ENVIRONMENTAL TESTING

for proposed

DIAMOND CREEK VILLAS

15665 to 15715 Monterey Street
MORGAN HILL, CA

Prepared for

EMC Planning Group, Inc.

Clark GeoTechnical, Inc.

ClarkGeo.com

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ENVIRONMENTAL TESTING

DIAMOND CREEK VILLAS
15665 to 15715 Monterey Street
Morgan Hill, California

Prepared by

Clark GeoTechnical, Inc.

For

EMC PLANNING GROUP, Inc.
301 Lighthouse Avenue, Suite C
Monterey, California 93940

April 4, 2011

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April 3, 2011
File No. EMC002-A

Mr. Richard James
EMC Planning Group, Inc.
301 Lighthouse Avenue, Suite C
Monterey, California 93940

Subject: Environmental Testing
Diamond Creek Villas
15665 to 15715 Monterey Street
Morgan Hill, California

Dear Mr. James:

Clark GeoTechnical Inc. (CGT) is pleased to present this report to EMC Planning Group, Inc. (EMC) for environmental testing services at 15665 to 15715 Monterey Street in Morgan Hill. The accompanying report summarizes the results of our field investigation, laboratory testing and analyses.

All soil samples from the former fuel service station boreholes were below method detection limits for Total Petroleum Hydrocarbons as gasoline and diesel as well as for benzene, toluene, ethylbenzene, and total xylenes. Lead in the borehole soil samples ranged from 6.9 to 11 ppb (parts per billion) which is below direct-exposure screening levels for residential and commercial/industrial land use as established by the California Department of Toxic Substance Control. All composite samples collected in the area of the former orchard were below method detection limits for organochlorine pesticides. The discrete soil samples from the former orchard that were tested for arsenic ranged from 2.0 to 3.4 ppb. These levels of arsenic are below background levels for the southern San Francisco Bay Area.

If you have any questions regarding the information presented in our report, please do not hesitate to contact us at (510) 565-4987 or by email (MClark@ClarkGeo.com).

Sincerely,

Michael Clark
Principal Engineering Geologist

ENVIRONMENTAL TESTING

DIAMOND CREEK VILLAS
15665 to 15715 Monterey Street
Morgan Hill, California

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ENVIRONMENTAL TESTING

DIAMOND CREEK VILLAS
15665 to 15715 Monterey Street
Morgan Hill, California

1 INTRODUCTION

This report presents the results of our environmental testing services for the proposed Diamond Creek Villas to be located at 15665 to 15715 Monterey Street in Morgan Hill. Clark GeoTechnical, Inc. (CGT) has prepared this report on behalf of EMC Planning Group, Inc. to document our subsurface investigation in the area of a former fuel service station located in the northeast corner of the site and pesticide and arsenic investigation in a former orchard southwest of the fuel station. The general location of the project site is depicted on Plate 1, Site Vicinity map, and a Site Aerial Photograph is presented on Plate 2.

1.1 Site Description

The Diamond Creek Villas development is proposed to be located west of Monterey Street about 500 feet south of Vineyard Boulevard in the south part of the City of Morgan Hill. The relatively flat, approximately rectangular, 9.754-acre project site includes APNs 767-23-026, -027, and -029. The portion of the property facing onto Monterey Street is surfaced with asphalt and concrete and is occupied by several businesses. At the time of our site visits the business on the property include a hair and nails salon which occupies the former fuel service station building; a

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multi-use commercial building that houses a property management company, TV repair shop, and feed store; and a used car consignment dealership and vehicle storage lot.

A gravel driveway leads from Monterey Street along the northwest property line to a residential area near the southwest portion of the property. The portion of the property between the commercial area on Monterey Street and the residential area is an open, grass covered field with a few scattered trees. An abandoned channel of Llagas Creek traces a generally north-south sinuous path across the approximate center of the property. The re-located and channelized watercourse of Llagas Creek adjoins the southwest boundary of the project site (Site Aerial Photograph).

1.2 Background

A Phase I environmental site assessment (ESA) prepared by Earth Systems Consultants in 2006 (ESC, 2006) indicates that the fuel service station was constructed in the northwest portion of APN 767-26-027 in 1948, was closed in 1968, and underground fuel storage tanks (USTs) were removed in 1973. The report does not indicate the location or condition of the tanks, dispensers, or piping at the time of removal or if hydrocarbon product was observed or detected in the tank pit or other excavations. The tank sizes and material stored in the tanks also are not indicated. For the purpose of this investigation, we have assumed that two USTs storing gasoline and diesel were present at the site. We also assume that no other sources of possible contaminants (such as waste oil tank or hydraulic lifts) are of concern at the site.

Historical U.S. Geological Survey topographic maps from 1953 through 1980 show that an orchard was present on APNs 767-23-26 and -29 southwest of the abandoned Llagas Creek channel. The historical topographic maps and historical photographs indicate that the orchard was removed sometime after 1980. It is assumed, for the purpose of our investigation, that pesticides may have been used in the former orchard.

1.3 Purpose and Scope of Services

Our scope of service is divided into two tasks which are described below.

Task 1 was to evaluate the possible presence of petroleum hydrocarbons as gasoline (TPH-g), diesel (TPH-d), and petroleum constituents (benzene, toluene, ethylbenzene, and total xylenes [btex]) in the soil and groundwater near the inferred location of the former USTs and dispensers.

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Because of the time-period the fuel station was operational; lead testing in soil samples was also included in our analysis. The scope of proposed services included drilling three borings and sampling soil at a depth of about one foot beneath the assumed depth of the former dispenser piping and about 15 feet below ground surface near the USTs and in the down-gradient groundwater flow direction. Following soil sampling, the boreholes were extended to a depth of up to about 25 feet to collect grab ground-water samples. Borings B-1 and B-2 were located near the former tanks and dispenser islands, respectively, as shown on Plate 3, and the third boring was located in the groundwater down-gradient direction. The down-gradient flow direction is inferred to be about S17°E based on the May 10, 2007 California Department of Forestry and Fire Protection report for its Santa Clara Unit Headquarters located about 300 feet northeast across Monterey Street at 15670 Monterey Road [Case No. 14-440, Global lD: T0608502353].

Task 2 included an evaluation for the possible presence of organochlorine pesticides (OCP), and arsenic that may have been used in the orchard area. These analyses were conducted as described in the Interim Guidance for Sampling Agricultural Properties (Third Revision August 7, 2008) prepared by the California Environmental Protection Agency's Department of Toxic Substances Control (DTSC). The Interim Guidance does not call for lead analysis in orchard areas.

The Santa Clara County Assessor's Parcel Map of the project site suggests that the orchard encompassed an area of about 7.2 acres (minus the area of an access road and residence). For the purpose of this study, we assumed the total orchard area to be seven acres. Because the site appears to have been cultivated since the removal of the orchard, sample collection was conducted in an approximate grid pattern in the former orchard area. In accordance with the August 2008 Interim Guidance for Sampling Agricultural Properties, 14 soil-test samples to depths of about 6-inches were collected over the approximate seven-acre area. The 14 individual pesticide samples were composited in the field to four samples and tested by the laboratory using methods and detection limits established by the DTSC guidance document. Four discreet soil samples were also collected in the orchard area and tested for arsenic. In addition, field duplicates were collected and tested for pesticides and arsenic. Because analyses for arsenic are above California EPA direct-exposure goals, we compared the results to the background data set for the southern San Francisco Bay Area reported by Anderson (1998). The laboratory data reports (Appendices B and C) include a summary of the quality control sample results: blanks, matrix spike/matrix

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spike duplicate, surrogate recoveries, and laboratory control samples as specified by the method. The laboratory has provided a signed narrative stating whether the DTSC QC requirements were met and has listed any discrepancies (also Appendices B and C).

Other services such as geotechnical and geologic hazard conditions that may exist at the site are not included in the scope of this investigation. Our investigation and environmental testing is limited to possible hydrocarbon and lead assessment in soil and groundwater near the former fuel service station and pesticide and arsenic in shallow soil in the open field near the center of the property. No other testing of the other commercial or residential areas is included in the scope of this study. The project site is not listed as a site of interest by the Santa Clara County Department of Environmental Health or the Regional Water Quality Control Board. As such these agencies have not required oversight of the field work and testing.

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2 FIELD WORK

2.1 Soil Borings

Prior to our subsurface exploration at the former fuel service station we marked the area for drilling and notified Underground Service Alert (USA) to have its member utilities locate underground piping. Three soil borings were drilled on March 23, 2011 at the locations depicted on Plate 3, Fuel Station Site Plan. A truck-mounted drill rig was used to drill the three boreholes to depths of up to about 25 feet. During drilling, the boreholes were logged by our geologist and soil samples were collected for further evaluation. The soils encountered were described in general accordance with the Unified Soil Classification System (Appendix A). The soil samples were collected in a 2-inch inside-diameter California split-spoon sampler driven with a 140-pound hammer dropped 30 inches. The number of hammer blows to drive the sampler the final 12 inches of the 18-inch sample depth was recorded on the logs of the borings (Appendix A). Soil samples submitted to the laboratory for testing were collected at a depth of about 3½ feet near the dispenser islands and about 10½- to 15½-feet in the area of the former USTs and in the groundwater down-gradient flow direction. After sample collection, each soil sample was sealed at both ends of the sample tube using plastic end caps and tape. The soil samples were labeled and placed in an iced cooler for transportation to the analytical laboratory under chain-of-custody protocol. The cuttings from the drilling operation were placed in sealed 55-gallon drums, labeled as non-hazardous soil and were left at the site to remain the responsibility of the property owner.

Depth to groundwater was measured from the paved surface with a water-level indicator in each boring prior to collecting a grab-water sample. Because the borings were not cased and there was not sufficient time for water to reach equilibrium, the depth to water is not an accurate measure of the water table and cannot be reliably used to calculate groundwater gradient.

A grab-water sample was collected from each borehole with a new Teflon bailer. A liter bottle and three VOA vials (Volatile Organic Analysis) were filled (without air bubbles) from each borehole. The water-sample containers were labeled and placed in an iced cooler for transport to the analytical laboratory under chain-of-custody protocol. After completion of sampling, the boreholes were backfilled with cement grout in accordance with Santa Clara County requirements. The soil and water samples were delivered to Torrent Laboratory, Inc., a California

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certified laboratory for the analyses requested. The samples were tested for the possible presence of TPH-g, TPH-d and btex using EPA method 8015 modified and for lead.

2.2 Pesticide and Arsenic Testing

On March 17, 2011, fourteen discrete soil samples for OCP analysis were collected within about six-inches below ground surface in the field area of the project site (Sample Layout Map, Plate 4). The samples were collected in general accordance with the Interim Guidance for Sampling Agricultural Properties (Third Revision August 7, 2008). Four discrete soil samples for arsenic testing were also collected. An approximate grid layout as depicted on the Sample Layout Map was used to select sample locations. The 14 soil OPC samples were divided into four groups as depicted on the Sample Layout Plan and were composited in the field by thoroughly mixing equal amounts of soil from each collection point. One each of the composited OCP samples and discrete arsenic samples were divided and appropriately labeled for sample duplicates. The resulting five OCP composited samples and five discrete samples for arsenic, were bagged, labeled, and transported to the certified laboratory under chain-of-custody protocol. In tables 3 and 4 below, OCP sample CS-5 is a duplicate of CS-2, and arsenic sample S10-A is a duplicate of S7-A.

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3 LABORATORY ANALYSIS

The soil and water samples collected for this project were analyzed by Torrent Laboratory certified by the State of California to perform the requested tests. The samples from the borings at the former fuel service station were analyzed for total petroleum hydrocarbons as diesel (TPH-d) and gasoline (TPH-g), benzene, toluene, ethylbenzene and total xylenes (btex) by EPA Method 8015M. The soil samples from the former fuel service station were also analyzed for lead. Shallow soil samples from the former orchard area southwest of the fuel station were analyzed for OCP by EPA Method 8081A and for arsenic.

Tables 1 and 2, below, summarize the analytical results from soil and ground-water analyses in the area of the former fuel service station. The complete results from the laboratory for soil and water samples along with quality control data are presented in Appendix B.

