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Environmental Health

August 3, 2011

Reference:

Underground Storage Tank Removal Report

Former F&M Auto Service UST Site

1839 Foothill Boulevard

Oakland, Alameda County, California 94606

Alameda County, Case #: RO 3077

PERJURY STATEMENT

As the Responsible Party (RP) for this Site, I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Mary K. Wright Responsible Party Doto



June 3, 2011

Ms. Sheryl Skillern
Oakland Fire Department
Hazardous Materials Management Program
250 Frank H. Ogawa Plaza, #3341
Oakland, CA 94612

Subject:

Underground Storage Tank Removal Report Former F&M Auto Service UST Site

1839 Foothill Boulevard Oakland, California 94606

Dear Ms. Skillern:

On behalf of Ms. Mary Wright, current property owner, and Mr. James Balsley, prospective property owner, (Owners) Sierra West Consultants, Inc. (Sierra West) is pleased to provide this *Underground Storage Tank (UST) Removal Report* for activities conducted at the Former F&M Auto Service UST Site located at 1839 Foothill Boulevard, Oakland, California (Site). This work was conducted pursuant to the Oakland Fire Department's Notice to Comply dated May 19, 2010 for Permit Number 20-2178. The work has been funded by a grant through the State of California Water Resources Control Board, Orphan Site Cleanup Fund.

The site is located at the northwest corner of the intersection of Foothill Boulevard and 19th Avenue, in Oakland, California. A Site Location Map is included as **Figure 1**. This report documents building demolition and UST removal activities that were performed from March 29, 2011 through April 13, 2011. Building demolition and UST removal was performed consistent with Sierra West's *Updated Work Plan for Underground Storage Tank Removal*, submitted to the Oakland Fire Department (OFD) March 2, 2011, and approved on March 4, 2011.

SITE BACKGROUND

The Site is identified by Alameda County Assessors Parcel Number 20-164-6, and is a rectangular shaped lot surrounded by a chain link fence with approximate dimensions of 100 feet long by 40 feet wide. The Site is a former gasoline service station that is estimated to have been constructed sometime during the 1950's. The service station ceased operation in 1995 and an auto detailing service operated at the property from 1997 through 2001. The property has been unoccupied since 2001. The southern section of the Site consisted of a small metal-framed retail building with an overhead canopy that covered a concrete pad and a dispenser island containing three gasoline pumps. The northern section of the Site consisted of a metal-framed structure which included a storage shed, an auto service garage, and a canopy that covered oil containers and other equipment.

There were four USTs at the Site. At the southern end of the Site there were two 1,000-gallon USTs (UST#1 and UST#2), at the central portion of the Site there was one 550-gallon UST (UST#3), and at the



northern end of the Site there was one 100-gallon UST (UST#4). Locations of former site features, including structures and USTs, are shown on the Site Plan included as Figure 2.

PERMITTING, NOTIFICATIONS, AND UTILITIES

Prior to field activities, a Building Demolition Permit was obtained from the City of Oakland Community and Economic Development Agency, and an Underground Storage Tank System Closure Permit was obtained from the City of Oakland Office of the Fire Marshall. The Bay Area Air Quality Management District (BAAQMD) was notified of planned building demolition at least 10 days prior to the commencement of field activities, consistent with BAAQMD requirements. BAAQMD Job No. 3N694 was issued for building demolition.

Underground Service Alert marked the locations of subsurface utilities in the vicinity of the work. Additionally, Precision Locating, an independent utility locating company, located buried utilities at the Site. Utility disconnects were provided for water and sewer service to the Site, and electrical service disconnection was coordinated with Pacific Gas and Electric.

ASBESTOS SURVEY

Prior to building demolition activities, Anderson Environmental Consulting Group (AEC) performed a survey of the site structures for asbestos containing materials (ACM). AEC performed an asbestos survey on January 6, 2011 and identified approximately 50 square feet of black roofing material as potentially containing ACM. Laboratory analysis of the black roofing material indicated that it contained approximately 3% chrysotile asbestos, and was classified as Category 1 Non-Friable Material.

ASBESTOS AND LEAD BASED PAINT ABATEMENT

On March 29 and 30, 2011, Element 26 Contracting of Rancho Cordova, California (Element 26), a licensed asbestos abatement contractor registered with Cal-OSHA, performed abatement of ACM and lead based paint present at the Site. Asbestos abatement was performed by wetting all ACM with clean water, then scraping the ACM off of the structures and double-bagging it and sealing the bags with duct tape. Lead based paint abatement was performed similarly, by wetting all surfaces requiring abatement, then scraping the lead based paint off of the structures and double-bagging it and sealing the bags with duct tape. During abatement activities, polyethylene sheeting was placed on the ground below all areas requiring abatement to contain any dust or debris generated during abatement.

Approximately 700 pounds (lbs) of ACM from the buildings was transported to the L and D Landfill, located in Sacramento, California, and was disposed of as non-friable asbestos, a non-hazardous waste. Approximately 200 lbs of lead based paint from the buildings was transported to US Ecology Nevada disposal facility, located near Beatty, Nevada, and was disposed of as hazardous waste. Copies of the waste disposal manifests are included in **Attachment A**.

BUILDING DEMOLITION

On March 31, 2011, Element 26 demolished the existing site structures. In accordance with BAAQMD requirements, the Site structures were wetted prior to and during demolition to minimize generation of airborne dust. Photographs of the Site before, during, and after building demolition are included in **Attachment B**. The structures were razed in a manner that enhanced waste stream diversion. During demolition, recyclable scrap metal, asphalt, concrete, and other debris were segregated from non-recyclable materials to maximize recycling opportunities.



Approximately 20,000 pounds (lbs) of scrap metals generated during demolition were taken to Schnitzer Steel, located in Oakland, California, for recycling. Approximately 51,000 lbs (approximately 19 cubic yards [yd³]) of concrete and asphalt were taken to Inner City Recycling, located in Oakland, California, for recycling, and nearly 12,000 lbs of other debris was taken to the Keifer Landfill Facility, located in Sacramento County, for disposal. Copies of recycling and disposal documentation for building materials are included in Attachment C.

UNDERGROUND STORAGE TANK REMOVAL

Prior to removal, each UST was inspected for residual liquids. UST#1 contained approximately 200 gallons of an unleaded gasoline and sludge mixture, UST#3 contained approximately 150 gallons of a leaded gasoline and water mixture, and UST#4 contained approximately 50 gallons of oil. UST#2 was empty upon inspection. On April 5, 2011, the liquids and sludge were removed from the USTs using a vacuum pump. The USTs and associated product piping were then triple-rinsed. A copy of the triple-rinse certification is included in Attachment D.

Solid carbon dioxide (dry ice) was deposited in each UST at a ratio of at least 25 pounds of dry ice per 1,000 gallons of tank volume to purge flammable vapors prior to removing the tanks. A photoionization detector (PID) with a 10.6 electron volt lamp was used to evaluate concentrations of volatile organic compounds (VOCs) during purging of flammable vapors from the tank. PID measurements collected during purging of flammable vapors from the USTs are presented in the table below. Immediately prior to tank removal, the lower explosive limit (LEL) and oxygen levels (O₂) inside each tank were measured using a multi-gas meter calibrated to assess these indicators. LEL and O₂ measurements from inside each tank are presented in the table below.

	VOCs (ppm)	O2 (%)	LEL (%)
UST#1	104	4.1	15
UST#2	840	2.9	14
UST#3	35	15	5
UST#4	0	20.9	0

A visual inspection was performed to assess if there were any holes or other deficiencies in the tank walls. At UST#1 a 1-inch hole was discovered along the western edge of the tank, and several smaller holes were discovered along the bottom of the tank. At UST#2, no holes or deficiencies were observed, however soil beneath and surrounding the UST showed signs of hydrocarbon impacts such as odor and the visual observation of discolored soils. At UST#3 a 1-inch hole was discovered along the bottom of the tank, and a 6-inch hole was discovered on the southern end of the tank. At UST#4 corrosion and pitting were observed in the tank walls, and multiple holes were found ranging in size from small pinholes to large holes (approximately three inches by six inches). After triple rinsing, the air inside of UST#4 was measured at atmospheric levels with no detected presence of VOCs or explosive compounds. The decision to forego dry ice purging in UST#4 was made with approval from the on-site inspector from the Oakland Fire Department.

EXCAVATION AND STOCKPILING

Three excavations were performed to remove the USTs. The first excavation included UST#1 and UST#2. These two USTs had identical construction, each having a capacity of 1,000 gallons, a diameter



of 4 feet, and a length of 11 feet. The depth to the top of each UST was approximately 6.5 feet below ground surface (bgs), and the depth to the bottom was approximately 10.5 feet bgs. Hydrocarbon impacts were observed in soil surrounding the USTs, and overexcavation was performed to approximately 13 feet bgs. The final dimensions of this excavation were approximately 18 feet wide by 18 feet long by 13 feet deep. Approximately 146 yd³ of soil were removed from this excavation.

The second excavation was for the removal of UST#3. UST#3 had a capacity of 550 gallons, a diameter of 4 feet, and a length of 6 feet. The depth to the top of UST#3 was approximately 5 feet bgs, and the depth to the bottom was approximately 9 feet bgs. Hydrocarbon impacts were observed in soil directly beneath the UST, and overexcavation was performed to approximately 13 feet bgs. The final dimensions of this excavation were approximately 10 feet wide by 11 feet long by 13 feet deep. Approximately 50 yd³ of soil were removed from this excavation.

The third excavation was for the removal of UST#4. UST#4 had a capacity of 100 gallons, a diameter of 2 feet, and a length of 4 feet. The depth to the top of UST#4 was approximately 3 feet bgs, and the depth to the bottom was approximately 5 feet bgs. Hydrocarbon impacts were observed in soil directly beneath and surrounding the UST, and overexcavation was performed to approximately 6.5 feet bgs. The final dimensions of this excavation were approximately 8 feet wide by 8 feet long by 6.5 feet deep. Approximately 15 yd³ of soil were removed from this excavation.

Soils from beneath the dispenser island and product piping were also excavated to an approximate depth of 5 feet bgs. Product piping excavations extended laterally approximately 2.5 feet on either side of the piping. Approximately 23 yd³ of soil were removed from the excavation of the dispenser island and product piping.

The excavations remained dry (free from groundwater) throughout the project. Approximately 234 yd³ of soil was excavated and stockpiled. Soils excavated above the top of each tank were stockpiled separately as clean overburden (approximately 110 yd³). Approximate depths and locations of each excavation are shown on **Figure 3**. Excavated soil was stockpiled on polyethylene sheeting directly adjacent to or in the immediate vicinity of each excavation. To minimize erosion and aeration of soils, each soil stockpile was covered with polyethylene sheeting, and straw waddles were placed around the edges of the stockpile. Additionally, straw waddles were placed along the downstream boundary of the Site.

A four-point composite sample was collected from stockpiled soils (STOCKPILE[A,B,C,D]) for waste characterization. The composite sample was analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tert-butyl ether (MTBE) by Environmental Protection Agency (EPA) Method 8260B, and for CAM 17 metals by EPA Method 6010B. An additional four-point composite sample was collected from stockpiled soils (STOCKPILE-2[A,B,C,D]) and was analyzed for fuel oxygenates and chlorinated hydrocarbons by EPA Method 8260B, total petroleum hydrocarbons as diesel and total petroleum hydrocarbons as motor oil by EPA Method 8015, and for polychlorinated biphenyl (PCBs), pentachlorophenol, polynuclear aromatic hydrocarbons, and creosote constituents by EPA Method 8270. Copies of the laboratory analytical reports for characterization of contaminated soils are included in **Attachment E**, and results are summarized below.

TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Lead	Chromium
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
34.6	<0.5	0.405	0.424	6.69	<0.005	39.8	50.4



Chemical concentrations detected in the waste characterization samples were compared to California Title 22 regulations for characteristics of toxicity (Department of Toxic Substances Control, Office of Environmental Analysis, Audits and Regulations, 2005). All constituents were below their respective regulatory levels, with the exception of chromium that was detected at a concentration of 50.4 milligrams per kilogram (mg/kg), slightly greater than the regulatory limit of 50 mg/kg. As such, a soluble threshold limit concentration (STLC) analysis for chromium was subsequently performed. Concentrations of soluble chromium were not detected above the STLC reporting limit of 0.50 milligrams per liter (mg/L).

Approximately 100 yd³ of contaminated soil was transported to Recology Hay Road, a Class II landfill located in Vacaville, California, for disposal. Copies of the disposal manifests for contaminated soils are included in **Attachment A**.

SAMPLING AND ANALYSIS

Sierra West collected soil samples from each of the excavations to evaluate whether chemical impacts are present in the subsurface. At each UST location, two soil samples were collected beneath each tank (1A and 1B through 4A and 4B). Approximately two feet of native soil was removed prior to collecting these soil samples. Sidewall samples were also collected on the eastern and western edges of each excavation, approximately two feet above the base of the excavation (1S, 2S, 3SW, 3SE, 4SW, and 4SE). Additionally, two soil samples were collected from beneath the dispenser island (DI-1 and DI-2), and two soil samples were collected from beneath the fuel line piping (FL-1 and FL-2). Soil sample locations are shown on Figure 3.

Soil samples were collected from each UST investigation by bringing soil to the surface using a backhoe and collecting the samples from the backhoe bucket. Soil samples were collected in pre-cleaned stainless-steel sample liners. Following collection, the ends of each liner were covered with Teflon sheets, capped with polyethylene lids, and sealed with duct tape. Soil samples were then labeled and immediately placed in an ice cooled, insulated chest. Soil samples were delivered under chain of custody protocol to Accutest Laboratories, a State of California certified laboratory located in San Jose, California. The soil samples were analyzed for TPHg, BTEX, and MTBE by EPA Method 8260B, and for total lead by EPA Method 6010B. A copy of the certified laboratory analytical report is presented in **Attachment F**.

SUMMARY OF ANALYTICAL RESULTS

Soil analytical results are summarized in **Table 1** and shown on **Figure 4**. The constituent concentrations are also compared to the environmental screening limits (ESLs) for shallow soil on commercial land use sites where groundwater is not a current or potential source of drinking water (Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table B; California Regional Water Quality Control Board San Francisco Region, May 2008). Constituent concentrations were observed to be the highest in the vicinity of UST#1 and UST#2, with lower concentrations in the vicinity of UST#3 and UST#4. A summary of analytical results follows:

- TPHg was detected in 13 of 18 soil samples. Four detections were greater than the ESL of 180 mg/kg, with a maximum detected concentration of 1,990 milligrams per kilogram (mg/kg) in sample 1A.
- Benzene was detected in one of 18 soil samples at a concentration less than the ESL.
- Toluene was detected in three of 18 soil samples at concentrations less than the ESL.



- Ethylbenzene was detected in 10 of 18 soil samples. Two detections were greater than the ESL of 4.7 mg/kg, with a maximum detected concentration of 46.2 mg/kg in sample 1A.
- Total xylenes were detected in nine of 18 soil samples. Two detections were greater than the ESL of 11 mg/kg, with a maximum detected concentration of 159 mg/kg in sample 1A.
- MTBE was detected in two of 18 soil samples at concentrations less than the ESL.
- Total lead was detected in 18 of 18 soil samples at concentrations less than the ESL of 750 mg/kg. The maximum detected concentration was 71.2 mg/kg in sample 1A.

Soil analytical results are presented in Table 1, and are shown on Figure 4. A copy of the laboratory analytical report is included as Attachment F.

