by equations below:

Vertical Velocity V	**Solutions in Table Below**				$\{(Va)_o^3 + 0.12F_o [(z-z_v)^2 - (6.25D-z_v)^2]\}^{(1/3)}$ /	Sect.2.1(6)
Product $(Va)_o$	**4.249**	m^2/s			$V_{exit}D/2(\theta_e/\theta_s)^{1/2}$	

CHILLERS - 30F, 100% Load

Table of plume Top-Hat Diameters (2a) and Plume-averaged Vertical Velocities for both Method(1) (assuming conservation of buoyancy & gaussian distribution of vertical velocities) and Method (2) (based on Peter Best's paper's Analytical Solution) starting at end of jet phase:

from 100 meters above ground in increments of 50.0 meters

				Vert.Vel (m/s)	
				Method(1)	**Method(2)**
Ht above Ground =		$h_{plume}+h_s$	$D_{plume}=2a=$	$V_{plume}=$	$\{(Va)_o^3+0.12F_o[(z-z_v)^2$
Height above stack top, meters*	meters	feet	$2*0.16(z-z_v)$	$V_{exit}*D/2a$	$-(6.25D-z_v)^2]\}^{1/3}$ / a
End of jet phase at 6.25D = 5.715 meters*	***39.142***	***128.4***	***1.829***		***5.08***
66.573 meters*	**100.000**	328.1	21.148	0.44	**1.16**
116.573 meters*	150.000	492.1	37.148	0.25	0.95
166.573 meters*	**200.000**	656.2	53.148	0.17	**0.84**
216.573 meters*	250.000	820.2	69.148	0.13	0.77
266.573 meters*	**300.000**	984.3	85.148	0.11	**0.72**
316.573 meters*	350.000	1148.3	101.148	0.09	0.68
366.573 meters*	400.000	1312.3	117.148	0.08	0.65
416.573 meters*	450.000	1476.4	133.148	0.07	0.62
466.573 meters*	**500.000**	1640.4	149.148	0.06	**0.60**
516.573 meters*	550.000	1804.5	165.148	0.06	0.58
566.573 meters*	600.000	1968.5	181.148	0.05	0.56
616.573 meters*	650.000	2132.5	197.148	0.05	0.54
666.573 meters*	**700.000**	2296.6	213.148	0.04	**0.53**
716.573 meters*	750.000	2460.6	229.148	0.04	0.52
766.573 meters*	800.000	2624.7	245.148	0.04	0.51
816.573 meters*	850.000	2788.7	261.148	0.04	0.50
866.573 meters*	900.000	2952.8	277.148	0.03	0.49
916.573 meters*	950.000	3116.8	293.148	0.03	0.48
966.573 meters*	**1000.000**	3280.8	309.148	0.03	**0.47**
1016.573 meters*	1050.000	3444.9	325.148	0.03	0.46
1066.573 meters*	1100.000	3608.9	341.148	0.03	0.45
1116.573 meters*	1150.000	3773.0	357.148	0.03	0.45
1166.573 meters*	1200.000	3937.0	373.148	0.02	0.44
1216.573 meters*	1250.000	4101.0	389.148	0.02	0.43