Table 1
Soil Samples from Borings at Fuel Service Station
Numbers in parentheses are laboratory method detection limits (mdl)

Sample ID	Depth (feet)	Matrix	Units	TPHg (17)	TPHd(759)	b (1.5)	t (0.98)	e (0.86)	x (1.9/0.66)	Pb (43)
B1-3½	3½	S	µg/Kg	ND	ND	ND	ND	ND	ND/ND	11
B2-10½	10½	S	µg/Kg	ND	ND	ND	ND	ND	ND/ND	6.9
B3-15½	15½	S	µg/Kg	ND	ND	ND	ND	ND	ND/ND	7.2

Notes Tables 1 and 2:
TPHg and TPHd = Total petroleum hydrocarbons as gasoline and as diesel
b = benzene, t = toluene, e = ethyl benzene, x = total xylenes, pb = lead.
nd = Non-detectable at laboratory method detection limits (Torrent report).
All soil concentrations are in µg/Kg (micrograms per kilogram or parts per billion, ppb).

Table 2
Water Samples from Borings at Fuel Service Station
MDLs (in parentheses) were increased due to limited sample volume available (sediment present in grab borehole samples).

Sample ID	Depth (feet)	Matrix	Units	TPHg	TPHd	b	t	e	x
B1-14	14	W	µg/L	ND (27)	ND (528)	ND (0.42)	ND (0.24)	ND (0.19)	ND (0.25/0.16)
B2-13	13	W	µg/L	ND (30)	ND (564)	ND (0.46)	ND (0.26)	ND (0.21)	ND (0.28/0.18)
B3-18	18	W	µg/L	ND (26)	ND (560)	ND (0.41)	ND (0.23)	ND (0.19)	ND (0.24/0.16)

Notes: See Table 1
MDL for Xylenes are reported for m-,p-/o-
All water concentrations are in µg/L (micrograms per Liter or parts per billion, ppb).

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Tables 3 and 4, below, summarize the analytical results from shallow soil analyses in the area of the former orchard. The complete results from the laboratory for soil and water samples along with quality control data are presented in Appendix C.

Table 3
Pesticide Analytical Results from Former Orchard Area

PARAMETER	MDL	Sample ID				
		CS-1	CS-2	CS-3	CS-4	CS-5
alpha-BHC	0.44	ND	ND	ND	ND	ND
gamma-BHC	0.40	ND	ND	ND	ND	ND
beta-BHC	0.36	ND	ND	ND	ND	ND
delta-BHC	0.49	ND	ND	ND	ND	ND
Heptachlor	1.1	ND	ND	ND	ND	ND
Aldrin	0.44	ND	ND	ND	ND	ND
Heptachlor epoxide	0.32	ND	ND	ND	ND	ND
gamma-Chlordane	0.42	ND	ND	ND	ND	ND
alpha-Chlordane	0.36	ND	ND	ND	ND	ND
Endosulfan I	0.59	ND	ND	ND	ND	ND
4,4'-DDE	0.48	ND	ND	ND	ND	ND
Dieldrin	0.43	ND	ND	ND	ND	ND
Endrin	0.57	ND	ND	ND	ND	ND
4,4'-DDD	0.47	ND	ND	ND	ND	ND
Endosulfan II	1.5	ND	ND	ND	ND	ND
4,4'-DDT	0.81	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	ND	ND	ND	ND	ND
Endosulfan sulfate	0.49	ND	ND	ND	ND	ND
Methoxychlor	0.62	ND	ND	ND	ND	ND
Endrin Ketone	0.40	ND	ND	ND	ND	ND
Chlordane	10	ND	ND	ND	ND	ND
Toxaphene	10	ND	ND	ND	ND	ND

Notes:
Units are (µg/Kg) micrograms per kilogram or (ppb) parts per billion
MDL: Method detection limit.
Sample CS-5 is a duplicate of CS-2

Table 4
Arsenic Analytical Results from Former Orchard Area

Sample	Results (mg/Kg)
S6-A	3.4
S7-A	ND
S8-A	2.0
S9-A	2.7
S10-A	2.7

Notes:
Units are (mg/Kg) milligrams per kilogram or (ppm) parts per million
Method detection limit = 0.28 mg/Kg.
Sample S10-A is a duplicate of S7-A

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4 CONCLUSION

4.1 Former Fuel Service Station

All soil samples from the former fuel service station boreholes were below method detection limits for Total Petroleum Hydrocarbons as gasoline and diesel as well as for benzene, toluene, ethylbenzene, and total xylenes.. Lead in the borehole soil samples ranged from 6.9 to 11 µg/kg (micrograms per kilogram) which is below direct-exposure screening levels for residential and commercial/industrial land use.

Direct-exposure screening levels for lead of 150 mg/kg and 750 mg/kg are presented for residential land use and commercial/industrial land use, respectively. The residential screening level of 150 mg/kg is published in the Office of Environmental Health Hazard Evaluation document Human-Health-Based Screening Numbers Developed to Aid Estimation of Cleanup Costs for Contaminated Soil (CalEPA 2004b) and was developed through use of the DTSC LeadSpread model. The screening levels are based on a target blood-lead level of 10 µg/dL (99th percentile). The model incorporates concurrent exposure to lead in drinking water at a concentration of 15 µg/L (Primary MCL). The screening level also takes into account the potential uptake of lead in home-grown produce.

The DTSC schools unit has published a screening level for lead of 255 mg/kg, also based on use of the DTSC LeadSpread model (CalEPA 2001). This screening level is based on an identical residential exposure scenario as noted above with the exception that uptake of lead in home-grown produce is not considered. While this screening level may be appropriate for schools and even high-density housing areas, the more comprehensive OEHHA screening level was selected for use as a screening level by the DTSC. US EPA Region 9 presents a residential screening level for lead of 400 mg/kg (US EPA 2004). This screening level is based on a model similar to LeadSpread, but only considers the uptake of lead via direct exposure to contaminated soil.

The commercial/industrial soil screening level for lead of 750 mg/kg referenced is based on the US EPA Region 9 Preliminary Remediation Goal for this exposure scenario (US EPA 2004). Residential exposure could occur via inhalation of air-born dust as well as ingestion of dust that has entered living spaces. A decision was therefore made to refer to the US EPA (DTSC) screening level.

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4.2 Former Orchard

The health-based, direct-exposure goals in of arsenic in soil is 0.07 mg/kg for residential land use and 0.24 mg/kg for commercial/industrial land use (Cal EPA, 2005). However, Natural background concentrations of arsenic in California are often well above the state's direct-exposure goals. California Environmental Protection Agency's Department of Toxic Substances Control (DTSC, 2008) states that if all the arsenic results for the site are at or below 12 mg/kg, then collection of background samples will not be required. According to DTSC, alternative screening levels based on site-specific or regionally-specific established background levels may represent a more appropriate screening level in such instances.

We compared arsenic levels measured at the former orchard site to published background levels by Andersen (1998). That report summarizes levels of arsenic in soil documented in the San Francisco Bay Area. According to the Andersen (1998) report, Boerngen and Shacklette (1981) reported As (Arsenic) concentrations of 8.2, 6.0, and 9.2 ppm in soils from Gilroy, Palo Alto, and San Mateo County, respectively. These three analyses are higher than the nationwide geometric mean of 5.2 ppm for As and are within the second highest and the middle of five ranges of As contents reported by Shacklette and Boerngen (1981). Cal EPA does not generally require cleanup of naturally occurring chemicals to less than background.

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5 LIMITATIONS

Clark GeoTechnical has prepared this report in accordance with generally accepted standards of care that exist in central California at this time. This report may be used only by EMC Planning Group and the project design team only for the purpose stated, within a reasonable time from its issuance, but no later than one year from the date of the report. All information gathered by Clark GeoTechnical is considered confidential and will be released only upon written authorization of EMC or as required by law. Any party other than the client who wishes to use this report shall notify and receive written consent from CGT for such intended use. Non-compliance with any of these requirements by the client or anyone else, unless specifically agreed to in advance by Clark GeoTechnical in writing, will release Clark GeoTechnical from any liability resulting from the use of this document by anyone.

Clark GeoTechnical offers various levels of investigation and environmental services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions. Although risk can never be eliminated, more-detailed and extensive investigations yield more information, which may help understand and manage the level of risk.

Regulations and professional standards applicable to Clark GeoTechnical's services are continually evolving. Different professionals may reasonably adopt different approaches to similar problems. Our services are based on a scope and budget approved by the client for a limited number of field observations and tests, collected, and performed in accordance with generally accepted environmental practices that exist at the time of our study. If information gathered previously by others is made available by the client, our opinions and recommendations may depend on, and be qualified by, that information. Our services are intended to provide EMC with practical professional advice, opinions, and recommendations. As a consequence of the project limitations described herein, no warranty or guarantee, expressed or implied, is intended or made.

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6 REFERENCES

Andersen, David W., 30 June 1998, Natural Levels of Nickel, Selenium, and Arsenic in the Southern San Francisco Bay Area, Department of Geology, San Jose State University

Boerngen, J.G., and Shacklette, H.T., 1981, Chemical analysis of soils and other surficial materials of the conterminous United States: U.S. Geological Survey Open-File Report 81-197, 143 p.

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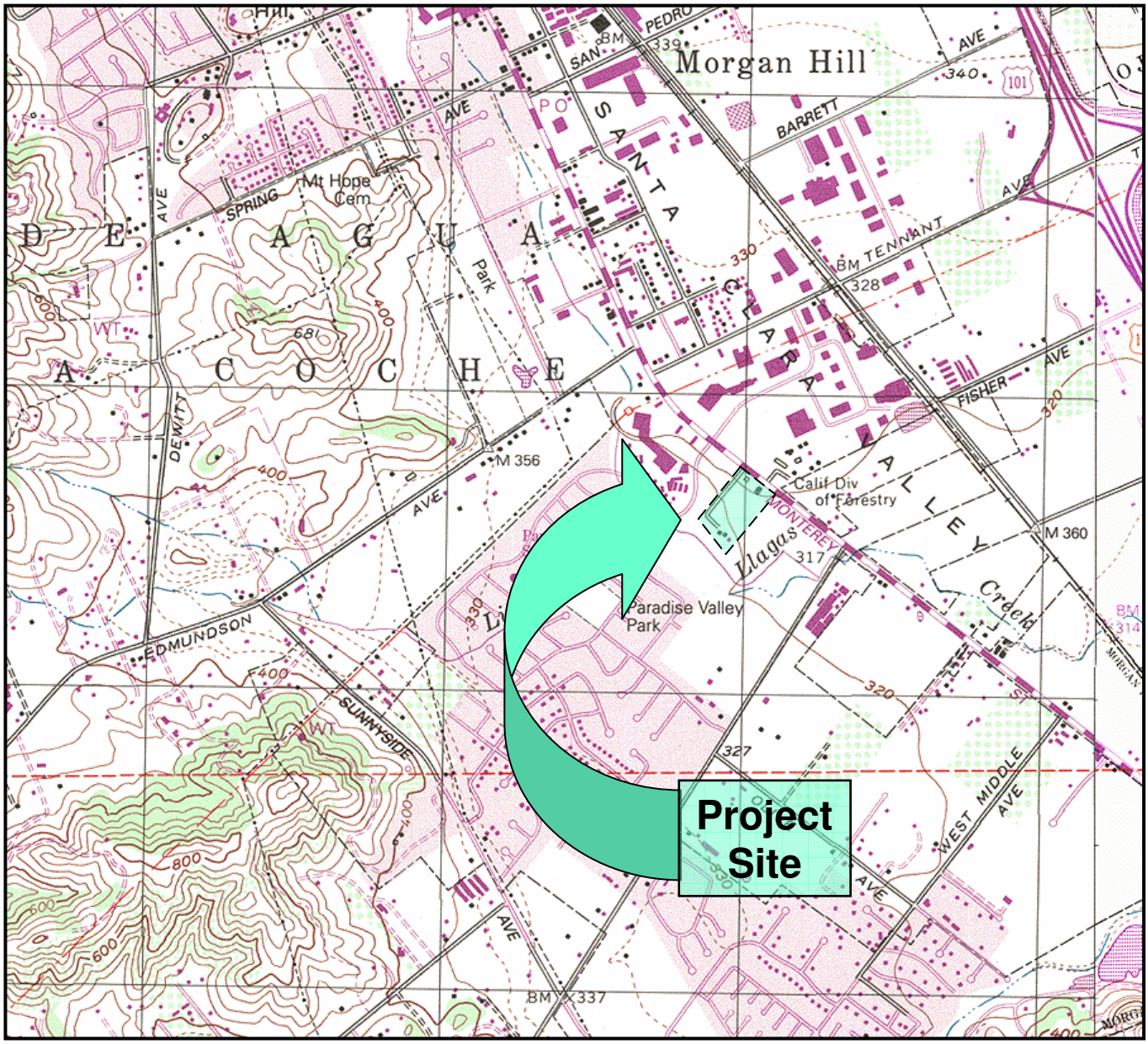