EXCAVATION BACKFILL

The excavations were backfilled and compacted using approximately 140 yd³ of clean imported soil. The imported soil was a loamy sand material, consisting of approximately 85% fine to medium grained sand, and 15% silt and clay. Imported material was used to backfill the excavation of UST#1 and UST#2, and clean overburden was combined with imported material to backfill the excavations of UST#3 and UST#4. Backfilling was performed by placing 12 to 18 inches of material into the excavations, and then compacting the material using a backhoe with a wheel compactor attachment. Excavations were backfilled to match the existing grade. The property was left vacant for future redevelopment.

WASTE CHARACTERIZATION AND DISPOSAL

A concrete chip sample was collected from an area of stained concrete in the former auto service garage, and was analyzed for TPHg and BTEX by EPA Method 8260, CAM 17 metals by EPA Method 6010B, and PCBs by EPA Method 8082. Additionally, toxicity characteristic leaching procedure (TCLP) and STLC analyses were performed due to elevated concentrations of lead. A copy of the laboratory analytical report for characterization of stained concrete is included in **Attachment E**. Approximately 8.5 tons (6 yd³) of stained concrete were transported for disposal at Clean Harbors Buttonwillow, a Class I landfill located near Buttonwillow, California. A copy of the waste disposal manifest for stained concrete is included in **Attachment A**.

Fluids found in the USTs prior to removal, and rinsate water that was generated during triple-rinsing, were removed from the site and disposed of as hazardous waste. Approximately 625 gallons of fluids were transported to US Ecology Nevada, a landfill located near Beatty, Nevada, for disposal. To coordinate with other trucking activities, approximately 780 gallons of fluids were transported to Safety Kleen Systems, a disposal facility located in Denton, Texas, for disposal. Copies of the waste disposal manifests for fluids are included in **Attachment A**.

USTs were all rendered non-reusable prior to their disposal. The four USTs and associated product piping were taken to Ecology Control Industries, a landfill located in Richmond, California, and disposed of as hazardous waste. Copies of UST destruction and disposal documentation are included in **Attachment C**.



SUMMARY

Sierra West conducted building demolition and removal of the USTs pursuant to the Oakland Fire Department's Notice to Comply dated May 19, 2010 for Permit Number 20-2178. During excavation, contaminated soils were encountered and removed. The excavations remained dry throughout the project. Residual constituent concentrations in soil were relatively low as ESLs were exceeded in only 4 of 18 soil samples tested.

Sierra West appreciates this opportunity to work with the Oakland Fire Department. If you have any questions, please contact Jeff Bensch at 916-863-3220.

Sincerely.

Sierra West Consultants, Inc.

Jeffrey C. Bensch, P.E.

Principal Engineer

Brian Whalen Project Geologist

Cc: Mary Wright

James Balsley

Tivonna Stern, City of Oakland

Marisa Rodarte, OSCF

Figures:

Figure 1 – Site Location Map

Figure 2 – Site Plan

Figure 3 – Excavation and Sample Locations

Figure 4 – Soil Contaminant Concentrations

Tables:

Table 1 – Summary of Soil Analytical Results

Attachments:

Attachment A – Waste Disposal Manifests

Attachment B – Photographs

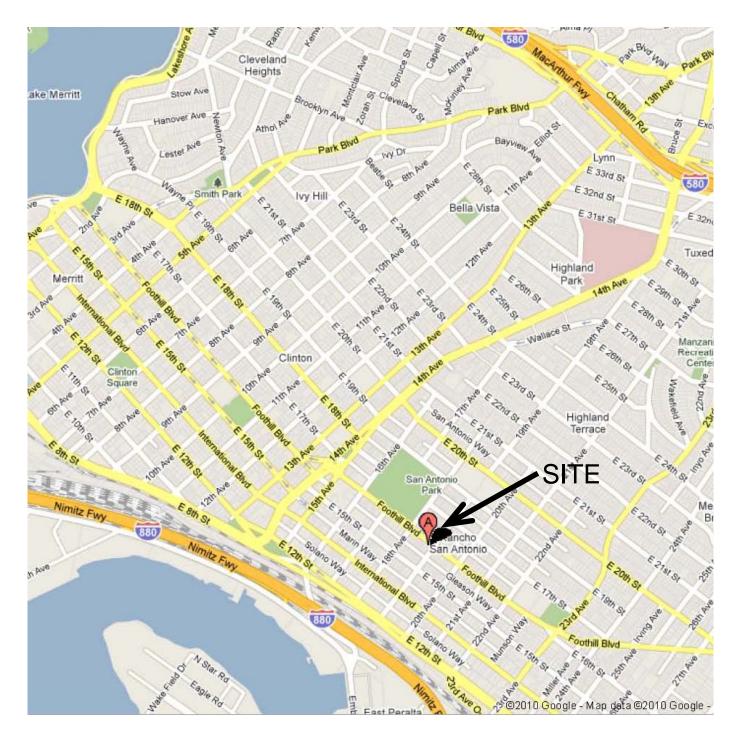
Attachment C – Recycling and Disposal Documentation

Attachment D – UST Destruction and Disposal Documentation

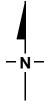
Attachment E – Laboratory Analytical Reports – Waste Characterization Samples

Attachment F - Certified Laboratory Analytical Report - Soil Samples





REFERENCE: GOOGLE MAPS



SITE LOCATION MAP

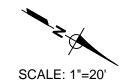
LOCATION:

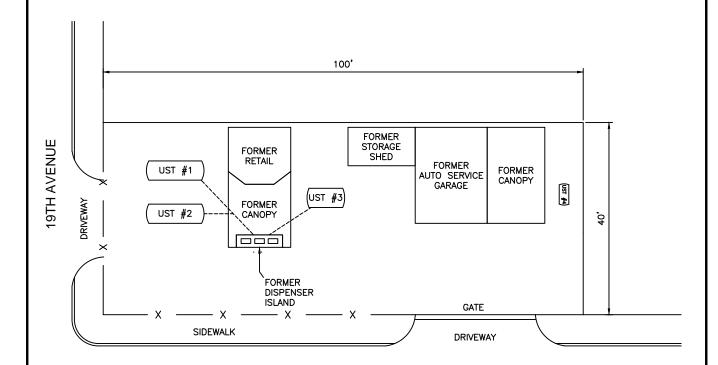
1839 Foothill Blvd., Oakland, CA 94606



FIGURE:

1





FOOTHILL BOULEVARD

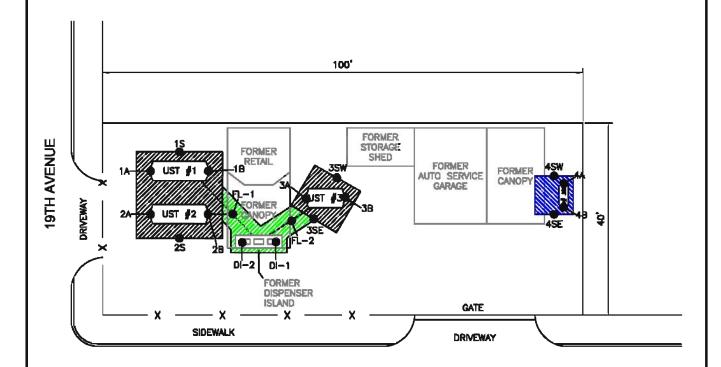
SITE PLAN

LOCATION:
1839 Foothill Blvd., Oakland, CA 94606

SIERRA WEST
CONSULTANTS, INC.

FIGURE:
2





FOOTHILL BOULEVARD

LEGEND:

SOIL SAMPLE

EXCAVATION TO 13' BGS

EXCAVATION TO 5' BGS



EXCAVATION TO 6.5' BGS

TITLE:

Excavation and Sample Locations

LOCATION:

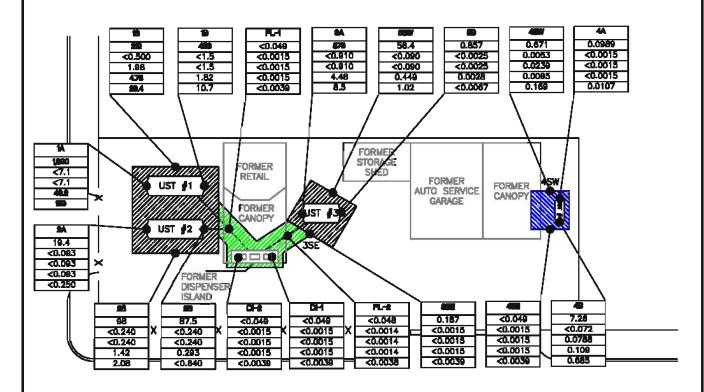
1839 Foothill Boulevard, Oakland, CA



FIGURE:

3





FOOTHILL BOULEVARD

LEGEND:

SOIL SAMPLE



EXCAVATION TO 13' BGS



EXCAVATION TO 5' BGS



EXCAVATION TO 6.5' BGS



Notes:

-Concentrations in milligrams per kilogram -Concentrations exceeding Environmental screening Limits presented in bold

TITLE:

Soil Sample Concentration Map

LOCATION:

1839 Foothill Boulevard, Oakland, CA



FIGURE:

4

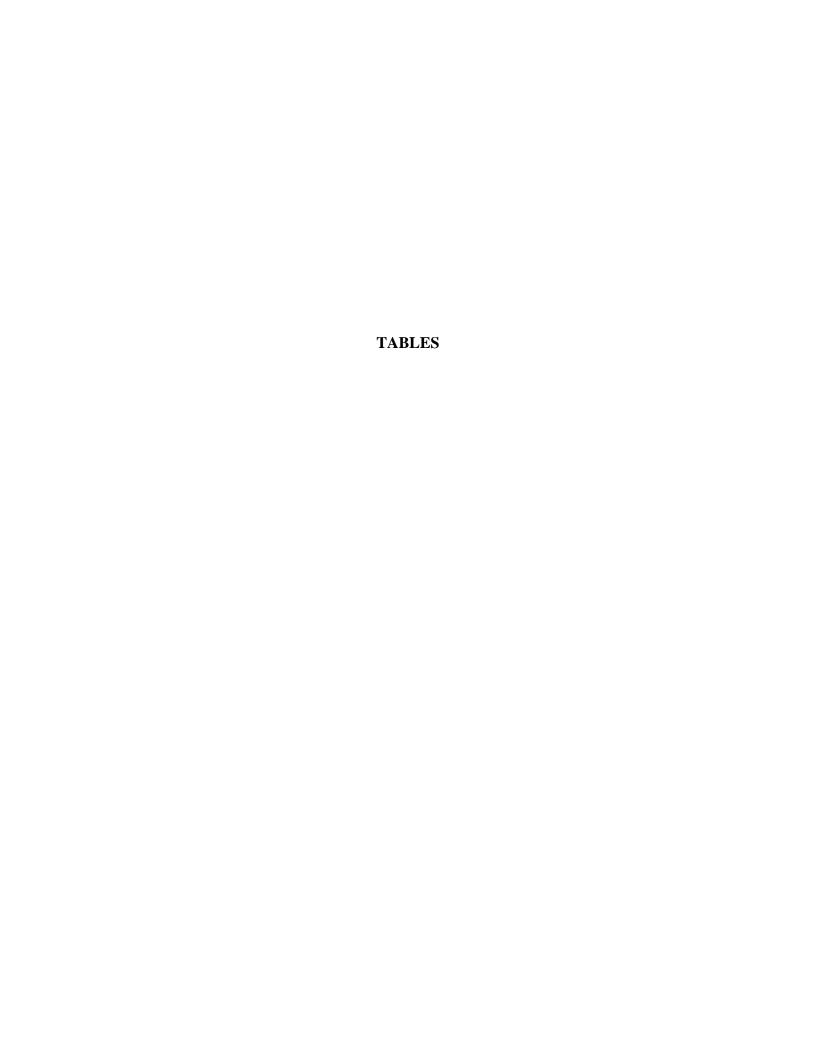


Table 1 Summary of Soil Analytical Results

Former F&M Auto Service Station 1839 Foothill Boulevard Oakland, California

Sample ID	Date Collected	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Total Lead (mg/kg)
Samples from U	ST#1 and UST#2 exca	avation						
1A	4/6/2011	1,990	<7.1	<7.1	46.2	159	<4.8	71.2
1B	4/6/2011	456	<1.5	<1.5	1.82 ⁽¹⁾	10.7	< 0.970	28.8
1S	4/7/2011	212	<0.500	1.98	4.78	23.4	< 0.330	7.1
2A	4/6/2011	19.4	< 0.093	< 0.093	< 0.093	<0.250	< 0.062	4.5
2B	4/6/2011	87.5	<0.240	< 0.240	0.293 ⁽¹⁾	< 0.640	< 0.160	12.0
2\$	4/7/2011	98	<0.240	<0.240	1.42	2.08	<0.160	6.9
Samples from U	ST#3 excavation							
3A	4/7/2011	378	< 0.910	< 0.910	4.48	8.5	< 0.610	9.3
3B	4/7/2011	0.857	< 0.0025	< 0.0025	0.0028 (1)	< 0.0067	0.0154	6.3
3SE	4/7/2011	0.187	< 0.0015	< 0.0015	< 0.0015	< 0.0039	0.0156	3.7
3SW	4/7/2011	56.4	<0.090	<0.090	0.449	1.02	<0.060	6.4
Samples from U	ST#4 excavation							
4A	4/6/2011	0.0989 ⁽¹⁾	< 0.0015	< 0.0015	< 0.0015	0.0107	< 0.00099	8.2
4B	4/6/2011	7.26	< 0.072	0.0788 ⁽¹⁾	0.109 ⁽¹⁾	0.685	<0.048	37.5
4SE	4/6/2011	< 0.049	<0.0015	< 0.0015	< 0.0015	< 0.0039	< 0.00097	13.7
4SW	4/6/2011	0.671	0.0053	0.0239	0.0095	0.169	<0.00097	40.1
Samples from bo	ottom of fuel line exc	avation						
FL-1	4/7/2011	< 0.049	< 0.0015	< 0.0015	< 0.0015	< 0.0039	<0.00098	17.0
FL-2	4/7/2011	<0.048	<0.0014	<0.0014	<0.0014	<0.0038	<0.00096	5.0
Soil samples fro	m bottom of dispense	er island excavat	ion					
DI-1	4/7/2011	< 0.049	<0.0015	< 0.0015	< 0.0015	< 0.0039	<0.00098	18.1
DI-2	4/7/2011	< 0.049	< 0.0015	< 0.0015	<0.0015	< 0.0039	< 0.00099	7.6
Environmental Sc	reening Limits (2)	180	0.27	9.3	4.7	11	8.4	750

Notes and Definitions:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

(mg/kg) = milligrams per kilogram

^{(1) =} Laboratory J-Flag below reporting limit/Estimated Value

^{(2) =} Environmental Screening Limits referenced from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table B* (California Regional Water Quality Control Board San Francisco Bay Region, May 2008), for shallow soils on commercial land use sites where groundwater is not a current or potential source of drinking water

^{*}Values Presented in bold letters are above pertinent Environmental Screening Limits