CHILLERS - 30F, 100% Load

	m	ft		Method(1) m/s	Method(2) m/s
3.150 meters*	36.576	120.0	0.853	10.89	9.60
3.454 meters*	36.881	121.0	0.950	9.77	8.64
3.759 meters*	37.186	122.0	1.048	8.86	7.86
4.064 meters*	37.491	123.0	1.145	8.11	7.22
4.369 meters*	37.796	124.0	1.243	7.47	6.69
4.674 meters*	38.100	125.0	1.340	6.93	6.23
4.978 meters*	38.405	126.0	1.438	6.46	5.83
5.283 meters*	38.710	127.0	1.535	6.05	5.49
5.588 meters*	39.015	128.0	1.633	5.69	5.19
5.893 meters*	39.320	129.0	1.731	5.37	4.93
6.198 meters*	39.624	130.0	1.828	5.08	4.69
6.502 meters*	39.929	131.0	1.926	4.82	4.48
6.807 meters*	40.234	132.0	2.023	4.59	4.29
7.112 meters*	40.539	133.0	2.121	4.38	4.12
7.417 meters*	40.844	134.0	2.218	4.19	3.97
7.722 meters*	41.149	135.0	2.316	4.01	3.82
8.026 meters*	41.453	136.0	2.413	3.85	3.70
8.331 meters*	41.758	137.0	2.511	3.70	3.58
8.636 meters*	42.063	138.0	2.608	3.56	3.47
8.941 meters*	42.368	139.0	2.706	3.43	3.37
9.246 meters*	42.673	140.0	2.803	3.31	3.28
9.551 meters*	42.977	141.0	2.901	3.20	3.19
9.855 meters*	43.282	142.0	2.999	3.10	3.11
10.160 meters*	43.587	143.0	3.096	3.00	3.03
10.465 meters*	43.892	144.0	3.194	2.91	2.96
10.770 meters*	44.197	145.0	3.291	2.82	2.90
11.075 meters*	44.501	146.0	3.389	2.74	2.84
11.379 meters*	44.806	147.0	3.486	2.66	2.78
11.684 meters*	45.111	148.0	3.584	2.59	2.73
11.989 meters*	45.416	149.0	3.681	2.52	2.67
12.294 meters*	45.721	150.0	3.779	2.46	2.63
27.534 meters*	60.961	200.0	8.656	1.07	1.65
58.014 meters*	91.441	300.0	18.409	0.50	1.22
88.495 meters*	121.921	400.0	28.163	0.33	1.05
118.975 meters*	152.402	500.0	37.917	0.24	0.95
149.455 meters*	182.882	600.0	47.671	0.19	0.88
179.936 meters*	213.363	700.0	57.424	0.16	0.82
210.416 meters*	243.843	800.0	67.178	0.14	0.78
240.897 meters*	274.323	900.0	76.932	0.12	0.74
271.377 meters*	304.804	1000.0	86.685	0.11	0.72

Combined Plume Method

Stack Distances (ft)	Number of Stacks
3.67	1248

ft	m/s	merged cells	Plume Diamter Feet
120	10.76	1.58	2.80
121	9.82	1.67	3.12
122	9.05	1.76	3.44
123	8.42	1.84	3.76
124	7.88	1.93	4.08
125	7.42	2.02	4.40
126	7.03	2.10	4.72
127	6.68	2.19	5.04
128	6.38	2.28	5.36
129	6.11	2.37	5.68
130	5.87	2.45	6.00
131	5.66	2.54	6.32
132	5.46	2.63	6.64
133	5.29	2.72	6.96
134	5.13	2.80	7.28
135	4.99	2.89	7.60
136	4.85	2.98	7.92
137	4.73	3.06	8.24
138	4.62	3.15	8.56
139	4.52	3.24	8.88
140	4.42	3.33	9.20
141	4.33	3.41	9.52
142	4.25	3.50	9.84
143	4.18	3.59	10.16
144	4.10	3.68	10.48
145	4.04	3.76	10.80
146	3.97	3.85	11.12
147	3.92	3.94	11.44
148	3.86	4.02	11.76
149	3.81	4.11	12.08
150	3.76	4.20	12.40
200	2.82	8.56	28.40
300	2.48	17.29	60.40
400	2.37	26.02	92.40
500	2.30	34.74	124.40
600	2.25	43.47	156.40
700	2.21	52.20	188.40
800	2.18	60.93	220.40
900	2.15	69.65	252.40
1,000	2.13	78.38	284.40

CHILLERS - 59F, 100% Load

PETER BEST PAPER ILLUSTRATIVE EXAMPLE - SINGLE TURBINE - Assumes Heights in Table 2 are meters above ground

Plume Averaged Vertical Velocities: **"*Aviation Safety and Buoyant Plumes*," Peter Best, et. al.**

Ambient Conditions:

Ambient Potential Temp θ_a	**288**	Kelvins	**59.0**	°F	Constants:	
					Assume neutral conditions (dθ/dz=0)	
Plume Exit Conditions:					Gravity g 9.81 m/s^2	
Stack Height h_s	**33.43**	meters	**109.7**	feet	λ 1.11	
Stack Diameter D	**0.91**	meters	**3.0**	feet	0.3048 meters/feet	
Stack Velocity V_{exit}	**10.2**	m/s	**33.3**	ft/sec		
Volumetric Flow	**7**	cu.m/sec	**14,130**	ACFM	$\pi V_{exit}D^2/4$	Sect.2/¶1
Stack Potential Temp θ_s	**325**	Kelvins	**125**	°F	Back-Calc'd from Buoyancy Flux	
Initial Stack Buoyancy Flux F_o	**2**	m^4/s^3			$gV_{exit}D^2(1-\theta_a/\theta_s)/4$ = Vol.Flow$(g/\pi)(1-\theta_a/\theta_s)$	Sect.2/¶1
Plume Buoyancy Flux F	N/A	m^4/s^3			$\lambda^2 gVa^2(1-\theta_a/\theta_p)$ for a,V,θ_p at plume height (not used here)	

Conditions at End (Top) of Jet Phase:

Height above Stack z	**5.715**	meters*	**18.8**	feet*	6.25D, meters*=meters above stack top		Sect.3/¶1
Height above Ground $z+h_s$	**39.142**	meters	**128.4**	feet	h_s + 6.25D		"
Vertical Velocity V_{plume}	**5.077**	m/s	**16.66**	ft/sec	$0.5V_{exit}$	$V_{exit}/2$	"
Plume Top-Hat Diameter 2a	**1.829**	meters	**6.0**	feet	2D	Conservation of mc	"

Spillane Methodology - Analytical Solutions for Calm Conditions for Plume Heights above Jet Phase

Plume Top-Hat Radius a	**Solutions in Table Below**				$0.16(z-z_v)$, or linear increase with height	Sect.2/Eq.6
Virtual Source Height z_v	**0.332**	meters*	**1.1**	feet*	$6.25D[1-(\theta_e/\theta_s)^{1/2}]$, meters*=meters above s	Sect.2/Eq.6
Height above Ground z_v+h_s	**33.759**	meters	**110.8**	feet	where $(\theta_a/\theta_s)^{1/2} = (\theta_e/\theta_s)^{1/2}$=	0.941868255

Method(1): Simplified Plume-averaged Vertical Velocity V' - Assumes Product Va constant above jet phase such that $V_{plume}(2a) = V_{exit}D$

Vertical Velocity V'	**Solutions in Table Below**	$V_{exit}D/2a'$ (conservation of buoyancy)	Sect.3&4

Method(2): Plume-averaged Vertical Velocity V given by Analytical Solution in Paper where Product Va given by equations below:

Vertical Velocity V	**Solutions in Table Below**		$\{(Va)_o^3 + 0.12F_o [(z-z_v)^2 - (6.25D-z_v)^2]\}^{(1/3)}$ /	Sect.2.1(6)
Product $(Va)_o$	**4.373**	m^2/s	$V_{exit}D/2(\theta_e/\theta_s)^{1/2}$	

CHILLERS - 59F, 100% Load

Table of plume Top-Hat Diameters (2a) and Plume-averaged Vertical Velocities for both Method(1) (assuming conservation of buoyancy & gaussian distribution of vertical velocities) and Method (2) (based on Peter Best's paper's Analytical Solution) starting at end of jet phase:

from 100 meters above ground in increments of 50.0 meters

				Vert.Vel (m/s)	
				Method(1)	**Method(2)**
Ht above Ground =		$h_{plume}+h_s$	$D_{plume}=2a=$	$V_{plume}=$	$\{(Va)_o^3+0.12F_o[(z-z_v)^2$
Height above stack top, meters*	meters	feet	$2*0.16(z-z_v)$	$V_{exit}*D/2a$	$-(6.25D-z_v)^2]\}^{1/3}$ / a
End of jet phase at 6.25D = 5.715 meters*	***39.142***	***128.4***	***1.829***		***5.08***
66.573 meters*	**100.000**	328.1	21.197	0.44	**1.03**
116.573 meters*	150.000	492.1	37.197	0.25	0.85
166.573 meters*	**200.000**	656.2	53.197	0.17	**0.75**
216.573 meters*	250.000	820.2	69.197	0.13	0.68
266.573 meters*	**300.000**	984.3	85.197	0.11	**0.64**
316.573 meters*	350.000	1148.3	101.197	0.09	0.60
366.573 meters*	400.000	1312.3	117.197	0.08	0.57
416.573 meters*	450.000	1476.4	133.197	0.07	0.55
466.573 meters*	**500.000**	1640.4	149.197	0.06	**0.53**
516.573 meters*	550.000	1804.5	165.197	0.06	0.51
566.573 meters*	600.000	1968.5	181.197	0.05	0.50
616.573 meters*	650.000	2132.5	197.197	0.05	0.48
666.573 meters*	**700.000**	2296.6	213.197	0.04	**0.47**
716.573 meters*	750.000	2460.6	229.197	0.04	0.46
766.573 meters*	800.000	2624.7	245.197	0.04	0.45
816.573 meters*	850.000	2788.7	261.197	0.04	0.44
866.573 meters*	900.000	2952.8	277.197	0.03	0.43
916.573 meters*	950.000	3116.8	293.197	0.03	0.42
966.573 meters*	**1000.000**	3280.8	309.197	0.03	**0.41**
1016.573 meters*	1050.000	3444.9	325.197	0.03	0.41
1066.573 meters*	1100.000	3608.9	341.197	0.03	0.40
1116.573 meters*	1150.000	3773.0	357.197	0.03	0.40
1166.573 meters*	1200.000	3937.0	373.197	0.02	0.39
1216.573 meters*	1250.000	4101.0	389.197	0.02	0.38

CHILLERS - 59F, 100% Load

	m	ft		Method(1) m/s	Method(2) m/s
3.150 meters*	36.576	120.0	0.902	10.30	9.47
3.454 meters*	36.881	121.0	0.999	9.29	8.56
3.759 meters*	37.186	122.0	1.097	8.47	7.82
4.064 meters*	37.491	123.0	1.194	7.78	7.20
4.369 meters*	37.796	124.0	1.292	7.19	6.67
4.674 meters*	38.100	125.0	1.389	6.68	6.22
4.978 meters*	38.405	126.0	1.487	6.25	5.83
5.283 meters*	38.710	127.0	1.584	5.86	5.49
5.588 meters*	39.015	128.0	1.682	5.52	5.19
5.893 meters*	39.320	129.0	1.779	5.22	4.93
6.198 meters*	39.624	130.0	1.877	4.95	4.69
6.502 meters*	39.929	131.0	1.974	4.70	4.47
6.807 meters*	40.234	132.0	2.072	4.48	4.28
7.112 meters*	40.539	133.0	2.170	4.28	4.11
7.417 meters*	40.844	134.0	2.267	4.10	3.95
7.722 meters*	41.149	135.0	2.365	3.93	3.80
8.026 meters*	41.453	136.0	2.462	3.77	3.67
8.331 meters*	41.758	137.0	2.560	3.63	3.55
8.636 meters*	42.063	138.0	2.657	3.49	3.43
8.941 meters*	42.368	139.0	2.755	3.37	3.33
9.246 meters*	42.673	140.0	2.852	3.26	3.23
9.551 meters*	42.977	141.0	2.950	3.15	3.14
9.855 meters*	43.282	142.0	3.047	3.05	3.06
10.160 meters*	43.587	143.0	3.145	2.95	2.98
10.465 meters*	43.892	144.0	3.242	2.86	2.90
10.770 meters*	44.197	145.0	3.340	2.78	2.84
11.075 meters*	44.501	146.0	3.438	2.70	2.77
11.379 meters*	44.806	147.0	3.535	2.63	2.71
11.684 meters*	45.111	148.0	3.633	2.56	2.65
11.989 meters*	45.416	149.0	3.730	2.49	2.60
12.294 meters*	45.721	150.0	3.828	2.43	2.55
27.534 meters*	60.961	200.0	8.705	1.07	1.51
58.014 meters*	91.441	300.0	18.458	0.50	1.09
88.495 meters*	121.921	400.0	28.212	0.33	0.93
118.975 meters*	152.402	500.0	37.966	0.24	0.84
149.455 meters*	182.882	600.0	47.719	0.19	0.78
179.936 meters*	213.363	700.0	57.473	0.16	0.73
210.416 meters*	243.843	800.0	67.227	0.14	0.69
240.897 meters*	274.323	900.0	76.981	0.12	0.66
271.377 meters*	304.804	1000.0	86.734	0.11	0.63