0 1/2 1 MILE
0 1000 FEET 0 500 m 1000 m

N W E S

Map source: U.S. Geological Survey 7½-minute Mount Madonna Topographic Quadrangle

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Plate Title
Site Vicinity Map

Project Name
Diamond Creek Villas
Monterey Street, Morgan Hill

Plate
1

0 1 2
Approximate scale (100 feet)

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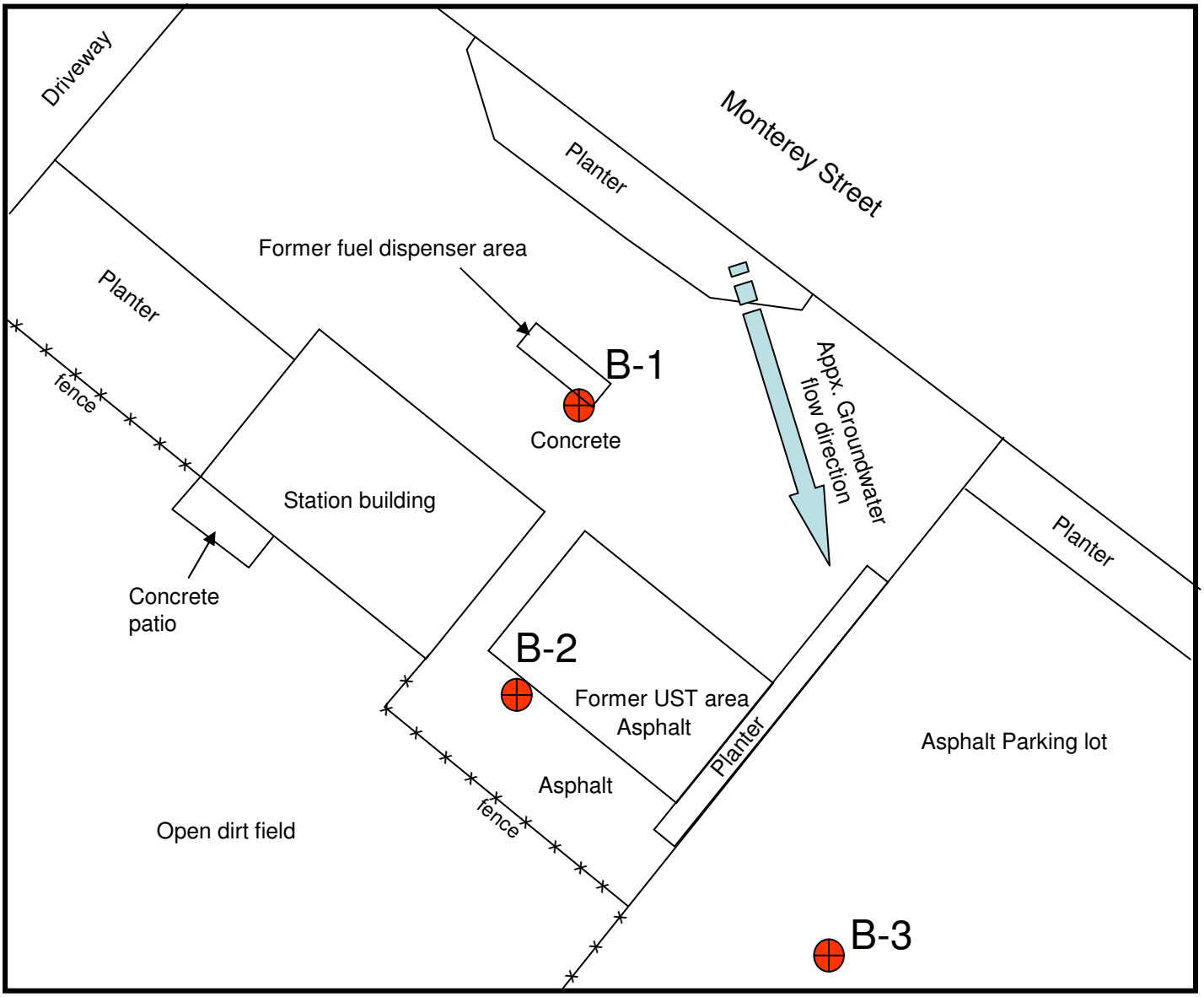
File Name:

Plate Title
Site Aerial Photograph

Project Name
Diamond Creek Villas
Monterey Street, Morgan Hill

Plate
2



0 25 50
Approximate scale (feet)

N W E S

B-3 CGT Boring location

Expected Groundwater Flow Direction Derived from the May 10, 2007 California Department of Forestry and Fire Protection report for its Santa Clara Unit Headquarters locate about 300 feet northeast from the former fuel service station, across Monterey Street site at 15670 Monterey Road [Case No. 14-440, Global ID: T0608502353] groundwater flow direction is about S17°E.

Based on Aerial Photograph from Google Earth, October 1, 2009

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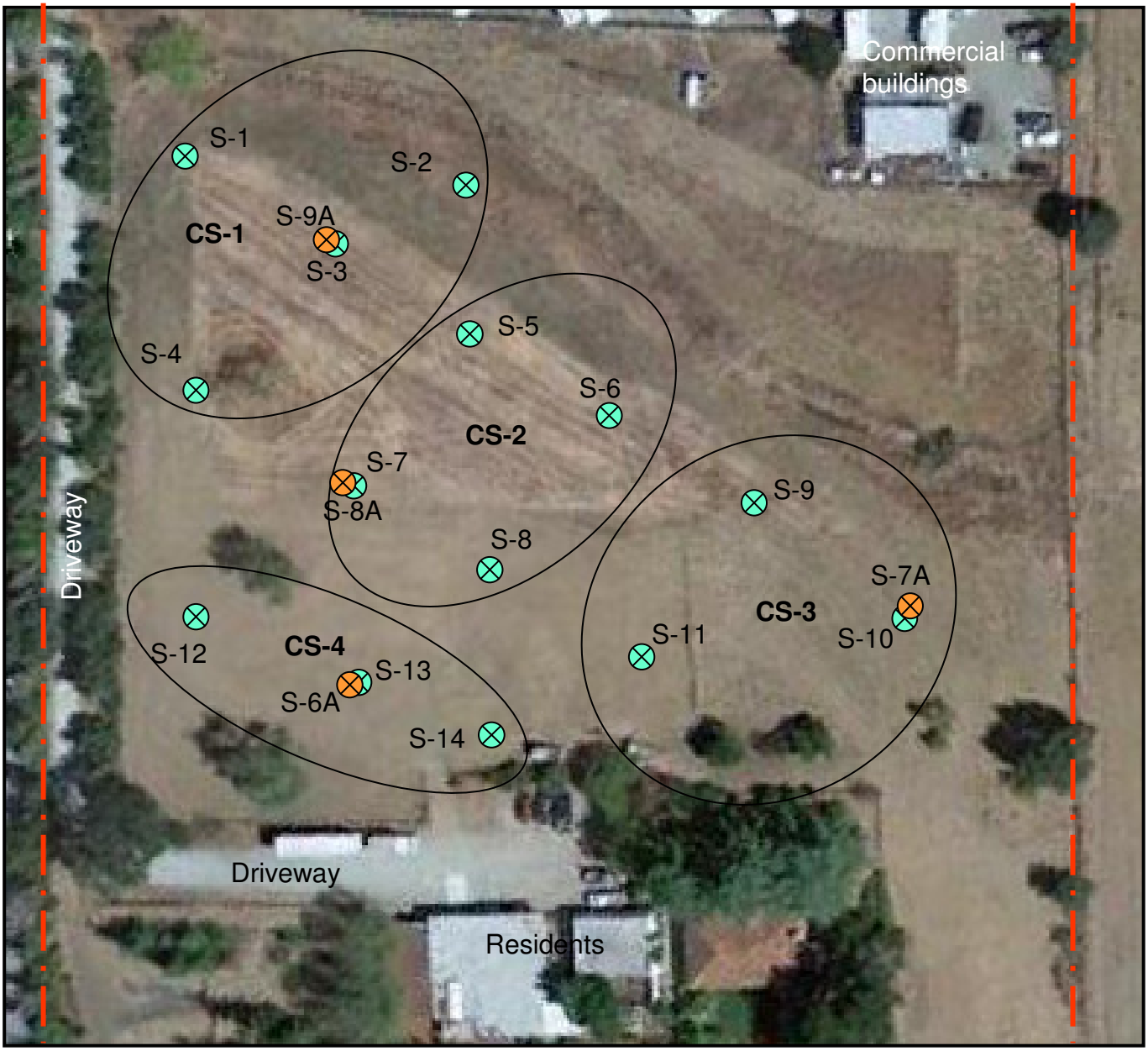
Plate Title
Fuel Station Site Plan

Project Name
Diamond Creek Villas
Monterey Street, Morgan Hill

Plate
3



0 1 2

Approximate scale (100 feet)

Property line

S-14 Approximate location of OPC soil samples,

S-9A Discrete arsenic sample

CS-4 Area of composited samples

Aerial Photograph Source: Google Earth, October 1, 2009

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Plate Title
Sample Layout Plan

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Diamond Creek Villas
Monterey Street, Morgan Hill

Plate
4

Appendix A

Unified Soil Classification System and Symbol Key and Boring Logs

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Unified Soil Classification System

MAJOR DIVISIONS		Symbol	DESCRIPTION	MAJOR DIVISIONS		Symbol	DESCRIPTION
Coarse-grained soils	Gravel and gravelly soils	GW	Well-graded gravel or gravel sand mixture, little or no fines	Fine-grained soils	Silt and clay LL<50	ML	Inorganic silt and very fine sand, rock flour, silty and clayey fine sand or clayey silt with slight plasticity
		GP	Poorly-graded gravel or gravel sand mixture, little or no fines				
		GM	Silty gravel, gravel-sand-clay mixture			CL	Inorganic clay of low to medium plasticity, gravelly clay, sandy clay, silty clay, lean clay
		GC	Clayey gravel, gravel-sand-clay mixture			OL	Organic silt and organic silty clay of low plasticity
	Sand and sandy soil	SW	Well-graded sand or gravelly sand, little or no fines		Silt and clay LL>50	MH	Inorganic silt, micaceous or diatomaceous fine sandy or silty soil. Elastic silt
		SP	Poorly-graded sand or gravelly sand, little or no fines			CH	Inorganic clay of high plasticity, fat clay
		SM	Silty sand, sand-silt mixture			OH	Organic clay of medium to high plasticity, organic silt
		SC	Clayey sand, sand-clay mixture	Highly organic soils		PT	Peat and other highly organic soil

Depth through which sampler is driven

Relatively undisturbed sample retained in brass sleeve

No sample recovered

Static water level

Initial water level

Blows (N) represent the number of drops of a 140-pound hammer falling 30 inches to drive a standard pen sampler each successive 12 inches of an 18-inch penetration.

Lines separating soil units on the logs represent approximate boundaries. Boundaries may be gradational, Logs represent subsurface conditions at the boring locations at the time of drilling only.