ATTACHMENT A WASTE DISPOSAL MANIFESTS

	BILL OF LADING/MANIFEST	1. Shipper's US EPA ID No. (If Applicable)	Document No.	2. Page 1 of		THE R	-211				
A	3. Shipper's Name and Mailing Address	CAL000361631		1		3.00					
Ш	ELEMEN 1839 F	FOOTHILL BLVD									
	4. Shipper's Phone ()	ND .	CA 9460	6-A637							
	5. Transporter 1 Company Name	6. US EPA ID	Number	A. Transporter's F	hone						
	7. Transporter 2 Company Name	8. X RO US EPA ID	Number	B. Transporter's F	ransporter's Phone						
П	Designated Facility Name and Site Address	10. US EPA ID	Number	C. Facility's Phone	9						
	SAFETY-KLEEN BYSTEMS. 1722 COOPER CREEK ROAD	7481 INC.		940	482	-5900		Secure and			
П	11. Shipping Name and Description			12. Con	tainers	13. Total	14. Uni				
	HM a.			No.	Туре	Quantity					
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s	b.										
H	C.										
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R	d.				-			-1			
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	15. Special Handling Instruction and Additional Inform	nallan				100					
	DOT/PRFL A. 1617/150 A) OUTS3081 B) C)	800-468-1760 (SAFET) BSEQUENT CARRIERS:4) 8169 B. C. D.	/-KLEEN 078,4147	- CBNTR	ACT 3273	#94138 9,8539	9				
	16a. US DOT HAZARDOUS MATERIALS SHIPPER	condition for transportation accord	ing to the applicable regulat	classified, described, pack ions of the Department of 1	eged, marke ransportation	d and labeled and ar n.	e in proper				
	Printed/Typed Name	Signature require here if US DOT regulate				Month	Day Yea				
	16b. NON-REGULATED SHIPPER'S CERTIFICATION			eral regulations for Tra	nsportation	n or Disposal.		ar			
V	Printed/Typed Name	Sign here if material is not DOT regulated		1							
-	1 6400 6186	DOT Tegulated		1		Month .	Day Yea	ar 1 ar			
TRA	17. Transporter 1 Acknowledgement of Receipt of Ma	aterials				04 0)71	1 ar			
RANS	17. Transporter 1 Acknowledgement of Receipt of Ma Printed/Typed Name		9	22		04 0	Day Yea	1 ar			
RANSPO	Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Ma	Signature Signature	3	32		Month .	Day Yea	ar 1 ar			
RANSPORTE	Printed/Typed Name	signature Signature	8	32		Month .)71	ar 1			
RANSPORT	Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Ma	Signature Signature	2	22		Month .	Day Yea	ar ar 1			
RANSPORTER FA	Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Ma Printed/Typed Name	Signature aterials Signature	ated in Item 19.			Month .	Day Yea	ar 11			

7140 Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator ID Number 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone WASTE MANIFEST 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) 1839 FOOTHILL BLVD DAKLAND CA 94606-4637 916-496-1859 Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number

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	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	81198	10. Contain	ners Type	11. Total Quantity	12. Unit	13.	Waste Code	es .
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	n	exherence soft percent of this consignment conform to the terms of this consign to a arked and labeled/placarded, and are in all respects in proper condition for transport according to a exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAci	applicable inte	rnational and national						
	1	certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity	generator) or		Il quantity ger	erator) is true.	Service of	Ter. II 1989	of calacty	at The
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NON-HAZARDOUS WASTE DATA FORM

L and D Landfill Limited Partnership 8635 Fruitridge Road Sacramento, California 95826

	Generator's Name WRIGHT MARY L HEIRS OF ESTATE Manifest Document Number N2 5718									
	Mailing Address 1829 9TH AVE									
	City, State, Zip 04 KLANO, CA 94605 Phone No. (510) 891-1295									
GENERATOR	Waste Delivered In: Tank Dump Roll Off Barrels/ Cartons Other P/O Other									
ER/	Containers: No Volume (cy) and/or Weight (tons)									
SEN	Waste Description:									
ВУ	1. NF ASB ROOF MASTIC 2.									
	3 4									
E	Properties: pH Solid Liquid Sludge Slurry Other									
COMPLETED	Waste Site Location Including Address: 1839 Foothur Brvo									
	DAKLAND, CA 94606									
BE	Contractor's Name and Address (If Different than Generator) ELEMENT 26 CONTRACTING 2450 SUBJECT BLVD STE 259 RANGED CARROLLA CA 95742									
5	3480 SUNRISE BLVD, STE 250, RANCHO CORDOVA, CA 95742									
	Special Handling Instructions WEAR Inopen PPE									
	Generator Certification: I certify the materials described above on this manifest are not subject to federal, state or local regulations for reporting proper disposal of Hazardous Waste.									
	Generator Printed Full Name Signature Date									
_	Transporter's Acknowledgement of Receipt of Waste									
NO	Company Name FLEMENT 26 CONTRACTING Service Order No.									
FATI	Address 3480 SWIPISE BLVD, STE 250 Pick Up Date 6 APR									
TRANSPORTATIO	City, State, Zip RANCHO CORDOVA, CA 95742 Phone No. 916. 295.1130									
NSP	STEVE MEGUIRE 12 APR									
TRA	Driver Printed Full Name Signature Date									
	Truck, Unit, ID No									
}	L and D Landfill Limited Partnership L and D Ticket No. 637734									
	8635 Fruitridge Road Sacramento, California 95826 Weight (tons)									
FA	(916) 383-9420 Gicardo Simenez 4/12/11									
TSD FACILITY	Weighmaster Signature Date									
	L and D Landfill Certification: L and D Landfill Limited Partnership certifies the above described load, the weight of which is noted, was received and disposed on the date indicated, but makes no certification as to the specific properties of the waste delivered.									

		+67	UPI	409	/					
1	NON-HAZARDOUS 1. WASTE MANIFEST	Generator ID Number	2. Pag		548-5859		Bi	racking Number		
	5. Generator's Name and Mailing A	ddress				ess (if different th				
	Generator's Phone:									
	6. Transporter 1 Company Name	1 - 6	1 0				U.S. EPA ID	Number	(-1117)	
	7. Transporter 2 Company Name	10-1 1/4C/A	ing in		-		U.S. EPA ID	Number	57976	_
	7. Hansporter 2 Company Name		0				U.S. EFA 10	Mariber		
	Designated Facility Name and S	site Address	ıd				U.S. EPA ID	Number Number		-
			87 (707) 678-4718				Ē	N/A		
	Facility's Phone:				10.0-					
	9. Waste Shipping Name ar	nd Description			10. Co	ntainers Type	11. Total Quantity	12. Unit Wt./Vol.		
	1.				NO.	Турс	dountry	77.07.00		
GENERATOR	Class II Non-H	azardous Soil			0 1	D T	18	4		
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П				- W. T. C		-				_
	3.									
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Ш	13. Special Handling Instructions									
		CERTIFICATION: I hereby declare that do are in all respects in proper condition			and accurately	described above	by the proper s		nd are classified, packaged,	
Ш	Generator's/Offeror's Printed/Type	d Name	-	Signature		-			Month Day Yea	er
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INT.L	15. International Shipments	Import to U.S.	Expo	rt from U.S.	Port of	f entry/exit:				
-					Date le	eaving U.S.:				_
TRANSPORTER	16. Transporter Acknowledgment of Transporter 1 Printed/Typed Name			Signature	1	A	-/	7	Month Day Yea	ar
OR	Transporter 1 Printed Typed Name	Tose Peraz		Signature	Lu	A.	K	-	S -9 / /	AI .
NSF	Transporter 2 Printed/Typed Name	The state of the s		Signature			1		Month Day Yea	ir
TRA				10		1				
Ā	17. Discrepancy									
	17a. Discrepancy Indication Space	Quantity	Туре		Residue	Nl	Partial R	ejection	Full Rejection	
7	17b. Alternate Facility (or Generate	or)	_	IVI	inifest Reference	ce Number:	U.S. EPA II) Number		-
FACILITY	Facility's Phone:									
E	17c. Signature of Alternate Facility	(or Generator)							Month Day Yea	ar
DESIGNATED							1			
G		Operator: Certification of receipt of mat	prials covered by the market	et eyeant as no	ed in Item 17a					
	Printed/Typed Name	perator. Certification of receipt of mat	onals covered by the manifes	Signature	ed iii ilelii 17a				Month Day Yea	ar
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I	NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of 3. Em	ergency Respons	se Phone	4. Waste T	racking Numb	er		
1	WASTE MANIFEST	N/A		707	-548-5859		F	KIZ			
1	5. Generator's Name and Mailing				ator's Site Addres			ess)			
	F&M Auto Se	rvice UST Site			Auto Servi				1		
				18391	Poothills Bl	vd., Oakl	and CA 94	5			
	Generator's Phone:										
	Transporter 1 Company Name		Truch			,	U.S. EPA ID	Number	211		
	7. Transporter 2 Company Name	+m drade	ITUCHI	NJ		- 4	14K000/63261				
	F. Hansporter 2 Company Name						U.S. EPA ID Number				
	8. Designated Facility Name and	Site Address			-		U.S. EPA ID	Number			
		Recology Ha	y Road				J.S. El Alb Ramos				
		6426 Hay Ro							- Pel 1113		
	Facility's Phone:	Vacaville, C.	A 93687 (707) 678-47	18				N/A			
	9. Waste Shipping Name	and Description			10. Cor	ntainers	11. Total	12. Unit			
		and Description			No.	Туре	Quantity	Wt./Vol.			
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GENERATOR	Class II Non-I	Jazardous Soil			001	DI	18	X.			
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	Approval Nun	nber: 498			Wea	r Approp	rate PPE w	hen hand	lling material.		
			9051	9389							
		S CERTIFICATION: I hereby dec						hipping name,	and are classified, packaged,		
	Generator's/Offeror's Printed/Typ	and are in all respects in proper c	condition for transport accordi	ng to applicable inter		nai governme	ntal regulations.		Month Day Year		
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7	15. International Shipments		1, 2000		-				10 12111		
INT'L	Transporter Signature (for export	Import to U.S.	_	Export from U.S.		entry/exit: aving U.S.:					
	16. Transporter Acknowledgmen				Date ic	aving 0.5					
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PO	nose 1	In dra de		0	4				5 2711		
ANS	Transporter 2 Printed/Typed Nar	me	N	Signature					Month Day Year		
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A	17. Discrepancy										
	17a. Discrepancy Indication Spa	Quantity	Туре		Residue		Partial R	ejection	Full Rejection		
		The same of the sa	,								
1		2.3		N	Manifest Reference	e Number:	II.O CDA II	N. N			
E	17b. Alternate Facility (or General	ator)					U.S. EPA II	Number			
ACIL							ï				
DE	Facility's Phone: 17c. Signature of Alternate Facil	ity (or Generator)							Worth Day Year		
ATE	176. Signature of Alternate Facili	ity (or denotator)		1							
DESIGNATED FACILITY											
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	18. Designated Facility Owner of	r Operator: Certification of receipt	t of materials covered by the	manifest except as no	oted in Item 17a			2211	10/2		
	Printed/Typed Name		, 119	Signature					Month Day Year		
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A	MOM-UMTWUDOO2	enerator ID Number	2. Page 1 c	of 3. Emergence		e Phone	4. Waste Tracking Number				
1	5. Generator's Name and Mailing Add	Iress		Generator's	Site Addres	ss (if different	than mailing addr	ress)			
	POLINI PARO SELVA	DE COST SIDE					and CA 94	S			
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	Generator's Phone: 6. Transporter 1 Company Name						U.S. EPA ID	Number			
		It PET T	Tan .								
	7. Transporter 2 Company Name	1				Number					
	8. Designated Facility Name and Site	Address					U.S. EPA ID	Number			
		Recology Hay R 6426 Hay Road	oad.								
			5687 (707) 678-4718					N/A			
	Facility's Phone:				10. Cor	tainers	11, Total	12, Unit			
	9. Waste Shipping Name and	Description			No.	Туре	Quantity	Wt./Vol.			
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	Approval Number	er: 4983			Wea	F Appro	plate PPE w	hen han	dling mate	nal.	
	14. GENERATOR'S/OFFEROR'S CE	ERTIFICATION: I hereby declare	that the contents of this consignmen	nt are fully and a	courately d	escribed abo	ve by the proper s	hipping name	, and are classifie	ed, packaged,	
	marked and labeled/placarded, and a Generator's/Offeror's Printed/Typed I			Signature	and nauc	nai governin	ental regulations.		seionth	Day Year	
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1	15. International Shipments	Import to U.S.	Export fro	m U.S.	Port of	entry/exit:	0				
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A	17. Discrepancy								-		
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-	17b. Alternate Facility (or Generator)			Manifes	Reference	e Number:	U.S. EPA ID	Number			
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FAC	Facility's Phone:										
TED	17c. Signature of Alternate Facility (c	or Generator)				2-4			Month	Day Year	
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DESIGNATED FACILITY											
1											
	18. Designated Facility Owner or Op	erator: Certification of receipt of n	naterials covered by the manifest ex	cept as noted in	Item 17a		17	00			
	Printeo/Typed Name			Signature					Month	Day Year	
Y											

NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of	3. Emergency Respons	se Phone	4. Waste T	racking Number	7		
5. Generator's Name and Mai	iling Address		Generator's Site Addre	as (if different t	hon mailing adds	anal.			
	Service UST Site	F	deletators one Addre	ce UST S	ite				
6. Transporter 1 Company Na	Andrusk 1	Trucking		4	U.S. EPA ID	Number	326	(
7. Transporter 2 Company Na	ame	1-21-3			U.S. EPA ID				
8. Designated Facility Name	Recology Hay Road 6426 Hay Road				U.S. EPA ID	Number			
Facility's Phone:	Vacaville, CA 9568	7_(707)678-4718				N/A			
9. Waste Shipping Na	me and Description		10. Cor	ntainers Type	11. Total Quantity	12. Unit Wt./Vol.			
Class II Nor	n-Hazardous Soil		0 0 1	D T	18	Y			
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marked and labeled/placarde	OR'S CERTIFICATION: I hereby declare that to d, and are in all respects in proper condition for	ne contents of this consignment ar	re fully and accurately d	escribed above	by the proper s	nipping name, an		ed, packag	jed,
Generator's/Offeror's Printed	/Typed Name		nature	-			Month	Day	Year
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			//						
16. Transporter Acknowledgr Transporter 1 Printed/Typed Transporter 2 Printed/Typed	Name Anda	Sig	nature	7			Month	Day	Year
Transporter 2 Printed/Typed	Name		nature				Month	Day	Year
17. Discrepancy									
17a. Discrepancy Indication S	Space Quantity	Туре	Residue Manifest Reference	a Number	Partial R	ejection		Full Reject	tion
17b. Alternate Facility (or Ge	nerator)		Walliest Neletend	e Number.	U.S. EPA IE	Number			
Facility's Phone:									
	acility (or Generator)						Month	Day	Year
17c. Signature of Alternate F									
18. Designated Facility Owner	er or Operator: Certification of receipt of materia	als covered by the manifest excep	t as noted in Item 17a			3 17 7 7			-
Printed/Typed Name		Sig	nature				Month	Day	Year
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		#6	7	(IPI	12	91						
A	NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergency		Phone	4. Waste T	racking Number	F			
T	WASTE MANIFEST							18605					
	5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)												
	1839 Foothills Blvd., Oakland CA 946												
	Generator's Phone: 6. Transporter 1 Company Name								U.S. EPA ID Number				
	The Hard free from the							J. J. D. J. J. T. J.					
	7. Transporter 2 Company Name							U.S. EPA ID	Number	13/1/	-0		
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	8. Designated Facility Name an	d Site Address						U.S. EPA ID	Number		-		
		Recology Hay Ro	ad										
		6426 Hay Road	50° 20° 50° 60°	***					3175				
	Facility's Phone:	Vacaville, GA 95	087 (787) 078-4	118					N/A				
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П	marked and labeled/placarded,	, and are in all respects in proper condition	on for transport accord	ding to applica	ble international a	nd nation	al governmen	tal regulations.					
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	18. Designated Facility Owner	or Operator: Certification of receipt of ma	iterials covered by the	e manifest exc	ept as noted in Ite	m 17a		1	137	-	-		
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_		ed for use on elite (12-pitch) to	Z. C. Carriero C. C. Carriero C. C. Carriero C. Carrie				Tree or		Approved.	OMB No.	2050-0039	
V	ASTE MANIFEST	. Generator ID Number	2. Pag	707-	gency Response	tent of h	00	Tracking Nu	650	5 J	JK	
5. G	enerator's Name and Mailing	Address	vetro, miso amino = Alt	Generato	or's Site Address	(if different that	an mailing addre	ss)	THE SECTION	anough	r Wasse	
210	F&M Auto Ser	wice UST Site		Service UST Site ills Blvd., Oakland CA 94606								
	Generator's Phone: 6. Transporter 1 Company Name U.S. EPA ID Number											
6. Transporter 1 Company Name U.S. EPA ID Number										A renstr		
7.7		200 13	PEKIN	- 1	U get grate 15	-12.87	CAK	0001	16.1	3.5	4/4 july	
7. 1	ansporter 2 Company Name		3				U.S. EPA ID	Number				
_						-					A.1 16, -21	
8. D	esignated Facility Name and						U.S. EPA ID	Number				
EQH.			rs Buttonwillow									
15			okem Read				menne of an					
Faci	lity's Phone:	-6200 Buttonwillo	w, CA 93206		Annual Control of the		CAI	980	6 7 3	276		
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HM	and Packing Group (if an	y))	A STATE OF THE PARTY OF THE PAR		No.	Туре	Quantity	Wt./Vol.	13.	Waste Code	S	
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15.	GENERATOR'S/OFFEROR marked and labeled/placard	led, and are in all respects in prop	clare that the contents of this consig er condition for transport according t m to the terms of the attached EPA	to applicable inte	and accurately de	scribed above	by the proper si ental regulations	hipping name	e, and are cla	ssified, pack	aged,	
1			CFR 262.27(a) (if I am a large quan			all quantity ger	nerator) is true.					
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18a.	Discrepancy Indication Space	Quantity	Туре		Residue		Partial Re	jection		Full Rej	ection	
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185.	Alternate Facility (or General	tor)					U.S. EPA ID	Number				
18b.							and the state of					
	lity's Phorie:	the set consisted continues in	(I=1) 4/96 //III 1 1 1 1 1 1 1					9 (1		100		
19.1	Signature of Alternate Facility	y (or Generator)							Mc	onth Day	y Year	
									ALL THE A	Den dege	of Minney	
19.1	Hazardous Waste Report Mar	nagement Method Codes (i.e., con	des for hazardous waste treatment, o	disposal, and rec	cycling systems)	V	200		- Del A			
1.		2.	ndicting Series are in	3.	a latin	-	4.	Res HOT Light Li	THE STATE OF	THE LANSING	I me Seri	
ern		recombined entitlement name					not believe					
20.1	Designated Facility Owner or	Operator: Certification of receipt of	of hazardous materials covered by the	ne manifest exce	pt as noted in Ite	n 18a	mail of the last of	SERVICE SES	HURE IF	e langular	(T) (d)	
	led/Typed Name			Signature		THE P	AND DESIGNATION	21 11 31 74 (01)	Mo	nth Day	Year	
	7			MR Mass =					1	1	Septem in	

Posted Weight Tags by Job Number

Date Range

2011/05/24,2011/05/29

DATE	ACCT#	ACCOUNT NAME	COL	<u>MM</u>	JOB#	Tons	WT#	TRUCK#	CITY OF ORIGIN
20110527	58545	BTI ENVIRONMENTAL	SO	LV	4983	26.58	1005844	3484	OAKLAND
20110527			SO	LV		25.97	1005855	5029	OAKLAND
20110527			SOI	LV		26.55	1006003	2484	OAKLAND
20110527			SOI	LV		24.96	1006032	5029	OAKLAND
20110527			SO	LV		25.27	1006033	3869	OAKLAND
				Total To	ons	129.33			

Grand Total Tons 129.33

1

to Buttonullow
Loo ORUZCO

A Plea	UNIFORM HAZARDOUS WASTE MANIFEST UNIFORM HAZARDOUS 1. Generator ID Number		3. Emergency Respons		0.0	t Tracking Nun		<u>JJK</u>				
	5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)											
	Generator's Phone:											
	6. Transporter 1 Company Name U.S. EPA ID Number											
	7. Transporter 2 Company Name	U.S. EPA ID Number										
		to-										
	8. Designated Facility Name and Site Address Clean Harrors Suppose Su				U.S. EPA ID	Number						
	Facility's Phone: 661 762-6200 Facility's Phone:				CA	980	675276					
Ш	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Num and Packing Group (if any))	nber,	10. Conta	iners Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste C	odes				
П	1. \$4555WC = L = 3 05460 F541		TVLW BIT S	Туре	acomity)		611					
GENERATOR	None, Non-RCRA Hazrdous Waste Solids (Lead) N/A		0 0 1	b r	18	Y	011					
- GENE	2. Commence and a commence of the commence of		annice: «	60								
	3.											
	4.											
2 2	14. Special Handling Instructions and Additional Information	ST-127-02	Auto-	10000	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	K.EL D		and original states				
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary											
	Exporter, I certify that the contents of this consignment conform to the terms of the att I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a	tached EPA Acknowl a large quantity gene	ledgment of Consent. erator) or (b) till am a sm	•	_							
$\ $	Generator's/Offeror's Printed/Typed Name	Sign	nature	_	1			Day Year				
<u></u>	16 International Shipments		0111	-1-1-1		_	and a	face (
INT	Import to U.S. Transporter signature (for exports only):	Export from U		ntry/exit: ving U.S.:								
ER	17. Transporter Acknowledgment of Receipt of Materials											
8	Transporter 1 Printed Typed Name	Sigr I	despoldo	Own	r. free		Month [Day Year				
TRANSPORTER	Transporter 2 Printed/Typed Name	Sigo	nature	C. PV	w.		Month I	Day Year				
튼	18. Discrepancy											
	18a. Discrepancy Indication Space Quantity Type	3	Residue		Partial R	ejection	Full	Rejection				
_	18b. Alternate Facility (or Generator)		Manifest Reference	ce Number:	U.S. EPA ID	Number						
FACILITY					1	, rumos						
DESIGNATED F	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)	place.	_				Month	Day Year				
GN	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste	e treatment, disposal	I, and recycling systems)	_								
- DES	1. 2.	3.	, = >= -= /= (3 = / = (10)		4.							
	20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials of	covered by the manif	lest except as nated in lite	em 18a								
	IPrinted/Typed Name	Sign	nature	and the substitute of the			Month	Day Year				

008446505 JJK

II. Instructions for International Shipment Block

Item 16. International Shipments

For export shipments, the primary exporter must check the export box, and enter the point of exit (city and state) from the United States. For import shipments, the importer must check the import box and enter the point of entry (city and state) into the United States. For exports, the transporter must sign and date the manifest to indicate the day the shipment left the United States. Transporters of hazardous waste shipments must deliver a copy of the manifest to the U.S. Customs when exporting the waste across U.S. borders.

III. Instructions for Transporters

Item 17. Transporters' Acknowledgments of Receipt

Enter the name of the person accepting the waste on behalf of the first transporter. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the date of receipt. Only one signature per transportation company is required. Signatures are not required to track the movement of wastes in and out of transfer facilities, unless there is a change of custody between transporters.

If applicable, enter the name of the person accepting the waste on behalf of the second transporter. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the date of receipt.

Note: Transporters carrying imports, who are acting as importers, may have responsibilities to enter information in the International Shipments Block.

Transporters carrying exports may also have responsibilities to enter information in the International Shipments Block. See above instructions for Item 16.

REVISED (3/10)

CLEANHARBORS BUTTONWILLOW, LLC WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed in Chapter 7 (commencing with Section12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agiculture.

WEIGHMASTER CLEANHARBORS BUTTONWILLOW, LLC DATE PROFILE NO. GROSS WT. BY. DEPUTY DATE DISPOSAL LOCATION TARE WT. BY: DEPUTY WEIGHING 2500 W. LOKERN ROAD DRIVER'S NAME BUTTONWILLOW, CA 93206 LOCATION: PRINTED DRIVER'S NAME SIGNATURE TRACTOR NO. TRACTOR LIC. NO. SERVICE ORDER NO. TRAILER LIC. NO. BIN TRACKING **BIN NUMBERS:** DRUM NUMBER: FLASH 20% COMMENTS: BIN DROP FULL: MOVE BY: BIN TO: DATE:

1:28 pm 05/27/11 REG. (60) INBOUND 47160 lb

4:47 Pm 05/27/11

REG. (60) 47160 1b GROSS 30100 1b TARE 17060 1b NET

pH

VIS

☐ END DUMP ☐ TRANSFER ☐ VACUUM ☐ VAN☐ ROLL OFF - ☐ FLAT BED ☐ _____

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CYA

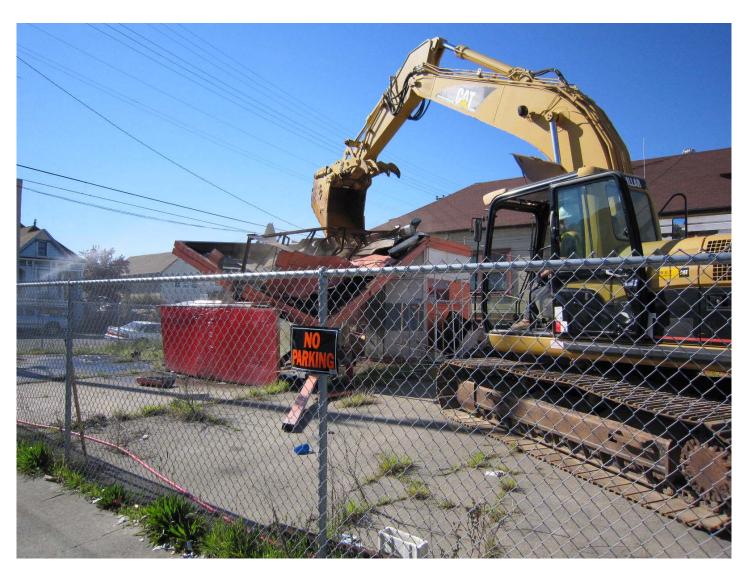
OX

OTHER:											
IC	CR	PR	B.W. W.B.	LAB	SOLID	WORK	LAND	W.T. SCAN	MAN- SCAN	BE- SCAN	
					,						

ATTACHMENT B PHOTOGRAPHS



Abatement of Lead Based Paint Prior to Building Demolition



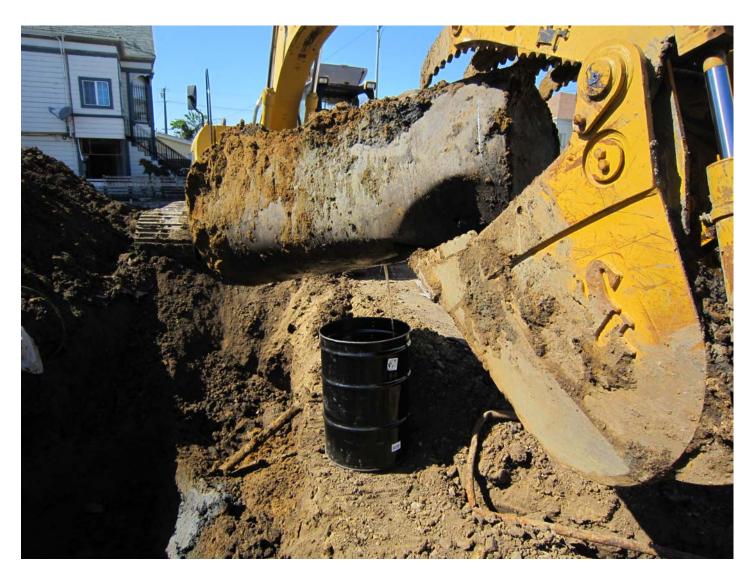
Demolition of Former Retail Building and Canopy



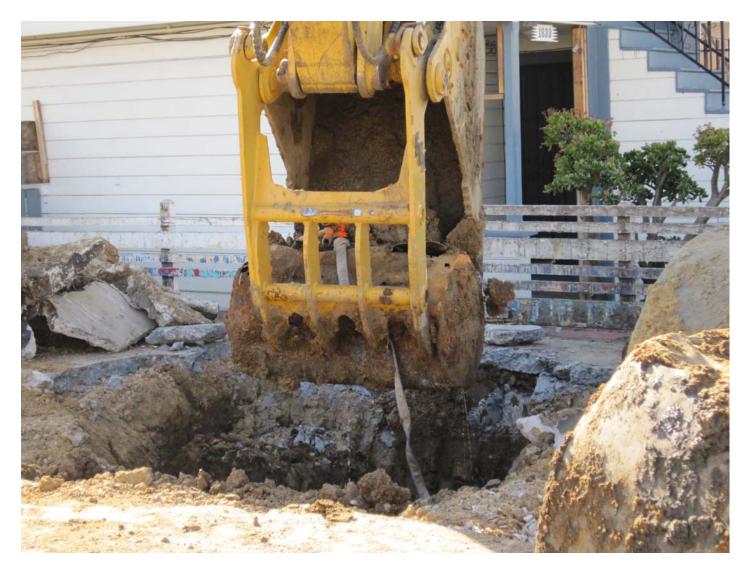
Demolition of Former Auto Service Garage and Canopy



Excavation and Removal of UST#1 and UST#2



Removal of UST#3 and Drainage of Leftover Rinsate Water



Removal of UST#4



Backfill and Compaction of Excavations



Site Surface Following Removal of Soil Stockpiles

ATTACHMENT C RECYCLING AND DISPOSAL DOCUMENTATION

Desris

KIEFER LANDFILL FACILITY

HOURS: MON-FRI 6:30 AM-4:30 PM

SAT-SUN 8:30 AM-4:30 PM

INFORMATION: 916-875-5555

Weighed: Read. Susan (MSA) Deposit: Read. Susan (MSA)

BILL [0: 22580

ELEMENT, 26 CONTRACTING 3480 SUNRISE BLVD STE 250 RANCHO CORDOVA CA 95742

HAULER: CASH CUSTOMER

Vehicle 1D:

Reference: VERGARA Grid: M-1L

Origin: SACRAMENTO, COUNTY OF

DATE IN: 04/01/2011 TIME IN: 07:46:18 DATE OUT: 04/01/2011 TIME OUT: 08:25:54

INBOUND TICKET Number: 02-11020495

SCALE 1 GROSS W). SCALE 2 TARE WT.