Combined Plume Method

Stack Distances (ft)	Number of Stacks
3.67	1248

ft	m/s	merged cells	Plume Diamter Feet
120	10.69	1.62	2.96
121	9.79	1.71	3.28
122	9.05	1.80	3.60
123	8.44	1.89	3.92
124	7.91	1.97	4.24
125	7.46	2.06	4.56
126	7.06	2.15	4.88
127	6.72	2.24	5.20
128	6.41	2.32	5.52
129	6.14	2.41	5.84
130	5.89	2.50	6.16
131	5.67	2.58	6.48
132	5.47	2.67	6.80
133	5.29	2.76	7.12
134	5.13	2.85	7.44
135	4.98	2.93	7.76
136	4.84	3.02	8.08
137	4.71	3.11	8.40
138	4.59	3.20	8.72
139	4.48	3.28	9.04
140	4.38	3.37	9.36
141	4.28	3.46	9.68
142	4.19	3.54	10.00
143	4.11	3.63	10.32
144	4.03	3.72	10.64
145	3.96	3.81	10.96
146	3.89	3.89	11.28
147	3.83	3.98	11.60
148	3.77	4.07	11.92
149	3.71	4.16	12.24
150	3.66	4.24	12.56
200	2.59	8.61	28.56
300	2.22	17.33	60.56
400	2.10	26.06	92.56
500	2.04	34.79	124.56
600	1.99	43.52	156.56
700	1.96	52.24	188.56
800	1.93	60.97	220.56
900	1.91	69.70	252.56
1,000	1.89	78.42	284.56

CHILLERS - 76F, 100% Load

PETER BEST PAPER ILLUSTRATIVE EXAMPLE - SINGLE TURBINE - Assumes Heights in Table 2 are meters above ground

Plume Averaged Vertical Velocities: **"*Aviation Safety and Buoyant Plumes*," Peter Best, et. al.**

Ambient Conditions:

Ambient Potential Temp θ_a	**298**	Kelvins	**76.0**	°F	Constants:	
					Assume neutral conditions (dθ/dz=0)	
Plume Exit Conditions:					Gravity g 9.81 m/s^2	
Stack Height h_s	**33.43**	meters	**109.7**	feet	λ 1.11	
Stack Diameter D	**0.91**	meters	**3.0**	feet	0.3048 meters/feet	
Stack Velocity V_{exit}	**10.2**	m/s	**33.3**	ft/sec		
Volumetric Flow	**7**	cu.m/sec	**14,130**	ACFM	$\pi V_{exit}D^2/4$	Sect.2/¶1
Stack Potential Temp θ_s	**325**	Kelvins	**125**	°F	Back-Calc'd from Buoyancy Flux	
Initial Stack Buoyancy Flux F_o	**2**	m^4/s^3			$gV_{exit}D^2(1-\theta_a/\theta_s)/4$ = Vol.Flow$(g/\pi)(1-\theta_a/\theta_s)$	Sect.2/¶1
Plume Buoyancy Flux F	N/A	m^4/s^3			$\lambda^2 gVa^2(1-\theta_a/\theta_p)$ for a,V,θ_p at plume height (not used here)	

Conditions at End (Top) of Jet Phase:

Height above Stack z	**5.715**	meters*	**18.8**	feet*	6.25D, meters*=meters above stack top		Sect.3/¶1
Height above Ground $z+h_s$	**39.142**	meters	**128.4**	feet	h_s + 6.25D		"
Vertical Velocity V_{plume}	**5.077**	m/s	**16.66**	ft/sec	$0.5V_{exit}$	$V_{exit}/2$	"
Plume Top-Hat Diameter 2a	**1.829**	meters	**6.0**	feet	2D	Conservation of mc	"

Spillane Methodology - Analytical Solutions for Calm Conditions for Plume Heights above Jet Phase