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Plate Title
USCS and Symbol Key

Project Name
Diamond Creek Villas
Monterey Street, Morgan Hill

Plate
A-1

BORING LOG - B-1

CGT Job No.: EMC002-A **Date Drilled:** 3/23/11 **Logged by:** MNC
Job Name: Diamond Creek Villas **Apx.Elevation:** 323 ft.
Drill Method: Truck-mounted Hollow Stem **Datum:** Mean Sea Level
Sampler type: 2" ID Mod Cal **Hammer/Fall:** 140#/ 30in

Lat: N 37.10975
Long: W 121.63923

Surface Descript: Concrete — Paved parking lot at former dispenser island

Blows / foot	Sampler type	% moisture content	Dry density (pcf)	Pocket Pen: Ton/ft.^{2}	Recovery (in.)	Depth in Feet	Sample symbol	USGS Classification	LOG OF BORING
									~3 in. PPC over ~4 in. base rock
	Cal. Mod.					1		CH	Fat Clay, medium orange-brown, dry to slightly moist, hard
						2			
						3			
56					18	4			Soil sample submitted for TPH, pb analysis
						5			
51					18	6			
						7			
						8			
						9			
						10			
18					11	11			Water level is not static.
						12			
						13			
						14			
						15			
49					17	16			
						17			First water encountered at about 17 feet
								SC	Sandy clay, med brown, wet, medium dense, sand is angular, black with quartzitic.
						18			
						19			

BORING LOG - B-1 continued

CGT Job No.: EMC002-A **Date Drilled:** 3/23/11 Logged by: MNC
Job Name: Diamond Creek Villas **Apx.Elevation:** 323 ft.
Drill Method: Truck-mounted Hollow Stem **Datum:** Mean Sea Level
Sampler type: 2" ID Mod Cal **Hammer/Fall:** 140#/ 30in

Lat: N 37.10975
Long: W 121.63923

Surface Descript: concrete

LOG OF BORING

Paved parking lot at former dispenser island

Blows / foot	Sampler type	% moisture	Dry density (pcf)	Pocket Pen: Ton/ft.^{2}	Recovery (in.)	Depth in Feet	Sample symbol	USGS Classification	
								SC	Sandy clay - continued
22	Cal. Mod.				18	21			
						22			Total depth: 20½ feet, groundwater @ 11.8 ft., backfilled with grout
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			

BORING LOG - B-2

CGT Job No.: EMC002-A **Date Drilled:** 3/23/11 Logged by: MNC
Job Name: Diamond Creek Villas **Apx.Elevation:** 323 ft.
Drill Method: Truck-mounted Hollow Stem **Datum:** Mean Sea Level
Sampler type: 2" ID Mod Cal **Hammer/Fall:** 140#, 30in with capstan

Lat: N 37.10959
Long: W 121.63925
Surface Descript: asphalt

LOG OF BORING

Near former UST area on SE side of building

Blows / foot	Sampler type	% moisture	Dry density (pcf)	Pocket Pen: Ton/ft.^{2}	Recovery (in.)	Depth in Feet	Sample symbol	USGS Classification	Log
									1½-2 in. A/C over ~4 in. base rock.
	Cal. Mod.					1		CH	Fat Clay, medium orange-brown, dry to slightly moist, hard.
						2			
						3			
						4			
						5			
46					18	6			
						7			
						8			
						9			
						10			
26					17	11			Soil sample submitted for TPH, pb analysis.
						12			Water level is not static.
						13			
						14			
						15			
25					16	16			
						17		GC	Gravelly clay, medium brown, wet, very stiff, gravel is rounded 1/4in. diameter.
						18			
26					18	19			First water encountered between 18 and 19 ft.

BORING LOG - B-2 -continued

CGT Job No.: EMC002-A **Date Drilled:** 3/23/11 Logged by: MNC
Job Name: Diamond Creek Villas **Apx.Elevation:** 323 ft.
Drill Method: Truck-mounted Hollow Stem **Datum:** Mean Sea Level
Sampler type: 2" ID Mod Cal **Hammer/Fall:** 140#/ 30in

Lat: N 37.10959
Long: W 121.63925
Surface Descript: asphalt

LOG OF BORING

Near former UST area on SE side of building

Blows / foot	Sampler type	% moisture	Dry density (pcf)	Pocket Pen: Ton/ft.^{2}	Recovery (in.)	Depth in Feet	Sample symbol	USGS Classification	
								GC	Gravelly clay - continued
	Cal. Mod.					21		GP	Sandy gravel, medium brown to dark gray, wet, dense, gravel is loose, well rounded, black
						22			
						23			
						24			
45					18	25			
									Total depth: 25 ft., groundwater @ 11.3 ft., backfilled with grout.
						26			
						27			
						28			
						29			
						30			
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			

BORING LOG - B-3

CGT Job No.: EMC002-A **Date Drilled:** 3/23/11 Logged by: MNC
Job Name: Diamond Creek Villas **Elevation:** 323 ft.
Drill Method: Truck-mounted Hollow Stem **Datum:** Mean Sea Level
Sampler type: 2" ID Mod Cal **Hammer/Fall:** 142#, 30in with capstan

Lat: N 37.10961
Long: W 121.63917

Surface Descript: asphalt

30 ft. SE of planter along SE side of building in adjoining parking lot.

Blows / foot	Sampler type	% passing #200	% moisture	Dry density (pcf)	Recovery (in.)	Depth in Feet	Sample symbol	USGS Classification	LOG OF BORING
									3½ in. A/C over 2 in. base rock.
	Cal. Mod.					1		CH	Clay and minor coarse-grained sand, light brown, slightly moist, very stiff, sand is dark gray, well rounded.
						2			
						3			
						4			
						5			
31					18	6			
						7			
						8		CH	Clay, red brown, slightly moist, stiff to hard.
						9			5-in. thick stringer of sand, medium-grained, dark brown to black, well rounded.
						10			
16					12	11			Water level is not static.
						12			
						13			
						14			
						15			
39					16	16			Soil sample submitted for TPH, pb analysis.
						17			First water encountered @ about 17½ ft.
						18		GC	Clayey sandy gravel, medium brown, wet, medium dense, sand and gravel is loose, well rounded.
						19			

BORING LOG - B-3 -continued

CGT Job No.: EMC002-A **Date Drilled:** 3/23/11 Logged by: MNC
Job Name: Diamond Creek Villas **Elevation:** 323 ft.
Drill Method: Truck-mounted Hollow Stem **Datum:** Mean Sea Level
Sampler type: 2" ID Mod Cal **Hammer/Fall:** 142#, 30in with capstan

Blows / foot	Sampler type	% passing #200	% moisture	Dry density (pcf)	Recovery (in.)	Depth in Feet	Sample symbol	USGS Classification	Lat: N 37.10961 Long: W 121.63917	LOG OF BORING
									Surface Descript: asphalt	30 ft. SE of planter along SE side of building in adjoining parking lot.
								GC	Clayey sand - continued	
26	Cal. Mod.				15	21		GP	Sandy gravel, medium brown to dark gray, wet, dense, gravel is loose, well rounded, black	
						22			Total depth: 21½ ft., groundwater @ 10.4 ft, backfilled with grout.	
						23				
						24				
						25				
						26				
						27				
						28				
						29				
						30				
						31				
						32				
						33				
						34				
						35				
						36				
						37				
						38				
						39				

Appendix B

Laboratory Test Results
At Former Fuel Service Station

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Clark Geotechnical
1023 Old Canyon Rd
Fremont, California 94536
Tel: (510) 656-4987

RE: 15715 Monterey St, Morgan Hill

Work Order No.: 1103139

Dear Michael Clark:

Torrent Laboratory, Inc. received 6 sample(s) on March 23, 2011 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock

March 30, 2011
Date

Date: 3/30/2011

Client: Clark Geotechnical

Project: 15715 Monterey St, Morgan Hill

Work Order: 1103139

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Sample Result Summary

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/23/11
Date Reported: 03/30/11

B1-3 1/2 1103139-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Lead	SW6010B	1	0.043	1.0	11	mg/Kg

B1-14' 1103139-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

B2-10 1/2 1103139-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Lead	SW6010B	1	0.043	1.0	6.9	mg/Kg

B2-13 1103139-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

B3-15 1/2 1103139-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Lead	SW6010B	1	0.043	1.0	7.2	mg/Kg

Sample Result Summary

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/23/11
Date Reported: 03/30/11

B3-18' 1103139-006

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/23/11
Date Reported: 03/30/11

Client Sample ID:	B1-3 1/2	**Lab Sample ID:**	1103139-001A
Project Name/Location:	15715 Monterey St, Morgan Hill	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/23/11 / 8:15		
Tag Number:	15715 Monterey St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	3/24/11	03/24/11	1	0.043	1.0	11		mg/Kg	404357	2272

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzene	SW8260B	NA	03/24/11	1	1.5	10	ND		ug/Kg	404377	NA
Toluene	SW8260B	NA	03/24/11	1	0.98	10	ND		ug/Kg	404377	NA
Ethyl Benzene	SW8260B	NA	03/24/11	1	0.86	10	ND		ug/Kg	404377	NA
m,p-Xylene	SW8260B	NA	03/24/11	1	1.9	10	ND		ug/Kg	404377	NA
o-Xylene	SW8260B	NA	03/24/11	1	0.66	5.0	ND		ug/Kg	404377	NA
(S) Dibromofluoromethane	SW8260B	NA	03/24/11	1	59.8	148	128		%	404377	NA
(S) Toluene-d8	SW8260B	NA	03/24/11	1	55.2	133	86.4		%	404377	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/24/11	1	55.8	141	113		%	404377	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	3/24/11	03/24/11	1	17	100	ND		ug/Kg	404377	2281
(S) 4-Bromofluorobenzene	8260TPH	3/24/11	03/24/11	1	43.9	127	67.6		%	404377	2281

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	3/24/11	03/24/11	1	0.759	2.0	ND		mg/Kg	404369	2275
Pentacosane (S)	SW8015B(M)	3/24/11	03/24/11	1	59.7	129	80.7		mg/Kg	404369	2275

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/23/11
Date Reported: 03/30/11

Client Sample ID:	B1-14'	**Lab Sample ID:**	1103139-002A
Project Name/Location:	15715 Monterey St, Morgan Hill	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	03/23/11 / 9:40		
Tag Number:	15715 Monterey St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Benzene	SW8260B	NA	03/24/11	1.26	0.42	0.63	ND		ug/L	404414	NA
Toluene	SW8260B	NA	03/24/11	1.26	0.24	0.63	ND		ug/L	404414	NA
Ethyl Benzene	SW8260B	NA	03/24/11	1.26	0.19	0.63	ND		ug/L	404414	NA
m,p-Xylene	SW8260B	NA	03/24/11	1.26	0.25	1.3	ND		ug/L	404414	NA
o-Xylene	SW8260B	NA	03/24/11	1.26	0.16	0.63	ND		ug/L	404414	NA
(S) Dibromofluoromethane	SW8260B	NA	03/24/11	1.26	61.2	131	100		%	404414	NA
(S) Toluene-d8	SW8260B	NA	03/24/11	1.26	75.1	127	94.2		%	404414	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/24/11	1.26	64.1	120	107		%	404414	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
TPH(Gasoline)	8260TPH	3/24/11	03/24/11	1.26	27	63	ND		ug/L	404414	2298
(S) 4-Bromofluorobenzene	8260TPH	3/24/11	03/24/11	1.26	34	114	70.3		%	404414	2298

NOTE: Raised reporting limit - see comment for 8260B analysis.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	3/23/11	03/24/11	1	0.0528	0.13	ND		mg/L	404370	2269
Pentacosane (S)	SW8015B(M)	3/23/11	03/24/11	1	64.2	123	98.1		%	404370	2269

NOTE: Reporting limits increased due to limited sample volume available (sediment present).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/23/11
Date Reported: 03/30/11

Client Sample ID:	B2-10 1/2	**Lab Sample ID:**	1103139-003A
Project Name/Location:	15715 Monterey St, Morgan Hill	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/23/11 / 10:47		
Tag Number:	15715 Monterey St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	3/24/11	03/24/11	1	0.043	1.0	6.9		mg/Kg	404357	2272

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzene	SW8260B	NA	03/24/11	1	1.5	10	ND		ug/Kg	404377	NA
Toluene	SW8260B	NA	03/24/11	1	0.98	10	ND		ug/Kg	404377	NA
Ethyl Benzene	SW8260B	NA	03/24/11	1	0.86	10	ND		ug/Kg	404377	NA
m,p-Xylene	SW8260B	NA	03/24/11	1	1.9	10	ND		ug/Kg	404377	NA
o-Xylene	SW8260B	NA	03/24/11	1	0.66	5.0	ND		ug/Kg	404377	NA
(S) Dibromofluoromethane	SW8260B	NA	03/24/11	1	59.8	148	130		%	404377	NA
(S) Toluene-d8	SW8260B	NA	03/24/11	1	55.2	133	87.7		%	404377	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/24/11	1	55.8	141	109		%	404377	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	3/24/11	03/24/11	1	17	100	ND		ug/Kg	404377	2281
(S) 4-Bromofluorobenzene	8260TPH	3/24/11	03/24/11	1	43.9	127	72.0		%	404377	2281