38020 LB NET WEIGHT 11960 LB

Qty Description 5.930 Normal Refuse Amount. 179.40

49980 LB

NET CHARGE AMOUNT:

J 179, 40





** TICKET REPRINT on 04/04/11 **

PURCHASE TICKET

Schnitzer Steel - Oakland 1101 Embarcadero West Oakland CA 94607 US 510-444-3919

Control Number - 21: 21 5882

Ticket # TASXIQ /ehicle ID: P

Ship Date: 03/31/11

/ehicle No: TK TASXIQ

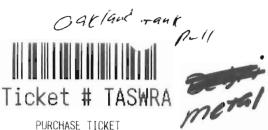
Purchased From: ELEMOO c/o ELEMENT 26 CONTRACTING c/o ELEMENT 26 3480 SUNRISE BLVD #250 RANCHO CORDOVA, CA 95742

License/ID No: N

Order # 8288-01

Carrier: PROSYY - PRO S.E. SERVICES/FR

Ī						Pounds		
itm Shpmn	t Mate	erial		Gross	Tare	Net	Adj	Pd Wt
1. 10858	7 #1 8	42 H M S U	NPREPARE		36660b	10420	0	10420
Totals				- Maria de la compansión de la compansió		10420	0	10420
Gross Tare	₩ght [₩ght [)ate/Time)ate/Time	03/31/11 03/31/11	13:30 13:48			GROSS T	ONS 518
latarial	Cmm	n-	Law 1113					-



Schnitzer Steel - Oakland 1101 Embarcadero West Oakland, CA 94607 US

Control Number - 21: 21 5866 Date: 03/31/11

Ship Date: 03/31/11

Ticket # TASWRA Vehicle ID: 9C34680

Vehicle No: TK TASWRA

Purchaser/Payer if this is untrue.

Purchased From: CP021P ELEMENT 26

License/ID No: N

ltm Shpmort Material	_	Tare		Adj	Pd Wt
1. TASWRA TIN/LIGHT IRON 124-103	46980a	38040b	8940	0	8940
Totals			8940	0	8940
Gross Wght Date/Time 03/31/11 Tare Wght Date/Time 03/31/11 Deputy Signature				GROSS 1	ONS 911
(Hyter Runn	els)				
Customer Signature		4			
(All weights are reported in Poss ("m" Represents a weight that wa (a=Scale 1 b=Scale 2 c=Scale	manuall	y enter	ed)		

DISCLAIMER AND WAIVER OF LIABILITY
Disclaimer and Waiver of Liability for present and future deliverie
For mutual consideration the customer and driver acknowledge and
assume the risk involved in discharging scrap metal in the yard. It
customer and driver release discharge and hold harmless Schnitzer
Steel Industries, its subsidiaries, affiliates, employees and its
insurance carrier from any and all liability for damages both to pe
and property including but not limited to damage to motor vehicles
while driving through the yard or loading or unloading scrap metal
the yard in connection with present and future delivery of scrap,
any and all liability for damages both to person and property any and all liability for damages both to person and property

I affirm under penalty of law that the property I am selling in this transaction is not, to the best of my knowledge, stolen property and am the lawful owner and can convey legal title to Purchaser/Payer. I warrant that this material does not contain any hazardous substant as defined by the federal and/or state law, and I agree to indemnify Purchaser (Payer if this is untrue.

	•		
	-		





DATE	4/1/11		Tick	et No.	- 1	
Customer	Name Element 2	0				
Sold to Ad	dress	Ship to Ac	ldress			
	7 <u> </u>				•	
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Tare Weigh		Truck No.		CK	Truck	ina
Net Weigh		Driver's N	ame (Print)	/(1)	CE	0
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277	Weig	hmaster Certifica	te		aral.	
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Product	\$tandards of the	Unit of Measure	f Agriculture. Depu	uty	Amou	
Product	\$tandards of the	California Department o	f Agriculture. Depu	Unit Price		
Product	Product / Service Description	Unit of Measure	Oppulation Deput	uty	Amou	
Product Code	Product / Service Description Dump Fee	Unit of Measure Load	Oppulation Deput	Unit Price	Amou	nt
Product	Product / Service Description Dump Fee Oversized Fee	Unit of Measure Load Each	Oppulation Deput	Unit Price	Amou	
Product Code	Product / Service Description Dump Fee Oversized Fee Debris Fee	Unit of Measure Load Each Each	Oppulation Deput	Unit Price	Amou	nt
Product Code	Product / Service Description Dump Fee Oversized Fee Debris Fee Steel Fee	Unit of Measure Load Each Each	Oppulation Deput	Unit Price	Amou	nt
Product Code	Product / Service Description Dump Fee Oversized Fee Debris Fee Steel Fee Plant Overtime	Unit of Measure Load Each Each	Oppulation Deput	Unit Price	Amou	nt
Product Code	Product / Service Description Dump Fee Oversized Fee Debris Fee Steel Fee	Unit of Measure Load Each Each AHours	Units	Unit Price	Amou	nt





DATE	4-1-11	A DE DE	Tick	et No.	Ann	1 = 1
Customer	Name Element	26	Comment.	4.0 00		
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Gross We	ight	Vehicle Lic	. No.			A.
Tare Weig	ht	Truck No.	Y SE YELL	ER	71200	cinq
Net Weigh	t	Driver's Na	ame (Print)		ANCE	E 455
THE STATE OF	A STATE OF THE STA	A STATE OF THE STA	STATE COMP	The state of	- 138.14 P	30,000
	- The state of the	master Certificat		41E-	100	i terjir
or accuracy, as	RTIFY that the following described commodity was weighed, measu proscribed by Chapter 7 (Commencing with Section 12700, of Divisit Standards of the C	on 5 of the California Bu alifornia Department of	and the second		red by the Division of	Measurement
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Product Code	Product / Service Description Dump Fee	Unit of Measure	Dери	ny	V Talenta	int
Product Code	Product / Service Description Dump Fee Oversized Fee	Unit of Measure Load Each	Dери	ny	V Talenta	int
Product Code	Product / Service Description Dump Fee Oversized Fee Debris Fee	Unit of Measure Load Each	Dери	ny	V Talenta	int
Product Code	Product / Service Description Dump Fee Oversized Fee Debris Fee Steel Fee	Unit of Measure Load Each Each	Dери	ny	V Talenta	unt
Product Code	Product / Service Description Dump Fee Oversized Fee Debris Fee Steel Fee Plant Overtime	Unit of Measure Load Each Each Hours	Units	ny	V Talenta	int

5 85 425

ATTACHMENT D UST DESTRUCTION AND DISPOSAL DOCUMENTATION



Tuesday April 6th, 2011

To Whom It May Concern:

On April 6th 2011, Safety Kleen performed the following tank cleaning, for Element 26 – 1839 Foothill Blvd, Oakland, CA 94606.

The four underground storage tanks at the above location, had all possible material removed and placed in DOT approved containers. At the completion of the product removal, the tanks were pressure washed to remove all possible contaminates. At the completion of the cleaning, the four tanks were each triple rinsed to insure all possible materials had been removed. It was not possible to enter the tanks, and all rinsing was done from the available access points at the top of the tanks.

Sincerely,

Joseph Baker

EFS Project Manager

E C	ORM HAZARDOUS 1. Generator ID Number CAL D00362183	512-00	gency Response 73-5139-3		00		583	3 J .	JK_
	wright Mary L Hers of Esta 1829 9TH AVE rator's Phone: 54 0 1924 4506 OAKLAND, CA 94606	TE 1	or's Site Address 839 FOOTI	HLL BLVI		ss)			
6. Tran	nsporter 2 Company Name		ANCAND, C	A Squir	U.S. EPA ID I	000	3616	31	1
	ECOLOGY CONTROL INDUSTRI 255 PARR BOULEVARD PICHMOND, CA 94801	ES			U.S. EPA ID I		D009466	3392	
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (fl any))	_	10. Contain	ners Type	11. Total Quantity	12. Unit WL/Vol.	13.	Waste Code	s
	 NON-RCRA HAZARDOUS WASTE SOUD (EMPTY STOR 	(AGE TANKS)	4	TP	3000	P	512		
	2.			ď.	Q		200		
	3.				0	-18	206. 6-6	1800 1800	
	4.				0	80	- 12	1289	.30
		consignment are fully a	iten bac leanatem	ional governm	ental regulations	. If export sh	ipment and I	am the Prim	ary
Senera 3	marked and labeled/placarded, and are in all respects in proper condition for transport acceptorer, I certify that the contents of this consignment conform to the terms of the attached certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a largestor's Office Printed Typed Name	ording to applicable intered EPA Acknowledgment	of Consent.	all quantity as	nerator) is true.	$\overline{}$	Mo	nth Day	
Genera 16. Inte	Exporter, I certify that the contents of this consignment conform to the terms of the attache certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large ator's) Printed Typed Name Import to U.S. Importer signature (for exports only):	ording to applicable intered EPA Acknowledgment be quantity generator) of	of Consent.	J/A	nerator) is true.	<u></u>	Mo	nth Day	Ye
Genera 16. Inte Transp 17. Tra	Exporter, I certify that the contents of this consignment conform to the terms of the attache certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large lator's) Printed Typed Name	ording to applicable intered EPA Acknowledgment the quantity generatory of the state of the stat	of Consent. (b) (if I am a sma	htry/exit/ ing U.S.:	vertator) is true.		Moi Moi	nith Day	
General Genera	Exporter, I certify that the contents of this consignment conform to the terms of the attache certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large ator's) Printed Typed Name Import to U.S.	Export from U.S. Signature Signature	of Consent. (b) (if I am a small	nrylexitying U.S.:	Partial Rej	ection	Moi	nith Day	
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General 16. Inter 16. Inter 17. Transp 17. Transp 18. Dis 18a. Di 18b. Ai Facility 18c. Si	Exporter, I certify that the contents of this consignment conform to the terms of the attache certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large later's Printed Typed Name large later's Import to U.S. porter signature (for exports only): ansporter Acknowledgment of Receipt of Materials porter 1 Printed/Typed Name later's Print	Export from U.S. Signature Signature Signature	of Consent. (b) (if I am a small Port of end Date leavi	nrylexitying U.S.:	Partial Rej	13	Mod	nth Day hth Day	Ye

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801 Phone # 510-235-1393

CUSTOMER: ELEMENT 26 CONTRACTING

JOB NO: 52T4226

GENERATOR: WRIGHT MARY L HEIRS OF ESTATE

1839 FOOTHILL BLVD OAKLAND CA 94606

FOR: ECOLOGY CONTROL INDUSTRIES

TANK NO.: 34194

LOCATION: RICHMOND

DATE: 04/12/2011

LAST PRODUCT: UNLEADED GAS

TEST METHOD: VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE: 1000 GALLONS CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES

HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED

AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED

THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

REPRESENTATIVE

TITLE

INSPECTOR

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801 Phone # 510-235-1393

CUSTOMER: ELEMENT 26 CONTRACTING

JOB NO: 52T4226

GENERATOR: WRIGHT MARY L HEIRS OF ESTATE

1839 FOOTHILL BLVD OAKLAND CA 94606

FOR: ECOLOGY CONTROL INDUSTRIES

TANK NO.: 34195

LOCATION: RICHMOND

DATE: 04/08/2011

LAST PRODUCT: USED OIL

TEST METHOD: VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE: 1000 GALLONS

CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES

HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED

AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED

THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

REPRESENTATIVE

TITLE

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801 Phone # 510-235-1393

CUSTOMER: ELEMENT 26 CONTRACTING JOB NO: 52T4226

GENERATOR: WRIGHT MARY L HEIRS OF ESTATE

1839 FOOTHILL BLVD OAKLAND CA 94606

FOR: ECOLOGY CONTROL INDUSTRIES TANK NO.: 34196

LOCATION: RICHMOND DATE: 04/12/2011

LAST PRODUCT: LEADED GAS TEST METHOD: VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE : _____ 500 GALLONS CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES

HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED

AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED

THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

REPRESENTATIVE

TITLE

INSPECTOR

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard · Richmond, California 94801 Phone # 510-235-1393

CUSTOMER: ELEMENT 26 CONTRACTING

JOB NO: 52T4226

GENERATOR: WRIGHT MARY L HEIRS OF ESTATE

1839 FOOTHILL BLVD OAKLAND CA 94606

FOR: ECOLOGY CONTROL INDUSTRIES

TANK NO.: 34197

LOCATION: RICHMOND

DATE: 04/12/2011

LAST PRODUCT: USED OIL

TEST METHOD: VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE: 100 GALLONS CONDITION: SAFE FOR FIRE REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES

HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN. PROCESSED

AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE PERMITS FOR AND HAS ACCEPTED

THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily nerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued. INSPECTOR

REPRESENTATIVE

TITLE

ATTACHMENT E

LABORATORY ANALYTICAL REPORT WASTE CHARACTERIZATION SAMPLES





Technical Report for

Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Accutest Job Number: C15405

Sampling Date: 04/04/11



Sierra West Consultants, Inc.

jbensch@sierra-west.net bwhalen@sierra-west.net ATTN: Jeff Bensch

Total number of pages in report: 42

nelac !

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Simon Hague 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

 $Test\ results\ relate\ only\ to\ samples\ analyzed.$



Laurie Glantz-Murphy

Laboratory Director



April 28, 2011

Jeff Bensch Sierra West Consultants, Inc. 4227 Sunrise Blvd Suite # 220 Fair Oaks, CA 95628

Re: Accutest Job # C15405 Reissue

Dear Mr. Bensch,

This is a reissued report for Accutest Job # C15405, original report dated 4/12/11.

The volatiles reporting list for sample C15405-5 has been revised as per your request. Revised result pages and associated QC summary pages have been incorporated into this revised report.

We apologize for any inconvenience the above issue may have caused you. Please contact us at 408-588-0200 if we can be of further assistance in this matter, or if you have any questions regarding this data report.

Sincerely,

Accutest Laboratories



Sections:

Table of Contents

-1-

Section 1: Sample Summary	4
Section 2: Sample Results	5
2.1: C15405-5: STOCKPILE(A,B,C,D)COMP	6
2.2: C15405-5W: STOCKPILE(A,B,C,D)COMP	10
Section 3: Misc. Forms	11
3.1: Chain of Custody	12
Section 4: GC/MS Volatiles - QC Data Summaries	14
4.1: Method Blank Summary	15
4.2: Blank Spike Summary	21
4.3: Blank Spike/Blank Spike Duplicate Summary	22
4.4: Matrix Spike/Matrix Spike Duplicate Summary	25
Section 5: Metals Analysis - QC Data Summaries	28
5.1: Prep QC MP3375: Sb,As,Ba,Be,Cd,Cr,Co,Cu,Pb,Mo,Ni,Se,Ag,Tl,V,Zn	29
5.2: Prep QC MP3379: Hg	34
5.3: Prep QC MP3398: Cr	38



C



Sample Summary

Sierra West Consultants, Inc.

Job No: C15405

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
C15405-1	04/04/11	08:15 BW	04/04/11	SO	Soil	STOCKPILE(A)
C15405-2	04/04/11	08:15 BW	04/04/11	SO	Soil	STOCKPILE(B)
C15405-3	04/04/11	08:15 BW	04/04/11	SO	Soil	STOCKPILE(C)
C15405-4	04/04/11	08:15 BW	04/04/11	SO	Soil	STOCKPILE(D)
C15405-5	04/04/11	00:00 BW	04/04/11	SO	Soil	STOCKPILE(A,B,C,D)COMP
C15405-5W	04/04/11	00:00 BW	04/04/11	SO	Soil	STOCKPILE(A,B,C,D)COMP

Soil samples reported on a dry weight basis unless otherwise indicated on result page.