Plume Top-Hat Radius a	**Solutions in Table Below**				$0.16(z-z_v)$, or linear increase with height	Sect.2/Eq.6
Virtual Source Height z_v	**0.245**	meters*	**0.8**	feet*	$6.25D[1-(\theta_e/\theta_s)^{1/2}]$, meters*=meters above s	Sect.2/Eq.6
Height above Ground z_v+h_s	**33.672**	meters	**110.5**	feet	where $(\theta_a/\theta_s)^{1/2} = (\theta_e/\theta_s)^{1/2}$=	0.95717921

Method(1): Simplified Plume-averaged Vertical Velocity V' - Assumes Product Va constant above jet phase such that $V_{plume}(2a) = V_{exit}D$

Vertical Velocity V'	**Solutions in Table Below**	$V_{exit}D/2a'$ (conservation of buoyancy)	Sect.3&4

Method(2): Plume-averaged Vertical Velocity V given by Analytical Solution in Paper where Product Va given by equations below:

Vertical Velocity V	**Solutions in Table Below**		$\{(Va)_o^3 + 0.12F_o [(z-z_v)^2 - (6.25D-z_v)^2]\}^{(1/3)}$ /	Sect.2.1(6)
Product $(Va)_o$	**4.444**	m^2/s	$V_{exit}D/2(\theta_e/\theta_s)^{1/2}$	

CHILLERS - 76F, 100% Load

Table of plume Top-Hat Diameters (2a) and Plume-averaged Vertical Velocities for both Method(1) (assuming conservation of buoyancy & gaussian distribution of vertical velocities) and Method (2) (based on Peter Best's paper's Analytical Solution) starting at end of jet phase:

from 100 meters above ground in increments of 50.0 meters

				Vert.Vel (m/s)	
				Method(1)	**Method(2)**
Ht above Ground =		$h_{plume}+h_s$	$D_{plume}=2a=$	$V_{plume}=$	$\{(Va)_o^3+0.12F_o[(z-z_v)^2$
Height above stack top, meters*	meters	feet	$2*0.16(z-z_v)$	$V_{exit}*D/2a$	$-(6.25D-z_v)^2]\}^{1/3}$ / a
End of jet phase at 6.25D = 5.715 meters*	***39.142***	***128.4***	***1.829***		***5.08***
66.573 meters*	**100.000**	328.1	21.225	0.44	**0.94**
116.573 meters*	150.000	492.1	37.225	0.25	0.77
166.573 meters*	**200.000**	656.2	53.225	0.17	**0.68**
216.573 meters*	250.000	820.2	69.225	0.13	0.62
266.573 meters*	**300.000**	984.3	85.225	0.11	**0.58**
316.573 meters*	350.000	1148.3	101.225	0.09	0.55
366.573 meters*	400.000	1312.3	117.225	0.08	0.52
416.573 meters*	450.000	1476.4	133.225	0.07	0.50
466.573 meters*	**500.000**	1640.4	149.225	0.06	**0.48**
516.573 meters*	550.000	1804.5	165.225	0.06	0.46
566.573 meters*	600.000	1968.5	181.225	0.05	0.45
616.573 meters*	650.000	2132.5	197.225	0.05	0.44
666.573 meters*	**700.000**	2296.6	213.225	0.04	**0.43**
716.573 meters*	750.000	2460.6	229.225	0.04	0.41
766.573 meters*	800.000	2624.7	245.225	0.04	0.41
816.573 meters*	850.000	2788.7	261.225	0.04	0.40
866.573 meters*	900.000	2952.8	277.225	0.03	0.39
916.573 meters*	950.000	3116.8	293.225	0.03	0.38
966.573 meters*	**1000.000**	3280.8	309.225	0.03	**0.38**
1016.573 meters*	1050.000	3444.9	325.225	0.03	0.37
1066.573 meters*	1100.000	3608.9	341.225	0.03	0.36
1116.573 meters*	1150.000	3773.0	357.225	0.03	0.36
1166.573 meters*	1200.000	3937.0	373.225	0.02	0.35
1216.573 meters*	1250.000	4101.0	389.225	0.02	0.35