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	3/24/11	03/24/11	1	0.759	2.0	ND		mg/Kg	404369	2275
Pentacosane (S)	SW8015B(M)	3/24/11	03/24/11	1	59.7	129	86.8		mg/Kg	404369	2275

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/23/11
Date Reported: 03/30/11

Client Sample ID:	B2-13	**Lab Sample ID:**	1103139-004A
Project Name/Location:	15715 Monterey St, Morgan Hill	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	03/23/11 / 11:20		
Tag Number:	15715 Monterey St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Benzene	SW8260B	NA	03/24/11	1.38	0.46	0.69	ND		ug/L	404414	NA
Toluene	SW8260B	NA	03/24/11	1.38	0.26	0.69	ND		ug/L	404414	NA
Ethyl Benzene	SW8260B	NA	03/24/11	1.38	0.21	0.69	ND		ug/L	404414	NA
m,p-Xylene	SW8260B	NA	03/24/11	1.38	0.28	1.4	ND		ug/L	404414	NA
o-Xylene	SW8260B	NA	03/24/11	1.38	0.18	0.69	ND		ug/L	404414	NA
(S) Dibromofluoromethane	SW8260B	NA	03/24/11	1.38	61.2	131	92.3		%	404414	NA
(S) Toluene-d8	SW8260B	NA	03/24/11	1.38	75.1	127	89.2		%	404414	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/24/11	1.38	64.1	120	113		%	404414	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
TPH(Gasoline)	8260TPH	3/24/11	03/24/11	1.38	30	69	ND		ug/L	404414	2298
(S) 4-Bromofluorobenzene	8260TPH	3/24/11	03/24/11	1.38	34	114	59.7		%	404414	2298

NOTE: Raised reporting limit - see comment for 8260B analysis.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	3/23/11	03/24/11	1	0.0564	0.14	ND		mg/L	404370	2269
Pentacosane (S)	SW8015B(M)	3/23/11	03/24/11	1	64.2	123	92.9		%	404370	2269

NOTE: Reporting limits increased due to limited sample volume available (sediment present).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/23/11
Date Reported: 03/30/11

Client Sample ID:	B3-15 1/2	**Lab Sample ID:**	1103139-005A
Project Name/Location:	15715 Monterey St, Morgan Hill	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/23/11 / 12:20		
Tag Number:	15715 Monterey St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Lead	SW6010B	3/24/11	03/24/11	1	0.043	1.0	7.2		mg/Kg	404357	2272

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzene	SW8260B	NA	03/24/11	1	1.5	10	ND		ug/Kg	404377	NA
Toluene	SW8260B	NA	03/24/11	1	0.98	10	ND		ug/Kg	404377	NA
Ethyl Benzene	SW8260B	NA	03/24/11	1	0.86	10	ND		ug/Kg	404377	NA
m,p-Xylene	SW8260B	NA	03/24/11	1	1.9	10	ND		ug/Kg	404377	NA
o-Xylene	SW8260B	NA	03/24/11	1	0.66	5.0	ND		ug/Kg	404377	NA
(S) Dibromofluoromethane	SW8260B	NA	03/24/11	1	59.8	148	127		%	404377	NA
(S) Toluene-d8	SW8260B	NA	03/24/11	1	55.2	133	86.1		%	404377	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/24/11	1	55.8	141	118		%	404377	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	3/24/11	03/24/11	1	17	100	ND		ug/Kg	404377	2281
(S) 4-Bromofluorobenzene	8260TPH	3/24/11	03/24/11	1	43.9	127	71.0		%	404377	2281

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	3/24/11	03/24/11	1	0.759	2.0	ND		mg/Kg	404369	2275
Pentacosane (S)	SW8015B(M)	3/24/11	03/24/11	1	59.7	129	88.6		mg/Kg	404369	2275

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/23/11
Date Reported: 03/30/11

Client Sample ID:	B3-18'	**Lab Sample ID:**	1103139-006A
Project Name/Location:	15715 Monterey St, Morgan Hill	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	03/23/11 / 12:40		
Tag Number:	15715 Monterey St		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Benzene	SW8260B	NA	03/24/11	1.22	0.41	0.61	ND		ug/L	404414	NA
Toluene	SW8260B	NA	03/24/11	1.22	0.23	0.61	ND		ug/L	404414	NA
Ethyl Benzene	SW8260B	NA	03/24/11	1.22	0.19	0.61	ND		ug/L	404414	NA
m,p-Xylene	SW8260B	NA	03/24/11	1.22	0.24	1.2	ND		ug/L	404414	NA
o-Xylene	SW8260B	NA	03/24/11	1.22	0.16	0.61	ND		ug/L	404414	NA
(S) Dibromofluoromethane	SW8260B	NA	03/24/11	1.22	61.2	131	92.7		%	404414	NA
(S) Toluene-d8	SW8260B	NA	03/24/11	1.22	75.1	127	88.4		%	404414	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	03/24/11	1.22	64.1	120	106		%	404414	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
TPH(Gasoline)	8260TPH	3/24/11	03/24/11	1.22	26	61	ND		ug/L	404414	2298
(S) 4-Bromofluorobenzene	8260TPH	3/24/11	03/24/11	1.22	34	114	81.8		%	404414	2298

NOTE: Raised reporting limit - see comment for 8260B analysis.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	3/23/11	03/24/11	1	0.0560	0.14	ND		mg/L	404370	2269
Pentacosane (S)	SW8015B(M)	3/23/11	03/24/11	1	64.2	123	93.5		%	404370	2269

NOTE: Reporting limits increased due to limited sample volume available (sediment present).

MB Summary Report

Work Order:	1103139	**Prep Method:**	3510_TPH	**Prep Date:**	03/23/11	**Prep Batch:**	2269
Matrix:	Water	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404370
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.0440	0.10	ND	
TPH as Motor Oil	0.0920	0.20	ND	
Pentacosane (S)			89.7	

Work Order:	1103139	**Prep Method:**	3510_TPH	**Prep Date:**	03/23/11	**Prep Batch:**	2269
Matrix:	Water	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	03/25/11	**Analytical Batch:**	404399
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.0440	0.10	ND	
TPH as Motor Oil	0.0920	0.20	ND	
Pentacosane (S)			95.8	

Work Order:	1103139	**Prep Method:**	3050	**Prep Date:**	03/24/11	**Prep Batch:**	2272
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404357
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	ND	
Arsenic	0.28	1.7	ND	
Barium	1	5.0	ND	
Beryllium	0.0840	2.0	ND	
Cadmium	0.059	1.0	ND	
Chromium	0.059	5.0	0.13	
Cobalt	0.14	5.0	ND	
Copper	0.090	5.0	1.2	
Lead	0.043	1.0	0.21	
Molybdenum	0.059	5.0	0.15	
Nickel	0.059	5.0	ND	
Selenium	0.29	5.0	ND	
Silver	1.0	1.0	ND	
Thallium	0.12	5.0	0.20	
Vanadium	0.12	5.0	ND	
Zinc	0.59	5.0	ND	

MB Summary Report

Work Order:	1103139	**Prep Method:**	3545_TPH	**Prep Date:**	03/24/11	**Prep Batch:**	2275
Matrix:	Soil	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404369
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.758	2.0	0.81	
TPH as Motor Oil	1.78	4.0	ND	
Pentacosane (S)			80.3	

Work Order:	1103139	**Prep Method:**	5035	**Prep Date:**	03/24/11	**Prep Batch:**	2281
Matrix:	Soil	**Analytical Method:**	8260TPH	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404377
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	17	100	ND	
(S) 4-Bromofluorobenzene			71.6	

Work Order:	1103139	**Prep Method:**	5030	**Prep Date:**	03/24/11	**Prep Batch:**	2298
Matrix:	Water	**Analytical Method:**	8260TPH	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404414
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	22	50	ND	
(S) 4-Bromofluorobenzene			96.8	

MB Summary Report

Work Order:	1103139	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Soil	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404377
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	4.4	10	ND	
Chloromethane	4.6	10	ND	
Vinyl Chloride	2.6	10	ND	
Bromomethane	4.7	10	ND	
Trichlorofluoromethane	2.9	10	ND	
1,1-Dichloroethene	1.5	10	ND	
Freon 113	3.7	10	ND	
Methylene Chloride	2.0	10	ND	
trans-1,2-Dichloroethene	1.1	10	ND	
MTBE	2.6	10	ND	
tert-Butanol	21	50	ND	
Diisopropyl ether (DIPE)	2.2	10	ND	
1,1-Dichloroethane	1.3	10	ND	
ETBE	2.4	10	ND	
cis-1,2-Dichloroethene	1.8	10	ND	
2,2-Dichloropropane	1.2	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	1.2	10	ND	
Carbon Tetrachloride	1.6	10	ND	
1,1,1-Trichloroethane	1.2	10	ND	
1,1-Dichloropropene	1.4	10	ND	
Benzene	1.5	10	ND	
TAME	2.1	10	ND	
1,2-Dichloroethane	1.9	10	ND	
Trichloroethylene	3.9	10	ND	
Dibromomethane	2.2	10	ND	
1,2-Dichloropropane	1.3	10	ND	
Bromodichloromethane	1.1	10	ND	
2-Chloroethyl vinyl ether	4.5	10	ND	
cis-1,3-Dichloropropene	1.4	10	ND	
Toluene	0.98	10	ND	
Tetrachloroethylene	1.8	10	ND	
trans-1,3-Dichloropropene	1.2	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.1	10	ND	
1,3-Dichloropropane	2.1	10	ND	
1,2-Dibromoethane	1.7	10	ND	
Ethyl Benzene	0.86	10	ND	
Chlorobenzene	4.2	10	ND	
1,1,1,2-Tetrachloroethane	0.86	10	ND	
m,p-Xylene	1.9	10	ND	

MB Summary Report

Work Order:	1103139	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Soil	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404377
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
o-Xylene	0.66	5.0	ND	
Styrene	0.77	10	ND	
Bromoform	1.9	10	ND	
Isopropyl Benzene	1.2	10	ND	
n-Propylbenzene	1.4	10	ND	
Bromobenzene	1.2	10	ND	
1,1,2,2-Tetrachloroethane	3.0	10	ND	
1,3,5-Trimethylbenzene	1.1	10	ND	
1,2,3-Trichloropropane	3.3	10	ND	
4-Chlorotoluene	1.6	10	ND	
2-Chlorotoluene	1.6	10	ND	
tert-Butylbenzene	1.4	10	ND	
1,2,4-Trimethylbenzene	1.1	10	ND	
sec-Butyl Benzene	1.6	10	ND	
p-Isopropyltoluene	1.5	10	ND	
1,3-Dichlorobenzene	1.8	10	ND	
1,4-Dichlorobenzene	1.5	10	ND	
n-Butylbenzene	2.2	10	ND	
1,2-Dichlorobenzene	1.3	10	ND	
1,2-Dibromo-3-Chloropropane	4.2	10	ND	
Hexachlorobutadiene	2.6	10	ND	
1,2,4-Trichlorobenzene	2.1	10	ND	
Naphthalene	2.8	10	ND	
1,2,3-Trichlorobenzene	2.9	10	ND	
(S) Dibromofluoromethane			133	
(S) Toluene-d8			87.6	
(S) 4-Bromofluorobenzene			120	