Sample Results		
Report of Analysis		
report of rinarysis		



Page 1 of 3

Client Sample ID: STOCKPILE(A,B,C,D)COMP

 Lab Sample ID:
 C15405-5
 Date Sampled:
 04/04/11

 Matrix:
 SO - Soil
 Date Received:
 04/04/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

 Project:
 F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 b M22653.D 1 04/05/11 XB n/a n/a VM726

Run #2

Initial Weight Final Volume Methanol Aliquot

Run #1 5.00 g 5.0 ml 50.0 ul

Run #2

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	500	150	ug/kg	
108-88-3	Toluene	405	500	150	ug/kg	J
100-41-4	Ethylbenzene	424	500	150	ug/kg	J
1330-20-7	Xylene (total)	6690	1000	400	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	500	100	ug/kg	
67-64-1	Acetone	ND	10000	2000	ug/kg	
108-86-1	Bromobenzene	ND	500	150	ug/kg	
74-97-5	Bromochloromethane	ND	500	150	ug/kg	
75-27-4	Bromodichloromethane	ND	500	100	ug/kg	
75-25-2	Bromoform	ND	500	100	ug/kg	
104-51-8	n-Butylbenzene	1430	500	150	ug/kg	
135-98-8	sec-Butylbenzene	209	500	150	ug/kg	J
98-06-6	tert-Butylbenzene	ND	500	150	ug/kg	
108-90-7	Chlorobenzene	ND	500	150	ug/kg	
75-00-3	Chloroethane	ND	500	150	ug/kg	
67-66-3	Chloroform	ND	500	150	ug/kg	
95-49-8	o-Chlorotoluene	ND	500	150	ug/kg	
106-43-4	p-Chlorotoluene	ND	500	150	ug/kg	
56-23-5	Carbon tetrachloride	ND	500	100	ug/kg	
75-34-3	1,1-Dichloroethane	ND	500	100	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	500	150	ug/kg	
563-58-6	1,1-Dichloropropene	ND	500	150	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	500	100	ug/kg	
106-93-4	1,2-Dibromoethane	ND	500	100	ug/kg	
107-06-2	1,2-Dichloroethane	ND	500	150	ug/kg	
78-87-5	1,2-Dichloropropane	ND	500	150	ug/kg	
142-28-9	1,3-Dichloropropane	ND	500	150	ug/kg	
108-20-3	Di-Isopropyl ether	ND	500	150	ug/kg	
594-20-7	2,2-Dichloropropane	ND	500	150	ug/kg	
124-48-1	Dibromochloromethane	ND	500	100	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	500	100	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	500	150	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 2 of 3

Client Sample ID: STOCKPILE(A,B,C,D)COMP

Lab Sample ID: C15405-5 **Date Sampled:** 04/04/11 Matrix: SO - Soil **Date Received:** 04/04/11 Method: SW846 8260B Percent Solids: n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	500	150	ug/kg	
541-73-1	m-Dichlorobenzene	ND	500	150	ug/kg	
95-50-1	o-Dichlorobenzene	ND	500	150	ug/kg	
106-46-7	p-Dichlorobenzene	ND	500	150	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	500	150	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	500	150	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	500	150	ug/kg	
591-78-6	2-Hexanone	ND	4000	500	ug/kg	
87-68-3	Hexachlorobutadiene	ND	500	100	ug/kg	
98-82-8	Isopropylbenzene	229	500	150	ug/kg	J
99-87-6	p-Isopropyltoluene	ND	500	150	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	4000	1500	ug/kg	
74-83-9	Methyl bromide	ND	500	250	ug/kg	
74-87-3	Methyl chloride	ND	500	150	ug/kg	
74-95-3	Methylene bromide	ND	500	250	ug/kg	
75-09-2	Methylene chloride	ND	2500	1600	ug/kg	
78-93-3	Methyl ethyl ketone	ND	4000	1200	ug/kg	
91-20-3	Naphthalene	5620	500	150	ug/kg	
103-65-1	n-Propylbenzene	991	500	150	ug/kg	
100-42-5	Styrene	ND	500	100	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	500	120	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	4000	1000	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	500	100	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	500	150	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	100	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	500	100	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	500	150	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	500	150	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	500	150	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	11000	500	150	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	2610	500	150	ug/kg	
127-18-4	Tetrachloroethylene	ND	500	350	ug/kg	
79-01-6	Trichloroethylene	ND	500	100	ug/kg	
75-69-4	Trichlorofluoromethane	ND	500	120	ug/kg	
75-01-4	Vinyl chloride	ND	500	250	ug/kg	
	TPH-GRO (C6-C10)	34600	10000	5000	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7	Dibromofluoromethane	100%		60-1	30%	

1868-53-7 Dibromofluoromethane 100% 60-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 3 of 3

Client Sample ID: STOCKPILE(A,B,C,D)COMP

Lab Sample ID: C15405-5 **Date Sampled:** 04/04/11 Matrix: SO - Soil **Date Received:** 04/04/11 Method: SW846 8260B Percent Solids: n/a a

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		60-130%
460-00-4	4-Bromofluorobenzene	99%		60-130%

(a) All results reported on wet weight basis.

(b) 4:1 composite

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 1 of 1

Client Sample ID: STOCKPILE(A,B,C,D)COMP

 Lab Sample ID:
 C15405-5
 Date Sampled:
 04/04/11

 Matrix:
 SO - Soil
 Date Received:
 04/04/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 1.8	1.8	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Arsenic	7.7	1.8	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Barium	154	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Beryllium	< 0.92	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Cadmium	< 0.92	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Chromium	50.4	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Cobalt	11.0	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Copper	20.5	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Lead	39.8	1.8	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Mercury	0.070	0.038	mg/kg	1	04/04/11	04/05/11 RW	SW846 7471A ¹	SW846 7471A ⁴
Molybdenum	< 0.92	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Nickel	32.6	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Selenium	< 1.8	1.8	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Silver	< 0.92	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Thallium	2.0	1.8	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Vanadium	44.7	0.92	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³
Zinc	67.4	1.8	mg/kg	1	04/04/11	04/05/11 DQ	SW846 6010B ²	SW846 3050B ³

(1) Instrument QC Batch: MA1803(2) Instrument QC Batch: MA1806(3) Prep QC Batch: MP3375(4) Prep QC Batch: MP3379

(a) All results reported on wet weight basis.

Page 1 of 1

Client Sample ID: STOCKPILE(A,B,C,D)COMP

 Lab Sample ID:
 C15405-5W
 Date Sampled:
 04/04/11

 Matrix:
 SO - Soil
 Date Received:
 04/04/11

 Percent Solids:
 n/a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis, STLC Leachate CA WET

Analyte	Result	MCL RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Chromium	< 0.50	0.50	mg/l	1	04/11/11	04/12/11 РН	SW846 6010B ¹	SW3010A ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3398

RL = Reporting Limit

MCL = Maximum Contamination Level (not available)





Misc. Forms	
Custody Documents and Other Forms	

Includes the following where applicable:

· Chain of Custody



			(СНА	IN	OF	С	US	T	OD	Υ												
		-	-	2105	Lundy A	ve, Sar	Jose	, CA	9513	1			FED-EX	Tracking	,				Bottle O	rder Co	ntrol#		
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Phone 916 - 863 Samplers's Name	-3220 n Whalen			<u>Bens</u> chase Order	ch @	2 Si						<u>ا</u>	PHG	BTEX	BE /	V 7				***************************************			AIR DW- Drinking Water (Perchlorate Only)
Accutest Sample	Field Point / Point of Collection			Sampled by	Matrix	# of bottles	П	ber of		erved	Bottle	ENCORE ENCORE	TP	B7	MTB	CAM							LAB USE ONLY
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C15405: Chain of Custody

Headspace Y/N N A On Ice YN
Separate Receiving Check List used: (Y/N

Page 1 of 2

Cooler Temp.



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Accutest Laboratories Northern California Sample Rec	eiving Check L	_ist Job# : C	15405	Initial: EK
Review Chain of Custody S to be com	plete and legible.			
Are these regulatory (NPDES) samples? GWA	(res) No	C 011-10-110		
pts pH requested?	Yes / No	Cilent Sample ID	pH Check	Other Comments/Issues
□ Was Client informed that hold time is 15 min? Yes / No Continu	e Yes/No			
AAL II 60 A A MILE A MI	e Yes/No			
Are sample within hold time?	(es)/ No			
Are sample in danger of exceeding hold-time	Yes / (10)			
Existing Client? (Yes / No Existing Project?	Yes)/ No			
If No: Is Report to info complete and legible, including;				
□ deliverable □ Name □ Address □ phone □ e-mail				
Is Bill to info complete and legible, including;				
□ PO# □ Credit card □ Contact □address □ phone □ e-mail				
Is Contact and/or Project Manager Identified, including;				
phone e-mail				
□ Project name / number	_			
Special requirements?	Yes/No			
ø Sample IDs / date & time of collection provided?	∕@P/No			
1s Matrix listed and correct?	Yes No			
Analyses listed, we do, or client has authorized a subcontract?	Yes) No	77		
Chain is signed and dated by both client and sample custodian?	Yes// No			
TAT requested available? Yes / No Approved by Pm				
	.			
Review Coolers:				
Were all Coolers temperatures measured at ≤6°C? 11.5°C	Yes/No			
y If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the left ∱Are samples on Ice?	(es)/ No			
Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators	, 0			
Shipment Received Method Walk In				
Custody Seals: Present: Yes / No If Yes; Unbroken:	Yes / No			
Review of Sample Bottles: If you answer no, explain to the side	į			
Chain matches bottle labels? (eg / No Sample bottle intact?	Nes) No			
r is there enough sample volume in proper bottle for requested analyses?	(es)/No			
Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes on less	. +			

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

□ Headspace-VOAs?

Greater than 6mm in diameter List sample ID and affected container

C15405: Chain of Custody Page 2 of 2





GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM726-MB2	M22636.D	1	04/04/11	XB	n/a	n/a	VM726

The QC reported here applies to the following samples: Method: SW846 8260B

C15405-5

CAS No.	Compound	Result	RL	MDL	Units Q
67-64-1	Acetone	ND	100	20	ug/kg
71-43-2	Benzene	ND	5.0	1.5	ug/kg
108-86-1	Bromobenzene	ND	5.0	1.5	ug/kg
74-97-5	Bromochloromethane	ND	5.0	1.5	ug/kg
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg
75-25-2	Bromoform	ND	5.0	1.0	ug/kg
104-51-8	n-Butylbenzene	ND	5.0	1.5	ug/kg
135-98-8	sec-Butylbenzene	ND	5.0	1.5	ug/kg
98-06-6	tert-Butylbenzene	ND	5.0	1.5	ug/kg
108-90-7	Chlorobenzene	ND	5.0	1.5	ug/kg
75-00-3	Chloroethane	ND	5.0	1.5	ug/kg
67-66-3	Chloroform	ND	5.0	1.5	ug/kg
95-49-8	o-Chlorotoluene	ND	5.0	1.5	ug/kg
106-43-4	p-Chlorotoluene	ND	5.0	1.5	ug/kg
56-23-5	Carbon tetrachloride	ND	5.0	1.0	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg
75-35-4	1,1-Dichloroethylene	ND	5.0	1.5	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.0	1.5	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/kg
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.0	1.5	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.0	1.5	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.0	1.5	ug/kg
108-20-3	Di-Isopropyl ether	ND	5.0	1.5	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.0	1.5	ug/kg
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg
10061-01-5		ND	5.0	1.5	ug/kg
541-73-1	m-Dichlorobenzene	ND	5.0	1.5	ug/kg
95-50-1	o-Dichlorobenzene	ND	5.0	1.5	ug/kg
106-46-7	p-Dichlorobenzene	ND	5.0	1.5	ug/kg
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg
10061-02-6	, 1 1	ND	5.0	1.5	ug/kg
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	1.5	ug/kg



Method: SW846 8260B

Method Blank Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM726-MB2	M22636.D	1	04/04/11	XB	n/a	n/a	VM726

The QC reported here applies to the following samples:

C15405-5

CAS No.	Compound	Result	RL	MDL	Units Q
591-78-6	2-Hexanone	ND	40	5.0	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg
98-82-8	Isopropylbenzene	ND	5.0	1.5	ug/kg
99-87-6	p-Isopropyltoluene	ND	5.0	1.5	ug/kg
108-10-1	4-Methyl-2-pentanone	ND	40	15	ug/kg
74-83-9	Methyl bromide	ND	5.0	2.5	ug/kg
74-87-3	Methyl chloride	ND	5.0	1.5	ug/kg
74-95-3	Methylene bromide	ND	5.0	2.5	ug/kg
75-09-2	Methylene chloride	ND	25	16	ug/kg
78-93-3	Methyl ethyl ketone	ND	40	12	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
91-20-3	Naphthalene	ND	5.0	1.5	ug/kg
103-65-1	n-Propylbenzene	ND	5.0	1.5	ug/kg
100-42-5	Styrene	ND	5.0	1.0	ug/kg
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	1.2	ug/kg
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.5	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.5	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.5	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.5	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.5	ug/kg
127-18-4	Tetrachloroethylene	ND	5.0	3.5	ug/kg
108-88-3	Toluene	ND	5.0	1.5	ug/kg
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.0	1.2	ug/kg
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/kg
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg



Method: SW846 8260B

Method Blank Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample VM726-MB2	File ID M22636.D	DF 1	Analyzed 04/04/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM726	

The QC reported here applies to the following samples:

C15405-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	60-130%
2037-26-5	Toluene-D8	104%	60-130%
460-00-4	4-Bromofluorobenzene	97%	60-130%

Method Blank Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM726-MB	M22617.D	1	04/04/11	XB	n/a	n/a	VM726

The QC reported here applies to the following samples:

VM726-BSD, VM726-BS1

CAS No.	Compound	Result	RL	MDL	Units Q
67-64-1	Acetone	ND	100	20	ug/kg
71-43-2	Benzene	ND	5.0	1.5	ug/kg
108-86-1	Bromobenzene	ND	5.0	1.5	ug/kg
74-97-5	Bromochloromethane	ND	5.0	1.5	ug/kg
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg
75-25-2	Bromoform	ND	5.0	1.0	ug/kg
104-51-8	n-Butylbenzene	ND	5.0	1.5	ug/kg
135-98-8	sec-Butylbenzene	ND	5.0	1.5	ug/kg
98-06-6	tert-Butylbenzene	ND	5.0	1.5	ug/kg
108-90-7	Chlorobenzene	ND	5.0	1.5	ug/kg
75-00-3	Chloroethane	ND	5.0	1.5	ug/kg
67-66-3	Chloroform	ND	5.0	1.5	ug/kg
95-49-8	o-Chlorotoluene	ND	5.0	1.5	ug/kg
106-43-4	p-Chlorotoluene	ND	5.0	1.5	ug/kg
56-23-5	Carbon tetrachloride	ND	5.0	1.0	ug/kg
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg
75-35-4	1,1-Dichloroethylene	ND	5.0	1.5	ug/kg
563-58-6	1,1-Dichloropropene	ND	5.0	1.5	ug/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.0	ug/kg
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg
107-06-2	1,2-Dichloroethane	ND	5.0	1.5	ug/kg
78-87-5	1,2-Dichloropropane	ND	5.0	1.5	ug/kg
142-28-9	1,3-Dichloropropane	ND	5.0	1.5	ug/kg
108-20-3	Di-Isopropyl ether	ND	5.0	1.5	ug/kg
594-20-7	2,2-Dichloropropane	ND	5.0	1.5	ug/kg
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	ug/kg
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/kg
541-73-1	m-Dichlorobenzene	ND	5.0	1.5	ug/kg
95-50-1	o-Dichlorobenzene	ND	5.0	1.5	ug/kg
106-46-7	p-Dichlorobenzene	ND	5.0	1.5	ug/kg
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg
10061-02-6		ND	5.0	1.5	ug/kg
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	1.5	ug/kg



Method Blank Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample VM726-MB	File ID M22617.D	DF 1	Analyzed 04/04/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM726