CHILLERS - 76F, 100% Load

	m	ft		Method(1) m/s	Method(2) m/s
3.150 meters*	36.576	120.0	0.930	9.99	9.40
3.454 meters*	36.881	121.0	1.027	9.04	8.52
3.759 meters*	37.186	122.0	1.125	8.26	7.79
4.064 meters*	37.491	123.0	1.222	7.60	7.18
4.369 meters*	37.796	124.0	1.320	7.04	6.66
4.674 meters*	38.100	125.0	1.417	6.55	6.22
4.978 meters*	38.405	126.0	1.515	6.13	5.83
5.283 meters*	38.710	127.0	1.612	5.76	5.49
5.588 meters*	39.015	128.0	1.710	5.43	5.19
5.893 meters*	39.320	129.0	1.807	5.14	4.93
6.198 meters*	39.624	130.0	1.905	4.87	4.69
6.502 meters*	39.929	131.0	2.002	4.64	4.47
6.807 meters*	40.234	132.0	2.100	4.42	4.28
7.112 meters*	40.539	133.0	2.198	4.23	4.10
7.417 meters*	40.844	134.0	2.295	4.05	3.94
7.722 meters*	41.149	135.0	2.393	3.88	3.79
8.026 meters*	41.453	136.0	2.490	3.73	3.65
8.331 meters*	41.758	137.0	2.588	3.59	3.53
8.636 meters*	42.063	138.0	2.685	3.46	3.41
8.941 meters*	42.368	139.0	2.783	3.34	3.31
9.246 meters*	42.673	140.0	2.880	3.22	3.21
9.551 meters*	42.977	141.0	2.978	3.12	3.11
9.855 meters*	43.282	142.0	3.075	3.02	3.03
10.160 meters*	43.587	143.0	3.173	2.93	2.95
10.465 meters*	43.892	144.0	3.270	2.84	2.87
10.770 meters*	44.197	145.0	3.368	2.76	2.80
11.075 meters*	44.501	146.0	3.466	2.68	2.73
11.379 meters*	44.806	147.0	3.563	2.61	2.67
11.684 meters*	45.111	148.0	3.661	2.54	2.61
11.989 meters*	45.416	149.0	3.758	2.47	2.55
12.294 meters*	45.721	150.0	3.856	2.41	2.50
27.534 meters*	60.961	200.0	8.733	1.06	1.42
58.014 meters*	91.441	300.0	18.486	0.50	1.00
88.495 meters*	121.921	400.0	28.240	0.33	0.85
118.975 meters*	152.402	500.0	37.994	0.24	0.76
149.455 meters*	182.882	600.0	47.747	0.19	0.70
179.936 meters*	213.363	700.0	57.501	0.16	0.66
210.416 meters*	243.843	800.0	67.255	0.14	0.63
240.897 meters*	274.323	900.0	77.009	0.12	0.60
271.377 meters*	304.804	1000.0	86.762	0.11	0.57

Combined Plume Method

Stack Distances (ft)	Number of Stacks
3.67	1248

ft	m/s	merged cells	Plume Diamter Feet
120	10.65	1.65	3.05
121	9.78	1.74	3.37
122	9.05	1.82	3.69
123	8.45	1.91	4.01
124	7.92	2.00	4.33
125	7.47	2.09	4.65
126	7.08	2.17	4.97
127	6.74	2.26	5.29
128	6.43	2.35	5.61
129	6.15	2.44	5.93
130	5.91	2.52	6.25
131	5.68	2.61	6.57
132	5.48	2.70	6.89
133	5.30	2.78	7.21
134	5.13	2.87	7.53
135	4.97	2.96	7.85
136	4.83	3.05	8.17
137	4.70	3.13	8.49
138	4.57	3.22	8.81
139	4.46	3.31	9.13
140	4.35	3.40	9.45
141	4.25	3.48	9.77
142	4.16	3.57	10.09
143	4.07	3.66	10.41
144	3.99	3.74	10.73
145	3.92	3.83	11.05
146	3.84	3.92	11.37
147	3.78	4.01	11.69
148	3.71	4.09	12.01
149	3.65	4.18	12.33
150	3.59	4.27	12.65
200	2.43	8.63	28.65
300	2.03	17.36	60.65
400	1.91	26.09	92.65
500	1.85	34.81	124.65
600	1.81	43.54	156.65
700	1.78	52.27	188.65
800	1.75	61.00	220.65
900	1.73	69.72	252.65
1,000	1.71	78.45	284.65