MB Summary Report

Work Order:	1103139	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404414
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.41	0.50	ND	
Chloromethane	0.41	0.50	ND	
Vinyl Chloride	0.37	0.50	ND	
Bromomethane	0.37	0.50	ND	
Trichlorofluoromethane	0.34	0.50	ND	
1,1-Dichloroethene	0.29	0.50	ND	
Freon 113	0.38	0.50	ND	
Methylene Chloride	0.18	5.0	ND	
trans-1,2-Dichloroethene	0.31	0.50	ND	
MTBE	0.38	0.50	ND	
tert-Butanol	1.5	5.0	ND	
Diisopropyl ether (DIPE)	0.36	0.50	ND	
1,1-Dichloroethane	0.28	0.50	ND	
ETBE	0.40	0.50	ND	
cis-1,2-Dichloroethene	0.33	0.50	ND	
2,2-Dichloropropane	0.37	0.50	ND	
Bromochloromethane	0.34	0.50	ND	
Chloroform	0.29	0.50	ND	
Carbon Tetrachloride	0.26	0.50	ND	
1,1,1-Trichloroethane	0.32	0.50	ND	
1,1-Dichloropropene	0.40	0.50	ND	
Benzene	0.33	0.50	ND	
TAME	0.32	0.50	ND	
1,2-Dichloroethane	0.28	0.50	ND	
Trichloroethylene	0.38	0.50	ND	
Dibromomethane	0.21	0.50	ND	
1,2-Dichloropropane	0.37	0.50	ND	
Bromodichloromethane	0.23	0.50	ND	
2-Chloroethyl vinyl ether	0.91	2.0	ND	
cis-1,3-Dichloropropene	0.30	0.50	ND	
Toluene	0.19	0.50	ND	
Tetrachloroethylene	0.15	0.50	ND	
trans-1,3-Dichloropropene	0.20	0.50	ND	
1,1,2-Trichloroethane	0.20	0.50	ND	
Dibromochloromethane	0.21	0.50	ND	
1,3-Dichloropropane	0.18	0.50	ND	
1,2-Dibromoethane	0.19	0.50	ND	
Chlorobenzene	0.14	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
1,1,1,2-Tetrachloroethane	0.10	0.50	ND	
m,p-Xylene	0.20	1.0	ND	

MB Summary Report

Work Order:	1103139	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404414
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
o-Xylene	0.13	0.50	ND	
Styrene	0.20	0.50	ND	
Bromoform	0.45	1.0	ND	
Isopropyl Benzene	0.28	0.50	ND	
Bromobenzene	0.39	0.50	ND	
1,1,2,2-Tetrachloroethane	0.26	0.50	ND	
n-Propylbenzene	0.30	0.50	ND	
2-Chlorotoluene	0.33	0.50	ND	
1,3,5-Trimethylbenzene	0.20	0.50	ND	
4-Chlorotoluene	0.32	0.50	ND	
tert-Butylbenzene	0.29	0.50	ND	
1,2,3-Trichloropropane	0.59	1.0	ND	
1,2,4-Trimethylbenzene	0.33	0.50	ND	
sec-Butyl Benzene	0.24	0.50	ND	
p-Isopropyltoluene	0.25	0.50	ND	
1,3-Dichlorobenzene	0.31	0.50	ND	
1,4-Dichlorobenzene	0.37	0.50	ND	
n-Butylbenzene	0.32	0.50	ND	
1,2-Dichlorobenzene	0.39	0.50	ND	
1,2-Dibromo-3-Chloropropane	0.45	1.0	ND	
Hexachlorobutadiene	0.22	0.50	ND	
1,2,4-Trichlorobenzene	0.48	1.0	ND	
Naphthalene	0.57	1.0	ND	
1,2,3-Trichlorobenzene	0.52	1.0	ND	
Ethanol	100	100	ND	TIC
(S) Dibromofluoromethane			91.2	
(S) Toluene-d8			83.4	
(S) 4-Bromofluorobenzene			114	

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103139	**Prep Method:**	3510_TPH	**Prep Date:**	03/23/11	**Prep Batch:**	2269
Matrix:	Water	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404370
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.0440	0.10	ND	1	80.2	88.3	9.69	50.3 - 125	30	
Pentacosane (S)			ND	100	99.2	101		57.9 - 125		

Work Order:	1103139	**Prep Method:**	3050	**Prep Date:**	03/24/11	**Prep Batch:**	2272
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404357
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.2	5	ND	50	86.82	80.6	7.40	30.7 - 130	30	
Arsenic	0.28	1.7	ND	50	86.64	79.9	8.10	71 - 121	30	
Barium	1.1	5	ND	50	92.52	88.2	4.76	70.2 - 130	30	
Beryllium	0.084	2	ND	50	93.68	88.3	5.85	73.3 - 115	30	
Cadmium	0.059	1	ND	50	89.12	85.3	4.37	68.7 - 110	30	
Chromium	0.059	5	0.13	50	91.93	87.9	4.44	76 - 116	30	
Cobalt	0.14	5	ND	50	90.68	86.4	4.81	57.4 - 122	30	
Copper	0.09	5	1.2	50	95.73	92.4	3.56	74.8 - 119	30	
Lead	0.13	1	0.21	50	87.56	81.3	7.47	67.9 - 118	30	
Molybdenum	0.059	5	0.15	50	91.58	85.5	6.95	62.9 - 123	30	
Nickel	0.059	5	ND	50	91.04	86.5	5.13	61.5 - 122	30	
Selenium	0.29	5	ND	50	82.49	75.8	8.45	62 - 111	30	
Silver	1	1	ND	50	90.07	85.9	4.82	81.1 - 109	30	
Thallium	0.12	5	0.20	50	85.49	79.9	6.82	39.2 - 125	30	
Vanadium	0.12	5	ND	50	92.74	88.5	4.62	65.8 - 122	30	
Zinc	0.59	5	ND	50	87.12	81.4	6.75	59.9 - 122	30	

Work Order:	1103139	**Prep Method:**	3545_TPH	**Prep Date:**	03/24/11	**Prep Batch:**	2275
Matrix:	Soil	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404369
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.758	2	0.81	33.33	65.0	63.3	2.69	52.7 - 115	30	
Pentacosane (S)			ND	100	72.5	69.6		59.7 - 129		

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103139	**Prep Method:**	5035	**Prep Date:**	03/24/11	**Prep Batch:**	2281
Matrix:	Soil	**Analytical Method:**	8260TPH	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404377
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	17	100	ND	1000	115	119	3.10	48.2 - 132	30	
(S) 4-Bromofluorobenzene			71.6	50	78.7	77.9		57 - 127		

Work Order:	1103139	**Prep Method:**	5030	**Prep Date:**	03/24/11	**Prep Batch:**	2298
Matrix:	Water	**Analytical Method:**	8260TPH	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404414
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	22	50	ND	227.27	99.1	108	8.48	52.4 - 127	30	
(S) 4-Bromofluorobenzene			96.8	11.36	98.2	97.2		58.4 - 133		

Work Order:	1103139	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Soil	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404377
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	1.5	10	ND	50	115	103	11.4	53.7 - 139	30	
Benzene	1.5	10	ND	50	110	106	3.75	66.5 - 135	30	
Trichloroethylene	3.9	10	ND	50	121	108	11.6	57.5 - 150	30	
Toluene	0.98	10	ND	50	83.9	79.2	5.69	56.8 - 134	30	
Chlorobenzene	4.2	10	ND	50	109	109	0.0184	57.4 - 134	30	
(S) Dibromofluoromethane			ND	50	135	131		59.8 - 148		
(S) Toluene-d8			ND	50	88.7	84.8		55.2 - 133		
(S) 4-Bromofluorobenzene			ND	50	109	114		55.8 - 141		

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103139	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404414
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.29	0.50	ND	17.04	87.6	94.7	7.99	61.4 - 129	30	
Benzene	0.33	0.50	ND	17.04	103	110	6.17	66.9 - 140	30	
Trichloroethylene	0.38	0.50	ND	17.04	86.4	86.0	0.341	69.3 - 144	30	
Toluene	0.19	0.50	ND	17.04	80.8	79.7	1.61	76.6 - 123	30	
Chlorobenzene	0.14	0.50	ND	17.04	89.3	91.6	2.66	73.9 - 137	30	
(S) Dibromofluoromethane			ND	11.36	114	120		61.2 - 131		
(S) Toluene-d8			ND	11.36	95.8	91.5		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	11.36	103	114		64.1 - 120		

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103139	**Prep Method:**	3545_TPH	**Prep Date:**	03/24/11	**Prep Batch:**	2275
Matrix:	**Soil**	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404369
Spiked Sample:	1103139-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.76	2.0	12.2847	33.33	76.5	76.3	0.252	50.3 - 125	30	
Pentacosane (S)				100	91.2	90.5		57.9 - 125		

Work Order:	1103139	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	**Soil**	**Analytical Method:**	SW8260B	**Analyzed Date:**	03/24/11	**Analytical Batch:**	404377
Spiked Sample:	1103139-005A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Benzene	1.5	10	0	50	115	103	11.0	66.5 - 135	30	
Toluene	0.98	10	0.79	50	83.1	79.7	4.17	56.8 - 134	30	
(S) Dibromofluoromethane				50	132	135		59.8 - 148		
(S) Toluene-d8				50	83.4	84.2		55.2 - 133		
(S) 4-Bromofluorobenzene				50	106	106		55.8 - 141		

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg.m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Clark Geotechnical

Project Name: 15715 Monterey St, Morgan Hill

Work Order No.: 1103139

Date and Time Received: 3/23/2011 14:00

Received By: NK

Physically Logged By: NK

Checklist Completed By: NK

Carrier Name: Client Droped off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Yes

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes		
Container/Temp Blank temperature in compliance?		Temperature:	°C
Water-VOA vials have zero headspace?			
Water-pH acceptable upon receipt?			

pH Checked by: pH Adjusted by:

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tel: 408.263.5258 | fax: 408.263.8293 | www.torrentlab.com

Login Summary Report

Client ID:	TL5302	Clark Geotechnical	**QC Level:**	
Project Name:	15715 Monterey St, Morgan Hill		**TAT Requested:**	5+ day:0
Project # :			**Date Received:**	3/23/2011
Report Due Date:	3/30/2011		**Time Received:**	14:00

Comments: 5 day TAT! Received 3 soils and 3 waters for TPHg,D,BTEX and Pb only for soils.

Work Order # : ***1103139***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1103139-001A	B1-3 1/2	03/23/11 8:15	Soil	09/19/11			S_6010BCAM17 S_GCMS-GRO S_TPHDO S_8260MBTEX	
Sample Note:	TPHg,BTEX,TPHD,Pb for all soil samples.							
1103139-002A	B1-14'	03/23/11 9:40	Water	09/19/11			W_GCMS-GRO W_TPHDO W_8260MBTEX	
1103139-003A	B2-10 1/2	03/23/11 10:47	Soil	09/19/11			S_6010BCAM17 S_8260MBTEX S_GCMS-GRO S_TPHDO	
1103139-004A	B2-13	03/23/11 11:20	Water	09/19/11			W_GCMS-GRO W_8260MBTEX W_TPHDO	
1103139-005A	B3-15 1/2	03/23/11 12:20	Soil	09/19/11			S_6010BCAM17 S_8260MBTEX S_TPHDO S_GCMS-GRO	
1103139-006A	B3-18'	03/23/11 12:40	Water	09/19/11			W_GCMS-GRO W_TPHDO W_8260MBTEX	

Torrent LABORATORY, INC.

483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO: 1103139

Company Name: Clark GeoTechnical
Address: 1023 Old Canyon Rd
City: Fremont State: CA Zip Code: 94536
Telephone: 510-565-4987 FAX: 510 792-2381
REPORT TO: Michael Clark SAMPLER: Michael Clark

Location of Sampling: 15715 Monterey St, Morgan Hill, CA
Purpose: Former USTs
Special Instructions / Comments:
P.O. #: EMC002 EMAIL: MClark@ClarkGeo.com

TURNAROUND TIME: Normal turn Around
☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day
☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
☐ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE:
☐ Storm Water ☐ Air
☐ Waste Water ☐ Other
☒ Ground Water
☒ Soil

REPORT FORMAT:
☐ QC Level IV
☐ EDF
☐ Excel / EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH, g, btex	Pb lead								REMARKS
001A	B1-3½	3/23/11 8:15 A	S	1	Tube	✓	✓								
002A	B1-14'	9:40	W	4	Liter 3 voA	✓									
003A	B2-10½	10:47	S	1	tube	✓	✓								
004A	B-2-13	11:20	W	4	Liter 3 voa	✓									
005A	B-3-15½	12:20	S	1	tube	✓	✓								
006A	B-3-18'	12:40	W	4	Liter 3 voa	✓									

TORRENT LAB

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	M. Clark	M. Clark	3/23/11	2:00p	M Sabin		3/23/11	2:00p
2								

Were Samples Received in Good Condition? ☒ Yes ☐ NO Samples on Ice? ☒ Yes ☐ NO Method of Shipment Drop off Sample seals intact? ☐ Yes ☐ NO ☒ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Page ____ of ____

Log In By: ____ Date: ____ Log In Reviewed By: ____ Date: ____

Appendix C

Laboratory Test Results
At Former Orchard

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Clark Geotechnical
1023 Old Canyon Rd
Fremont, California 94536
Tel: (510) 656-4987

RE: 15665-15715 Monterey St.