The QC reported here applies to the following samples:

VM726-BSD, VM726-BS1

CAS No.	Compound	Result	RL	MDL	Units Q
591-78-6	2-Hexanone	ND	40	5.0	ug/kg
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg
98-82-8	Isopropylbenzene	ND	5.0	1.5	ug/kg
99-87-6	p-Isopropyltoluene	ND	5.0	1.5	ug/kg
108-10-1	4-Methyl-2-pentanone	ND	40	15	ug/kg
74-83-9	Methyl bromide	ND	5.0	2.5	ug/kg
74-87-3	Methyl chloride	ND	5.0	1.5	ug/kg
74-95-3	Methylene bromide	ND	5.0	2.5	ug/kg
75-09-2	Methylene chloride	ND	25	16	ug/kg
78-93-3	Methyl ethyl ketone	ND	40	12	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
91-20-3	Naphthalene	ND	5.0	1.5	ug/kg
103-65-1	n-Propylbenzene	ND	5.0	1.5	ug/kg
100-42-5	Styrene	ND	5.0	1.0	ug/kg
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	1.2	ug/kg
75-65-0	Tert Butyl Alcohol	ND	40	10	ug/kg
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.0	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.5	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.0	ug/kg
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.5	ug/kg
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.5	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.5	ug/kg
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.5	ug/kg
127-18-4	Tetrachloroethylene	ND	5.0	3.5	ug/kg
108-88-3	Toluene	ND	5.0	1.5	ug/kg
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg
75-69-4	Trichlorofluoromethane	ND	5.0	1.2	ug/kg
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/kg
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg



Job Number: C15405

Method Blank Summary

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample VM726-MB	File ID M22617.D	DF 1	Analyzed 04/04/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM726

The QC reported here applies to the following samples:

VM726-BSD, VM726-BS1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	60-130%
2037-26-5	Toluene-D8	103%	60-130%
460-00-4	4-Bromofluorobenzene	96%	60-130%



Blank Spike Summary Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample VM726-BS1	File ID M22621.D	DF	Analyzed 04/04/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM726

The QC reported here applies to the following samples:

imits
)-130



Blank Spike/Blank Spike Duplicate Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM726-BS	M22620.D	1	04/04/11	XB	n/a	n/a	VM726
VM726-BSD	M22619.D	1	04/04/11	XB	n/a	n/a	VM726

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	160	143	89	157	98	9	60-130/30
71-43-2	Benzene	40	39.7	99	40.9	102	3	60-130/30
108-86-1	Bromobenzene	40	40.3	101	42.1	105	4	60-130/30
74-97-5	Bromochloromethane	40	38.9	97	40.5	101	4	60-130/30
75-27-4	Bromodichloromethane	40	40.2	101	42.2	106	5	60-130/30
75-25-2	Bromoform	40	40.8	102	41.6	104	2	60-130/30
104-51-8	n-Butylbenzene	40	43.4	109	42.7	107	2	60-130/30
135-98-8	sec-Butylbenzene	40	42.0	105	43.4	109	3	60-130/30
98-06-6	tert-Butylbenzene	40	41.3	103	42.1	105	2	60-130/30
108-90-7	Chlorobenzene	40	39.4	99	39.2	98	1	60-130/30
75-00-3	Chloroethane	40	40.5	101	43.8	110	8	60-130/30
67-66-3	Chloroform	40	40.5	101	41.1	103	1	60-130/30
95-49-8	o-Chlorotoluene	40	42.0	105	43.0	108	2	60-130/30
106-43-4	p-Chlorotoluene	40	40.5	101	42.3	106	4	60-130/30
56-23-5	Carbon tetrachloride	40	42.4	106	43.3	108	2	60-130/30
75-34-3	1,1-Dichloroethane	40	40.6	102	40.9	102	1	60-130/30
75-35-4	1,1-Dichloroethylene	40	41.9	105	42.4	106	1	60-130/30
563-58-6	1,1-Dichloropropene	40	40.6	102	41.9	105	3	60-130/30
96-12-8	1,2-Dibromo-3-chloropropane	40	35.8	90	39.4	99	10	60-130/30
106-93-4	1,2-Dibromoethane	40	38.0	95	39.1	98	3	60-130/30
107-06-2	1,2-Dichloroethane	40	38.1	95	40.2	101	5	60-130/30
78-87-5	1,2-Dichloropropane	40	38.9	97	40.4	101	4	60-130/30
142-28-9	1,3-Dichloropropane	40	37.8	95	38.7	97	2	60-130/30
108-20-3	Di-Isopropyl ether	40	39.5	99	40.5	101	3	60-130/30
594-20-7	2,2-Dichloropropane	40	41.8	105	40.9	102	2	60-130/30
124-48-1	Dibromochloromethane	40	41.0	103	40.8	102	0	60-130/30
75-71-8	Dichlorodifluoromethane	40	45.4	114	53.0	133* a	15	60-130/30
156-59-2	cis-1,2-Dichloroethylene	40	40.5	101	40.9	102	1	60-130/30
10061-01-5	cis-1,3-Dichloropropene	40	39.3	98	40.8	102	4	60-130/30
541-73-1	m-Dichlorobenzene	40	41.1	103	41.9	105	2	60-130/30
95-50-1	o-Dichlorobenzene	40	40.3	101	38.7	97	4	60-130/30
106-46-7	p-Dichlorobenzene	40	41.4	104	41.4	104	0	60-130/30
156-60-5	trans-1,2-Dichloroethylene	40	41.2	103	41.3	103	0	60-130/30
	trans-1,3-Dichloropropene	40	38.5	96	39.1	98	2	60-130/30
100-41-4	Ethylbenzene	40	40.0	100	39.9	100	0	60-130/30
637-92-3	Ethyl tert-Butyl Ether	40	39.4	99	40.5	101	3	60-130/30

Blank Spike/Blank Spike Duplicate Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM726-BS	M22620.D	1	04/04/11	XB	n/a	n/a	VM726
VM726-BSD	M22619.D	1	04/04/11	XB	n/a	n/a	VM726

The QC reported here applies to the following samples:

		Spike	BSP	BSP	BSD	BSD		Limits
CAS No.	Compound	ug/kg	ug/kg	%	ug/kg	%	RPD	Rec/RPD
591-78-6	2-Hexanone	160	146	91	161	101	10	60-130/30
87-68-3	Hexachlorobutadiene	40	42.3	106	43.9	110	4	60-130/30
98-82-8	Isopropylbenzene	40	40.3	101	40.0	100	1	60-130/30
99-87-6	p-Isopropyltoluene	40	42.6	107	43.4	109	2	60-130/30
108-10-1	4-Methyl-2-pentanone	160	149	93	166	104	11	60-130/30
74-83-9	Methyl bromide	40	40.8	102	45.3	113	10	60-130/30
74-87-3	Methyl chloride	40	44.2	111	46.8	117	6	60-130/30
74-95-3	Methylene bromide	40	38.9	97	40.4	101	4	60-130/30
75-09-2	Methylene chloride	40	39.7	99	40.8	102	3	60-130/30
78-93-3	Methyl ethyl ketone	160	152	95	168	105	10	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	39.0	98	40.6	102	4	60-130/30
91-20-3	Naphthalene	40	39.3	98	44.2	111	12	60-130/30
103-65-1	n-Propylbenzene	40	42.2	106	43.2	108	2	60-130/30
100-42-5	Styrene	40	39.0	98	39.0	98	0	60-130/30
994-05-8	Tert-Amyl Methyl Ether	40	38.8	97	40.0	100	3	60-130/30
75-65-0	Tert Butyl Alcohol	200	192	96	218	109	13	60-130/30
630-20-6	1,1,1,2-Tetrachloroethane	40	39.7	99	39.2	98	1	60-130/30
71-55-6	1,1,1-Trichloroethane	40	41.3	103	42.0	105	2	60-130/30
79-34-5	1,1,2,2-Tetrachloroethane	40	38.4	96	41.9	105	9	60-130/30
79-00-5	1,1,2-Trichloroethane	40	37.2	93	38.7	97	4	60-130/30
87-61-6	1,2,3-Trichlorobenzene	40	40.3	101	44.6	112	10	60-130/30
96-18-4	1,2,3-Trichloropropane	40	36.6	92	39.0	98	6	60-130/30
120-82-1	1,2,4-Trichlorobenzene	40	41.7	104	44.0	110	5	60-130/30
95-63-6	1,2,4-Trimethylbenzene	40	41.4	104	42.8	107	3	60-130/30
108-67-8	1,3,5-Trimethylbenzene	40	41.9	105	42.9	107	2	60-130/30
127-18-4	Tetrachloroethylene	40	41.9	105	46.9	117	11	60-130/30
108-88-3	Toluene	40	39.6	99	39.7	99	0	60-130/30
79-01-6	Trichloroethylene	40	40.7	102	41.5	104	2	60-130/30
75-69-4	Trichlorofluoromethane	40	42.5	106	43.0	108	1	60-130/30
75-01-4	Vinyl chloride	40	35.8	90	39.5	99	10	60-130/30
1330-20-7	Xylene (total)	120	118	98	118	98	0	60-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	101%	60-130%



Page 3 of 3

4

Blank Spike/Blank Spike Duplicate Summary Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
VM726-BS	M22620.D	1	04/04/11	XB	n/a	n/a	VM726
VM726-BSD	M22619.D	1	04/04/11	XB	n/a	n/a	VM726

The QC reported here applies to the following samples: Method: SW846 8260B

C15405-5

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	98%	98%	60-130%
460-00-4	4-Bromofluorobenzene	96%	95%	60-130%

(a) Outside laboratory control limits; within DOD-QSM4 control limits.



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C15380-1MS	M22643.D	1	04/04/11	XB	n/a	n/a	VM726
C15380-1MSD	M22644.D	1	04/04/11	XB	n/a	n/a	VM726
C15380-1	M22626.D	1	04/04/11	XB	n/a	n/a	VM726

The QC reported here applies to the following samples:

CAS No.	Compound	C15380 ug/kg	-1 Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		160	182	114	164	103	10	60-130/30
71-43-2	Benzene	ND		40	43.2	108	40.6	102	6	60-130/30
108-86-1	Bromobenzene	ND		40	40.8	102	38.9	98	5	60-130/30
74-97-5	Bromochloromethane	ND		40	42.7	107	40.2	101	6	60-130/30
75-27-4	Bromodichloromethane	ND		40	44.2	111	41.9	105	5	60-130/30
75-25-2	Bromoform	ND		40	46.8	117	44.1	111	6	60-130/30
104-51-8	n-Butylbenzene	ND		40	42.4	106	40.9	103	4	60-130/30
135-98-8	sec-Butylbenzene	ND		40	43.5	109	41.2	103	5	60-130/30
98-06-6	tert-Butylbenzene	ND		40	42.7	107	40.4	101	6	60-130/30
108-90-7	Chlorobenzene	ND		40	41.5	104	39.1	98	6	60-130/30
75-00-3	Chloroethane	ND		40	42.7	107	41.0	103	4	60-130/30
67-66-3	Chloroform	ND		40	43.8	110	40.8	102	7	60-130/30
95-49-8	o-Chlorotoluene	ND		40	41.3	103	40.0	100	3	60-130/30
106-43-4	p-Chlorotoluene	ND		40	42.8	107	39.2	98	9	60-130/30
56-23-5	Carbon tetrachloride	ND		40	45.8	115	44.3	111	3	60-130/30
75-34-3	1,1-Dichloroethane	ND		40	44.6	112	41.7	105	7	60-130/30
75-35-4	1,1-Dichloroethylene	ND		40	44.7	112	42.5	107	5	60-130/30
563-58-6	1,1-Dichloropropene	ND		40	43.0	108	40.7	102	5	60-130/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		40	46.8	117	43.1	108	8	60-130/30
106-93-4	1,2-Dibromoethane	ND		40	42.9	107	39.8	100	7	60-130/30
107-06-2	1,2-Dichloroethane	ND		40	43.0	108	40.0	100	7	60-130/30
78-87-5	1,2-Dichloropropane	ND		40	41.5	104	38.9	98	6	60-130/30
142-28-9	1,3-Dichloropropane	ND		40	43.7	109	40.5	102	8	60-130/30
108-20-3	Di-Isopropyl ether	ND		40	45.1	113	42.1	106	7	60-130/30
594-20-7	2,2-Dichloropropane	ND		40	43.3	108	40.2	101	7	60-130/30
124-48-1	Dibromochloromethane	ND		40	45.2	113	43.3	109	4	60-130/30
75-71-8	Dichlorodifluoromethane	ND		40	56.4	141* a	52.3	131* a	8	60-130/30
156-59-2	cis-1,2-Dichloroethylene	ND		40	43.1	108	40.5	102	6	60-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		40	44.4	111	41.0	103	8	60-130/30
541-73-1	m-Dichlorobenzene	ND		40	42.0	105	39.6	99	6	60-130/30
95-50-1	o-Dichlorobenzene	ND		40	42.8	107	39.8	100	7	60-130/30
106-46-7	p-Dichlorobenzene	ND		40	42.2	106	39.6	99	6	60-130/30
156-60-5	trans-1,2-Dichloroethylene	ND		40	43.6	109	40.8	102	7	60-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		40	39.9	100	37.8	95	5	60-130/30
100-41-4	Ethylbenzene	ND		40	41.0	103	39.1	98	5	60-130/30
637-92-3	Ethyl tert-Butyl Ether	ND		40	44.5	111	41.0	103	8	60-130/30

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C15380-1MS	M22643.D	1	04/04/11	XB	n/a	n/a	VM726
C15380-1MSD	M22644.D	1	04/04/11	XB	n/a	n/a	VM726
C15380-1	M22626.D	1	04/04/11	XB	n/a	n/a	VM726

The QC reported here applies to the following samples:

		C15380)-1	Spike	MS	MS	MSD	MSD		Limits
CAS No.	Compound	ug/kg	Q	ug/kg	ug/kg	%	ug/kg	%	RPD	Rec/RPD
591-78-6	2-Hexanone	ND		160	182	114	165	104	10	60-130/30
87-68-3	Hexachlorobutadiene	ND		40	43.6	109	41.2	103	6	60-130/30
98-82-8	Isopropylbenzene	ND		40	41.1	103	39.1	98	5	60-130/30
99-87-6	p-Isopropyltoluene	ND		40	41.8	105	39.5	99	6	60-130/30
108-10-1	4-Methyl-2-pentanone	ND		160	187	117	171	107	9	60-130/30
74-83-9	Methyl bromide	ND		40	44.4	111	41.2	103	7	60-130/30
74-87-3	Methyl chloride	ND		40	49.2	123	42.8	107	14	60-130/30
74-95-3	Methylene bromide	ND		40	43.3	108	40.5	102	7	60-130/30
75-09-2	Methylene chloride	ND		40	44.1	110	41.2	103	7	60-130/30
78-93-3	Methyl ethyl ketone	ND		160	190	119	174	109	9	60-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		40	47.2	118	43.6	109	8	60-130/30
91-20-3	Naphthalene	ND		40	46.7	117	43.5	109	7	60-130/30
103-65-1	n-Propylbenzene	ND		40	42.5	106	40.0	100	6	60-130/30
100-42-5	Styrene	ND		40	40.5	101	38.2	96	6	60-130/30
994-05-8	Tert-Amyl Methyl Ether	ND		40	45.9	115	42.3	106	8	60-130/30
75-65-0	Tert Butyl Alcohol	ND		200	246	123	219	110	12	60-130/30
630-20-6	1,1,1,2-Tetrachloroethane	ND		40	40.2	101	39.3	99	2	60-130/30
71-55-6	1,1,1-Trichloroethane	ND		40	44.5	111	41.7	105	6	60-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		40	45.9	115	41.6	104	10	60-130/30
79-00-5	1,1,2-Trichloroethane	ND		40	43.1	108	39.8	100	8	60-130/30
87-61-6	1,2,3-Trichlorobenzene	ND		40	42.1	105	39.7	100	6	60-130/30
96-18-4	1,2,3-Trichloropropane	ND		40	43.1	108	40.0	100	7	60-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		40	41.1	103	38.5	97	7	60-130/30
95-63-6	1,2,4-Trimethylbenzene	ND		40	41.8	105	39.3	99	6	60-130/30
108-67-8	1,3,5-Trimethylbenzene	ND		40	42.1	105	39.4	99	7	60-130/30
127-18-4	Tetrachloroethylene	ND		40	54.6	137* a	53.3	134* a	2	60-130/30
108-88-3	Toluene	ND		40	41.0	103	39.0	98	5	60-130/30
79-01-6	Trichloroethylene	ND		40	44.8	112	42.8	107	5	60-130/30
75-69-4	Trichlorofluoromethane	ND		40	43.2	108	40.9	103	5	60-130/30
75-01-4	Vinyl chloride	ND		40	40.7	102	36.6	92	11	60-130/30
1330-20-7	Xylene (total)	ND		120	124	103	118	99	5	60-130/30

CAS No.	Surrogate Recoveries	MS	MSD	C15380-1	Limits
1868-53-7	Dibromofluoromethane	106%	102%	104%	60-130%



Page 3 of 3

- 5

4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15405

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C15380-1MS	M22643.D	1	04/04/11	XB	n/a	n/a	VM726
C15380-1MSD	M22644.D	1	04/04/11	XB	n/a	n/a	VM726
C15380-1	M22626.D	1	04/04/11	XB	n/a	n/a	VM726

The QC reported here applies to the following samples: Method: SW846 8260B

C15405-5

CAS No.	Surrogate Recoveries	MS	MSD	C15380-1	Limits
2037-26-5	Toluene-D8	99%	99%	104%	60-130%
460-00-4	4-Bromofluorobenzene	97%	95%	98%	60-130%

(a) Outside control limits.