Work Order No.: 1103093

Dear Michael Clark:

Torrent Laboratory, Inc. received 10 sample(s) on March 17, 2011 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock

March 24, 2011
Date

Date: 3/24/2011

Client: Clark Geotechnical

Project: 15665-15715 Monterey St.

Work Order: 1103093

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

.

Sample Result Summary

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

CS-1 1103093-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

CS-2 1103093-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

CS-3 1103093-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

CS-4 1103093-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

CS-5 1103093-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

S-6A 1103093-006

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	3.4	mg/Kg

S-7A 1103093-007

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Sample Result Summary

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

S-8A 1103093-008

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	2.0	mg/Kg

S-9A 1103093-009

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	2.7	mg/Kg

S-10A 1103093-010

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Arsenic	SW6010B	1	0.28	1.7	2.7	mg/Kg

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	CS-1	**Lab Sample ID:**	1103093-001A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 8:27		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
gamma-BHC	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
beta-BHC	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
delta-BHC	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Heptachlor	SW8081A	3/18/11	03/21/11	1	1.1	2.0	ND		ug/Kg	404344	2252
Aldrin	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
Heptachlor epoxide	SW8081A	3/18/11	03/21/11	1	0.32	2.0	ND		ug/Kg	404344	2252
gamma-Chlordane	SW8081A	3/18/11	03/21/11	1	0.42	2.0	ND		ug/Kg	404344	2252
alpha-Chlordane	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
Endosulfan I	SW8081A	3/18/11	03/21/11	1	0.59	2.0	ND		ug/Kg	404344	2252
4,4'-DDE	SW8081A	3/18/11	03/21/11	1	0.48	2.0	ND		ug/Kg	404344	2252
Dieldrin	SW8081A	3/18/11	03/21/11	1	0.43	2.0	ND		ug/Kg	404344	2252
Endrin	SW8081A	3/18/11	03/21/11	1	0.57	2.0	ND		ug/Kg	404344	2252
4,4'-DDD	SW8081A	3/18/11	03/21/11	1	0.47	2.0	ND		ug/Kg	404344	2252
Endosulfan II	SW8081A	3/18/11	03/21/11	1	1.5	2.0	ND		ug/Kg	404344	2252
4,4'-DDT	SW8081A	3/18/11	03/21/11	1	0.81	2.0	ND		ug/Kg	404344	2252
Endrin aldehyde	SW8081A	3/18/11	03/21/11	1	1.0	2.0	ND		ug/Kg	404344	2252
Endosulfan sulfate	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Methoxychlor	SW8081A	3/18/11	03/21/11	1	0.62	5.0	ND		ug/Kg	404344	2252
Endrin Ketone	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
Chlordane	SW8081A	3/18/11	03/21/11	1	10	20	ND		ug/Kg	404344	2252
Toxaphene	SW8081A	3/18/11	03/21/11	1	10	10	ND		ug/Kg	404344	2252
TCMX (S)	SW8081A	3/18/11	03/21/11	1	52.5	139	82.1		%	404344	2252
DCBP (S)	SW8081A	3/18/11	03/21/11	1	50.2	139	80.4		%	404344	2252

NOTE: Toxaphene reported to the MDL.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	CS-2	**Lab Sample ID:**	1103093-002A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 8:45		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
gamma-BHC	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
beta-BHC	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
delta-BHC	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Heptachlor	SW8081A	3/18/11	03/21/11	1	1.1	2.0	ND		ug/Kg	404344	2252
Aldrin	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
Heptachlor epoxide	SW8081A	3/18/11	03/21/11	1	0.32	2.0	ND		ug/Kg	404344	2252
gamma-Chlordane	SW8081A	3/18/11	03/21/11	1	0.42	2.0	ND		ug/Kg	404344	2252
alpha-Chlordane	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
Endosulfan I	SW8081A	3/18/11	03/21/11	1	0.59	2.0	ND		ug/Kg	404344	2252
4,4'-DDE	SW8081A	3/18/11	03/21/11	1	0.48	2.0	ND		ug/Kg	404344	2252
Dieldrin	SW8081A	3/18/11	03/21/11	1	0.43	2.0	ND		ug/Kg	404344	2252
Endrin	SW8081A	3/18/11	03/21/11	1	0.57	2.0	ND		ug/Kg	404344	2252
4,4'-DDD	SW8081A	3/18/11	03/21/11	1	0.47	2.0	ND		ug/Kg	404344	2252
Endosulfan II	SW8081A	3/18/11	03/21/11	1	1.5	2.0	ND		ug/Kg	404344	2252
4,4'-DDT	SW8081A	3/18/11	03/21/11	1	0.81	2.0	ND		ug/Kg	404344	2252
Endrin aldehyde	SW8081A	3/18/11	03/21/11	1	1.0	2.0	ND		ug/Kg	404344	2252
Endosulfan sulfate	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Methoxychlor	SW8081A	3/18/11	03/21/11	1	0.62	5.0	ND		ug/Kg	404344	2252
Endrin Ketone	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
Chlordane	SW8081A	3/18/11	03/21/11	1	10	20	ND		ug/Kg	404344	2252
Toxaphene	SW8081A	3/18/11	03/21/11	1	10	10	ND		ug/Kg	404344	2252
TCMX (S)	SW8081A	3/18/11	03/21/11	1	52.5	139	79.7		%	404344	2252
DCBP (S)	SW8081A	3/18/11	03/21/11	1	50.2	139	73.6		%	404344	2252

NOTE: Toxaphene reported to the MDL.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	CS-3	**Lab Sample ID:**	1103093-003A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 8:59		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
gamma-BHC	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
beta-BHC	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
delta-BHC	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Heptachlor	SW8081A	3/18/11	03/21/11	1	1.1	2.0	ND		ug/Kg	404344	2252
Aldrin	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
Heptachlor epoxide	SW8081A	3/18/11	03/21/11	1	0.32	2.0	ND		ug/Kg	404344	2252
gamma-Chlordane	SW8081A	3/18/11	03/21/11	1	0.42	2.0	ND		ug/Kg	404344	2252
alpha-Chlordane	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
Endosulfan I	SW8081A	3/18/11	03/21/11	1	0.59	2.0	ND		ug/Kg	404344	2252
4,4'-DDE	SW8081A	3/18/11	03/21/11	1	0.48	2.0	ND		ug/Kg	404344	2252
Dieldrin	SW8081A	3/18/11	03/21/11	1	0.43	2.0	ND		ug/Kg	404344	2252
Endrin	SW8081A	3/18/11	03/21/11	1	0.57	2.0	ND		ug/Kg	404344	2252
4,4'-DDD	SW8081A	3/18/11	03/21/11	1	0.47	2.0	ND		ug/Kg	404344	2252
Endosulfan II	SW8081A	3/18/11	03/21/11	1	1.5	2.0	ND		ug/Kg	404344	2252
4,4'-DDT	SW8081A	3/18/11	03/21/11	1	0.81	2.0	ND		ug/Kg	404344	2252
Endrin aldehyde	SW8081A	3/18/11	03/21/11	1	1.0	2.0	ND		ug/Kg	404344	2252
Endosulfan sulfate	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Methoxychlor	SW8081A	3/18/11	03/21/11	1	0.62	5.0	ND		ug/Kg	404344	2252
Endrin Ketone	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
Chlordane	SW8081A	3/18/11	03/21/11	1	10	20	ND		ug/Kg	404344	2252
Toxaphene	SW8081A	3/18/11	03/21/11	1	10	10	ND		ug/Kg	404344	2252
TCMX (S)	SW8081A	3/18/11	03/21/11	1	52.5	139	81.9		%	404344	2252
DCBP (S)	SW8081A	3/18/11	03/21/11	1	50.2	139	82.8		%	404344	2252

NOTE: Toxaphene reported to the MDL.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	CS-4	**Lab Sample ID:**	1103093-004A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 9:17		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
gamma-BHC	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
beta-BHC	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
delta-BHC	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Heptachlor	SW8081A	3/18/11	03/21/11	1	1.1	2.0	ND		ug/Kg	404344	2252
Aldrin	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
Heptachlor epoxide	SW8081A	3/18/11	03/21/11	1	0.32	2.0	ND		ug/Kg	404344	2252
gamma-Chlordane	SW8081A	3/18/11	03/21/11	1	0.42	2.0	ND		ug/Kg	404344	2252
alpha-Chlordane	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
Endosulfan I	SW8081A	3/18/11	03/21/11	1	0.59	2.0	ND		ug/Kg	404344	2252
4,4'-DDE	SW8081A	3/18/11	03/21/11	1	0.48	2.0	ND		ug/Kg	404344	2252
Dieldrin	SW8081A	3/18/11	03/21/11	1	0.43	2.0	ND		ug/Kg	404344	2252
Endrin	SW8081A	3/18/11	03/21/11	1	0.57	2.0	ND		ug/Kg	404344	2252
4,4'-DDD	SW8081A	3/18/11	03/21/11	1	0.47	2.0	ND		ug/Kg	404344	2252
Endosulfan II	SW8081A	3/18/11	03/21/11	1	1.5	2.0	ND		ug/Kg	404344	2252
4,4'-DDT	SW8081A	3/18/11	03/21/11	1	0.81	2.0	ND		ug/Kg	404344	2252
Endrin aldehyde	SW8081A	3/18/11	03/21/11	1	1.0	2.0	ND		ug/Kg	404344	2252
Endosulfan sulfate	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Methoxychlor	SW8081A	3/18/11	03/21/11	1	0.62	5.0	ND		ug/Kg	404344	2252
Endrin Ketone	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
Chlordane	SW8081A	3/18/11	03/21/11	1	10	20	ND		ug/Kg	404344	2252
Toxaphene	SW8081A	3/18/11	03/21/11	1	10	10	ND		ug/Kg	404344	2252
TCMX (S)	SW8081A	3/18/11	03/21/11	1	52.5	139	82.2		%	404344	2252
DCBP (S)	SW8081A	3/18/11	03/21/11	1	50.2	139	83.3		%	404344	2252

NOTE: Toxaphene reported to the MDL.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	CS-5	**Lab Sample ID:**	1103093-005A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 9:27		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
gamma-BHC	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
beta-BHC	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
delta-BHC	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Heptachlor	SW8081A	3/18/11	03/21/11	1	1.1	2.0	ND		ug/Kg	404344	2252
Aldrin	SW8081A	3/18/11	03/21/11	1	0.44	2.0	ND		ug/Kg	404344	2252
Heptachlor epoxide	SW8081A	3/18/11	03/21/11	1	0.32	2.0	ND		ug/Kg	404344	2252
gamma-Chlordane	SW8081A	3/18/11	03/21/11	1	0.42	2.0	ND		ug/Kg	404344	2252
alpha-Chlordane	SW8081A	3/18/11	03/21/11	1	0.36	2.0	ND		ug/Kg	404344	2252
Endosulfan I	SW8081A	3/18/11	03/21/11	1	0.59	2.0	ND		ug/Kg	404344	2252
4,4'-DDE	SW8081A	3/18/11	03/21/11	1	0.48	2.0	ND		ug/Kg	404344	2252
Dieldrin	SW8081A	3/18/11	03/21/11	1	0.43	2.0	ND		ug/Kg	404344	2252
Endrin	SW8081A	3/18/11	03/21/11	1	0.57	2.0	ND		ug/Kg	404344	2252
4,4'-DDD	SW8081A	3/18/11	03/21/11	1	0.47	2.0	ND		ug/Kg	404344	2252
Endosulfan II	SW8081A	3/18/11	03/21/11	1	1.5	2.0	ND		ug/Kg	404344	2252
4,4'-DDT	SW8081A	3/18/11	03/21/11	1	0.81	2.0	ND		ug/Kg	404344	2252
Endrin aldehyde	SW8081A	3/18/11	03/21/11	1	1.0	2.0	ND		ug/Kg	404344	2252
Endosulfan sulfate	SW8081A	3/18/11	03/21/11	1	0.49	2.0	ND		ug/Kg	404344	2252
Methoxychlor	SW8081A	3/18/11	03/21/11	1	0.62	5.0	ND		ug/Kg	404344	2252
Endrin Ketone	SW8081A	3/18/11	03/21/11	1	0.40	2.0	ND		ug/Kg	404344	2252
Chlordane	SW8081A	3/18/11	03/21/11	1	10	20	ND		ug/Kg	404344	2252
Toxaphene	SW8081A	3/18/11	03/21/11	1	10	10	ND		ug/Kg	404344	2252
TCMX (S)	SW8081A	3/18/11	03/21/11	1	52.5	139	84.6		%	404344	2252
DCBP (S)	SW8081A	3/18/11	03/21/11	1	50.2	139	83.0		%	404344	2252

NOTE: Toxaphene reported to the MDL.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	S-6A	**Lab Sample ID:**	1103093-006A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 10:02		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW6010B	3/21/11	03/21/11	1	0.28	1.7	3.4		mg/Kg	404317	2254

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	S-7A	**Lab Sample ID:**	1103093-007A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 10:20		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW6010B	3/21/11	03/21/11	1	0.28	1.7	ND		mg/Kg	404317	2254

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	S-8A	**Lab Sample ID:**	1103093-008A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 10:38		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW6010B	3/21/11	03/21/11	1	0.28	1.7	2.0		mg/Kg	404317	2254

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	S-9A	**Lab Sample ID:**	1103093-009A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 10:56		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW6010B	3/21/11	03/21/11	1	0.28	1.7	2.7		mg/Kg	404317	2254

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Michael Clark
Clark Geotechnical

Date Received: 03/17/11
Date Reported: 03/24/11

Client Sample ID:	S-10A	**Lab Sample ID:**	1103093-010A
Project Name/Location:	15665-15715 Monterey St.	**Sample Matrix:**	Soil
Project Number:			
Date/Time Sampled:	03/17/11 / 11:20		
Tag Number:	15665-15715 Monterey St.		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Arsenic	SW6010B	3/21/11	03/21/11	1	0.28	1.7	2.7		mg/Kg	404317	2254

MB Summary Report

Work Order:	1103093	**Prep Method:**	3545_OCP	**Prep Date:**	03/18/11	**Prep Batch:**	2252
Matrix:	Soil	**Analytical Method:**	SW8081A	**Analyzed Date:**	03/21/11	**Analytical Batch:**	404344
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.44	2.0	ND	
gamma-BHC	0.40	2.0	ND	
beta-BHC	0.36	2.0	ND	
delta-BHC	0.49	2.0	ND	
Heptachlor	1.1	2.0	ND	
Aldrin	0.44	2.0	ND	
Heptachlor epoxide	0.32	2.0	ND	
gamma-Chlordane	0.42	2.0	ND	
alpha-Chlordane	0.36	2.0	ND	
Endosulfan I	0.59	2.0	ND	
4,4'-DDE	0.48	2.0	ND	
Dieldrin	0.43	2.0	ND	
Endrin	0.57	2.0	ND	
4,4'-DDD	0.47	2.0	ND	
Endosulfan II	1.5	2.0	ND	
4,4'-DDT	0.81	2.0	ND	
Endrin aldehyde	1.0	2.0	ND	
Endosulfan sulfate	0.49	2.0	ND	
Methoxychlor	0.62	5.0	ND	
Endrin Ketone	0.40	2.0	ND	
Chlordane	10	20	ND	
Toxaphene	10	100	ND	
TCMX (S)			86.5	
DCBP (S)			88.5	

MB Summary Report

Work Order:	1103093	**Prep Method:**	3050	**Prep Date:**	03/21/11	**Prep Batch:**	2254
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	03/21/11	**Analytical Batch:**	404317
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	ND	
Arsenic	0.28	1.7	ND	
Barium	1	5.0	ND	
Beryllium	0.0840	2.0	ND	
Cadmium	0.059	1.0	ND	
Chromium	0.059	5.0	0.090	
Cobalt	0.14	5.0	ND	
Copper	0.090	5.0	0.36	
Lead	0.043	1.0	0.20	
Molybdenum	0.059	5.0	ND	
Nickel	0.059	5.0	0.11	
Selenium	0.29	5.0	ND	
Silver	1.0	1.0	ND	
Thallium	0.12	5.0	ND	
Vanadium	0.12	5.0	ND	
Zinc	0.59	5.0	ND	

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103093	**Prep Method:**	3545_OCP	**Prep Date:**	03/18/11	**Prep Batch:**	2252
Matrix:	Soil	**Analytical Method:**	SW8081A	**Analyzed Date:**	03/21/11	**Analytical Batch:**	404344
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.40	2.0	ND	20	90.5	103	13.2	56.9 - 120	30	
Heptachlor	1.1	2.0	ND	20	79.3	94.1	17.1	63.6 - 117	30	
Aldrin	0.44	2.0	ND	20	82.5	101	20.2	53 - 123	30	
Dieldrin	0.43	2.0	ND	20	80.3	102	24.0	44 - 130	30	
Endrin	0.57	2.0	ND	20	78.1	100	24.7	44.1 - 121	30	
4,4'-DDT	0.81	2.0	ND	20	73.1	95.5	26.7	52.8 - 134	30	
TCMX (S)			ND	350	79.8	93.0		52.5 - 139		
DCBP (S)			ND	350	69.8	92.4		50.2 - 139		

Work Order:	1103093	**Prep Method:**	3050	**Prep Date:**	03/21/11	**Prep Batch:**	2254
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	03/21/11	**Analytical Batch:**	404317
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.2	5	ND	50	90.5	90.2	0.288	30.7 - 130	30	
Arsenic	0.28	1.7	ND	50	89.62	89.4	0.268	71 - 121	30	
Barium	1.1	5	ND	50	95.57	94.2	1.46	70.2 - 130	30	
Beryllium	0.084	2	ND	50	94.41	93.3	0.747	73.3 - 115	30	
Cadmium	0.059	1	ND	50	89.04	87.7	1.44	68.7 - 110	30	
Chromium	0.059	5	0.090	50	95.18	93.5	1.78	76 - 116	30	
Cobalt	0.14	5	ND	50	93.66	92.9	0.890	57.4 - 122	30	
Copper	0.09	5	0.36	50	96.8	95.3	1.52	74.8 - 119	30	
Lead	0.13	1	0.20	50	92.14	91.9	0.239	67.9 - 118	30	
Molybdenum	0.059	5	ND	50	96.27	96.3	0.0519	62.9 - 123	30	
Nickel	0.059	5	0.11	50	94.09	93.0	1.15	61.5 - 122	30	
Selenium	0.29	5	ND	50	85.91	87.2	1.49	62 - 111	30	
Silver	1	1	ND	50	92.99	92.0	1.11	81.1 - 109	30	
Thallium	0.12	5	ND	50	88.81	89.3	0.517	39.2 - 125	30	
Vanadium	0.12	5	ND	50	95.28	93.8	1.62	65.8 - 122	30	
Zinc	0.59	5	ND	50	84.02	82.4	1.91	59.9 - 122	30	

MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1103093	**Prep Method:**	3545_OCP	**Prep Date:**	03/18/11	**Prep Batch:**	2252
Matrix:	**Soil**	**Analytical Method:**	SW8081A	**Analyzed Date:**	03/21/11	**Analytical Batch:**	404344
Spiked Sample:	1103093-001A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aldrin	0.44	2.0	0	20	93.2	83.0	11.6	53 - 123	30	
gamma-BHC	0.40	2.0	0	20	98.0	88.7	9.93	56.9 - 120	30	
Heptachlor	1.1	2.0	0	20	87.0	81.4	6.63	63.6 - 117	30	
Dieldrin	0.43	2.0	0.1461	20	93.6	81.4	13.9	44 - 130	30	
Endrin	0.57	2.0	0	20	96.7	83.8	14.4	44.1 - 121	30	
4,4'-DDT	0.81	2.0	0.5852	20	91.1	79.0	13.7	52.8 - 134	30	
TCMX (S)				350	84.6	83.0		52.5 - 139		
DCBP (S)				350	80.4	72.3		50.2 - 139		

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg.m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Clark Geotechnical

Project Name: 15665-15715 Monterey St.

Work Order No.: 1103093

Date and Time Received: 3/17/2011 12:25

Received By: NG

Physically Logged By: NG

Checklist Completed By: NG

Carrier Name: Client Droped off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	No
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes		
Container/Temp Blank temperature in compliance?		Temperature:	°C
Water-VOA vials have zero headspace?	No VOA vials submitted		
Water-pH acceptable upon receipt?			
pH Checked by:	pH Adjusted by:		

Samples received @ room temperature.

Login Summary Report

Client ID: TL5302 Clark Geotechnical

Project Name: 15665-15715 Monterey St.

Project # :

Report Due Date: 3/24/2011

QC Level:

TAT Requested: 5+ day:0

Date Received: 3/17/2011

Time Received: 12:25

Comments: 5 day TAT! Received 10 soils,5 for 8081 and 5 for Arsenic.

Work Order # : ***1103093***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1103093-001A	CS-1	03/17/11 8:27	Soil	09/13/11				
							S_8081AOCP	
Sample Note:	Detection limits: aldrin & dialdrin - 0.005mg/Kg; toxaphane - 0.05mg/Kg							
1103093-002A	CS-2	03/17/11 8:45	Soil	09/13/11				
							S_8081AOCP	
1103093-003A	CS-3	03/17/11 8:59	Soil	09/13/11				
							S_8081AOCP	
1103093-004A	CS-4	03/17/11 9:17	Soil	09/13/11				
							S_8081AOCP	
1103093-005A	CS-5	03/17/11 9:27	Soil	09/13/11				
							S_8081AOCP	
1103093-006A	S-6A	03/17/11 10:02	Soil	09/13/11				
							S_6010BCAM17	
Sample Note:	Metals As for samples 006A to 010A.							
1103093-007A	S-7A	03/17/11 10:20	Soil	09/13/11				
							S_6010BCAM17	
Sample Note:	Sample # 008 cannot be identified correctly, as there are two samples with 007A i.d.							
1103093-008A	S-8A	03/17/11 10:38	Soil	09/13/11				
							S_6010BCAM17	
Sample Note:	Sample # 008 cannot be identified correctly, as there are two samples with 007A i.d.							
1103093-009A	S-9A	03/17/11 10:56	Soil	09/13/11				
							S_6010BCAM17	
1103093-010A	S-10A	03/17/11 11:20	Soil	09/13/11				
							S_6010BCAM17	

Torrent LABORATORY, INC.

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO: 1103093

Company Name: Clark GeoTechnical	Location of Sampling: 15665-15715 Monterey St, Morgan Hill
Address: 1023 Old Canyon Rd	Purpose: Pesticide + arsenic testing in former orchard
City: Fremont State: CA Zip Code: 94536	Special Instructions / Comments: Detection limits for aldrin and dieldrin = 0.005 mg/kg and toxaphene = 0.05 mg/kg
Telephone: 510-565-4987 FAX: 510-792-2381	
REPORT TO: Michael Clark SAMPLER: Michael Clark	P.O. #: EMAIL:

TURNAROUND TIME: Normal turnaround
- ☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day
- ☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
- ☐ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE:
- ☐ Storm Water ☐ Air
- ☐ Waste Water ☐ Other
- ☐ Ground Water
- ☒ Soil

REPORT FORMAT:
- ☐ QC Level IV
- ☐ EDF
- ☐ Excel / EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	OPC 8081A	Arsenic								REMARKS
001A	CS-1	3/17/11 8:27A	S	1	bag	✓									
002A	CS-2	" 8:45A	S	1	"	✓									
003A	CS-3	" 9:59	S	1	"	✓									
004A	CS-4	" 9:17	S	1	"	✓									
005A	CS-5	" 9:27	S	1	"	✓									
006A	S-6A	" 10:02	S	1	"		✓								
007A	S-7A	" 10:20	S	1	"		✓								
008A	S-8A	" 10:38	S	1	"		✓								
009A	S-9A	" 10:56	S	1	"		✓								
010A	S-10A	" 11:20A	S	1	"		✓								

TORRENT LAB

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	Michael Clark	Michael Clark	3/17/11	12:25p	[signature]	NAVIN G.	3-17-11	12:25 p.m.
2								

Were Samples Received in Good Condition? ☑ Yes ☐ NO Samples on Ice? ☐ Yes ☑ NO Method of Shipment D/off Sample seals intact? ☐ Yes ☐ NO ☑ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Page 1 of 1

Log In By: _____ Date: _____ Log In Reviewed By: _____ Date: _____