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- · Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: C15405

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3375 Methods: SW846 6010B Matrix Type: SOLID Units: mg/kg

Prep Date:

04/03/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	2	1.3		
Antimony	2.0	.98	1.2	0.080	<2.0
Arsenic	2.0	.78	.76	-1.2	<2.0
Barium	1.0	.03	.05	0.33	<1.0
Beryllium	1.0	.01	.02	0.010	<1.0
Boron	10	.73	1		
Cadmium	1.0	.06	.07	0.030	<1.0
Calcium	300	1.5	6.9		
Chromium	1.0	.07	.06	0.050	<1.0
Cobalt	1.0	.07	.08	0.36	<1.0
Copper	1.0	.06	.51	0.52	<1.0
Iron	10	. 25	.36		
Lead	2.0	. 4	.54	-0.28	<2.0
Lithium	1.0	.12	.22		
Magnesium	200	1.1	2.3		
Manganese	1.0	.01	.04		
Molybdenum	1.0	.12	.24	-0.060	<1.0
Nickel	1.0	.1	.18	0.11	<1.0
Potassium	200	3	6.2		
Selenium	2.0	1.2	1.5	-0.50	<2.0
Silicon	20	.76	7		
Silver	1.0	.05	.13	0.0	<1.0
Sodium	300	.79	3		
Strontium	1.0	.02	.04		
Thallium	2.0	.85	.74	-0.34	<2.0
Tin	50	. 27	2		
Titanium	1.0	.02	.15		
Vanadium	1.0	.05	.06	0.0	<1.0
Zinc	2.0	.04	.24	0.54	<2.0

Associated samples MP3375: C15405-5

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15405 Account: SWCICAFO - Sierra West Consultants, Inc. Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3375 Methods: SW846 6010B Matrix Type: SOLID Units: mg/kg

04/03/11 Prep Date:

Metal	C15366-1 Original		Spikelot MPIR4A	: % Rec	QC Limits
Aluminum					
Antimony	0.0	17.2	46.7	36.8N(a)	75-125
Arsenic	3.5	49.8	46.7	99.1	75-125
Barium	138	168	46.7	87.7	75-125
Beryllium	0.0095	42.6	46.7	91.1	75-125
Boron					
Cadmium	0.18	44.0	46.7	93.8	75–125
Calcium					
Chromium	38.3	72.3	46.7	75.3	75–125
Cobalt	8.0	50.7	46.7	92.0	75–125
Copper	26.4	78.9	46.7	115.8	75–125
Iron					
Lead	11.0	54.8	46.7	93.7	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum	0.59	43.0	46.7	90.7	75-125
Nickel	33.8	71.8	46.7	83.2	75-125
Potassium					
Selenium	0.0	41.1	46.7	88.0	75-125
Silicon					
Silver	0.18	47.1	46.7	100.8	75-125
Sodium					
Strontium					
Thallium	2.7	44.1	46.7	89.0	75–125
Tin					
Titanium					
Vanadium	47.2	95.1	46.7	106.4	75–125
Zinc	52.3	91.3	46.7	89.2	75-125

Associated samples MP3375: C15405-5

Results < IDL are shown as zero for calculation purposes

^(*) Outside of QC limits

⁽N) Matrix Spike Rec. outside of QC limits

⁽anr) Analyte not requested

⁽a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15405 Account: SWCICAFO - Sierra West Consultants, Inc. Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3375 Methods: SW846 6010B Matrix Type: SOLID Units: mg/kg

Prep Date:

04/03/11

Metal	C15366-1 Original		Spikelot MPIR4A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	18.9	49.5	38.2N(a)	5.4	20
Arsenic	3.5	53.9	49.5	101.8	0.2	20
Barium	138	174	49.5	94.9	5.6	20
Beryllium	0.0095	45.9	49.5	92.6	2.2	20
Boron						
Cadmium	0.18	47.4	49.5	95.4	1.9	20
Calcium						
Chromium	38.3	81.7	49.5	90.1	9.2	20
Cobalt	8.0	55.0	49.5	95.5	4.5	20
Copper	26.4	79.5	49.5	110.5	4.4	20
Iron						
Lead	11.0	59.5	49.5	98.0	4.1	20
Lithium						
Magnesium						
Manganese						
Molybdenum	0.59	46.3	49.5	92.3	3.7	20
Nickel	33.8	80.4	49.5	96.0	9.1	20
Potassium						
Selenium	0.0	44.7	49.5	90.3	0.7	20
Silicon						
Silver	0.18	50.6	49.5	102.2	2.4	20
Sodium						
Strontium						
Thallium	2.7	47.9	49.5	91.7	3.0	20
Tin						
Titanium						
Vanadium	47.2	97.5	49.5	105.2	0.9	20
Zinc	52.3	101	49.5	103.8	4.8	20

Associated samples MP3375: C15405-5

Results < IDL are shown as zero for calculation purposes

^(*) Outside of QC limits

⁽N) Matrix Spike Rec. outside of QC limits

⁽anr) Analyte not requested

⁽a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C15405 Account: SWCICAFO - Sierra West Consultants, Inc. Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

Units: mg/kg

QC Batch ID: MP3375 Methods: SW846 6010B

Prep Date: 04/03/11

Matrix Type: SOLID

Prep Date.			04/03/11	
Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits
Aluminum				
Antimony	50.3	50	100.6	80-120
Arsenic	49.2	50	98.4	80-120
Barium	45.2	50	90.4	80-120
Beryllium	46.3	50	92.6	80-120
Boron				
Cadmium	47.2	50	94.4	80-120
Calcium				
Chromium	49.0	50	98.0	80-120
Cobalt	49.9	50	99.8	80-120
Copper	50.3	50	100.6	80-120
Iron				
Lead	50.7	50	101.4	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum	48.9	50	97.8	80-120
Nickel	49.0	50	98.0	80-120
Potassium				
Selenium	45.9	50	91.8	80-120
Silicon				
Silver	50.8	50	101.6	80-120
Sodium				
Strontium				
Thallium	47.6	50	95.2	80-120
Tin				
Titanium				
Vanadium	50.1	50	100.2	80-120
Zinc	46.9	50	93.8	80-120

Associated samples MP3375: C15405-5

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C15405 Account: SWCICAFO - Sierra West Consultants, Inc. Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3375 Methods: SW846 6010B Matrix Type: SOLID Units: ug/l

04/03/11 Prep Date:

Metal	C15366-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	36.3	0.00	100.0(a)	0-10
Barium	1450	1350	1.4	0-10
Beryllium	0.100	1.50	275.0(a)	0-10
Boron				
Cadmium	1.90	0.00	100.0(a)	0-10
Calcium				
Chromium	402	406	4.3	0-10
Cobalt	83.7	85.5	5.2	0-10
Copper	277	251	3.5	0-10
Iron				
Lead	116	115	1.0	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum	6.20	0.00	100.0(a)	0-10
Nickel	355	370	7.2	0-10
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	1.90	0.00		0-10
Sodium				
Strontium				
Thallium	28.4	0.00	100.0(a)	0-10
Tin				
Titanium				
Vanadium	496	493	3.5	0-10
Zinc	549	549	5.5	0-10

Associated samples MP3375: C15405-5

Results < IDL are shown as zero for calculation purposes

^(*) Outside of QC limits

⁽anr) Analyte not requested

⁽a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: C15405

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

rioject. Fam Auto Service osi Site 1035 Foothill Biva, oakiana, ch

QC Batch ID: MP3379 Methods: SW846 7471A Matrix Type: SOLID Units: mg/kg

Prep Date: 04/04/11

Associated samples MP3379: C15405-5

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15405

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3379 Methods: SW846 7471A Matrix Type: SOLID Units: mg/kg

Prep Date: 04/04/11

Associated samples MP3379: C15405-5

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\hfill \hfill$

(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15405

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3379 Methods: SW846 7471A Matrix Type: SOLID Units: mg/kg

Prep Date:

04/04/11

Metal	C15405-5	Spikelot	MSD	QC
	Original MSD	HGPWS1 % Rec	RPD	Limit
Mercury	0.070 0.36	0.294 98.6	5.4	20

Associated samples MP3379: C15405-5

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\hfill \hfill$

(N) Matrix Spike Rec. outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C15405

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3379 Methods: SW846 7471A Matrix Type: SOLID Units: mg/kg

04/04/11 Prep Date:

Associated samples MP3379: C15405-5

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\bar{\ }$

BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: C15405

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B Matrix Type: LEACHATE Units: $\mbox{mg/l}$

Prep Date:

04/11/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	2.5	. 5	.65		
Antimony	1.3	.25	. 25		
Arsenic	1.3	. 2	.23		
Barium	0.50	.0075	.0075		
Beryllium	0.25	.0025	.005		
Boron	1.3	.18	.18		
Cadmium	0.25	.015	.02		
Calcium	130	.36	.36		
Chromium	0.50	.018	.018	-0.0025	<0.50
Cobalt	0.50	.018	.018		
Copper	0.50	.015	.02		
Iron	2.5	.063	.063		
Lead	1.3	.1	.13		
Lithium	0.50	.03	.03		
Magnesium	2.5	. 28	.48		
Manganese	0.50	.0025	.013		
Molybdenum	0.50	.03	.03		
Nickel	0.50	.025	.045		
Potassium	130	.76	.85		
Selenium	0.50	. 29	.31		
Silicon	1.3	.19	.19		
Silver	0.50	.013	.015		
Sodium	130	. 2	. 2		
Strontium	0.50	.005	.01		
Thallium	1.3	.21	.21		
Tin	1.3	.068	.09		
Titanium	0.50	.005	.005		
Vanadium	0.50	.013	.02		
Zinc	1.3	.01	.025		

Associated samples MP3398: C15405-5W

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15405 Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B Matrix Type: LEACHATE Units: mg/l

04/11/11 Prep Date:

Metal	C15405- Origina		Spikelot MPIR4A	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium	0.23	12.4	12.5	97.4	75-125
Cobalt					
Copper					
Iron					
Lead	anr				
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP3398: C15405-5W

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15405
Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B

QC Batch ID: MP3398 Methods: SW846 6010E Matrix Type: LEACHATE Units: mg/l

Prep Date:

04/11/11

Metal	C15405-9 Original		Spikelot MPIR4A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium	0.23	12.3	12.5	96.6	0.8	20
Cobalt						
Copper						
Iron						
Lead	anr					
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP3398: C15405-5W

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C15405

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B Matrix Type: LEACHATE Units: mg/l

04/11/11 Prep Date:

Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits		
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium	12.1	12.5	96.8	80-120		
Cobalt						
Copper						
Iron						
Lead	anr					
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP3398: C15405-5W

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C15405 Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B Matrix Type: LEACHATE Units: ug/l

04/11/11 Prep Date:

Metal	C15405-5W Original SDL 1:5	%DIF	QC Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium	9.10 8.00	12.1 (a)	0-10
Cobalt			
Copper			
Iron			
Lead	anr		
Lithium			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silicon			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc			

Associated samples MP3398: C15405-5W

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).



05/04/11



Technical Report for

Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Accutest Job Number: C15860

Sampling Date: 05/02/11

Report to:

Sierra West Consultants, Inc. 4227 Sunrise Blvd Suite#220 Fair Oaks, CA 95628 jbensch@sierra-west.net; bwhalen@sierra-west.net

ATTN: Jeff Bensch

Total number of pages in report: 25



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Simon Hague 408-588-0200

 $Certifications:\ CA\ (08258CA)\quad AZ\ (AZ0762)\quad DoD/ISO/IEC\ 17025:2005\ (L2242)$

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Laurie Glantz-Murphy

Laboratory Director

Sections:

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: C15860-5: STOCKPILE-2(A-D)COMP	5
Section 3: Misc. Forms	9
3.1: Chain of Custody	10
Section 4: GC/MS Semi-volatiles - QC Data Summaries	12
4.1: Method Blank Summary	13
4.2: Blank Spike/Blank Spike Duplicate Summary	16
4.3: Matrix Spike/Matrix Spike Duplicate Summary	19
Section 5: GC Semi-volatiles - QC Data Summaries	22
5.1: Method Blank Summary	23
5.2: Blank Spike/Blank Spike Duplicate Summary	24
5.3: Matrix Spike/Matrix Spike Duplicate Summary	25



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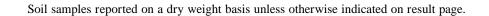
Sample Summary

Sierra West Consultants, Inc.

Job No: C15860

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
C15860-1	05/02/11	14:30 BW	05/02/11	SO	Soil	STOCKPILE-2(A)
C15860-2	05/02/11	14:30 BW	05/02/11	SO	Soil	STOCKPILE-2(B)
C15860-3	05/02/11	14:30 BW	05/02/11	SO	Soil	STOCKPILE-2(C)
C15860-4	05/02/11	14:30 BW	05/02/11	SO	Soil	STOCKPILE-2(D)
C15860-5	05/02/11	00:00 BW	05/02/11	SO	Soil	STOCKPILE-2(A-D)COMP







Sample Results	
Report of Analysis	



Page 1 of 3

Client Sample ID: STOCKPILE-2(A-D)COMP

 Lab Sample ID:
 C15860-5
 Date Sampled:
 05/02/11

 Matrix:
 SO - Soil
 Date Received:
 05/02/11

 Method:
 SW846 8270C
 SW846 3550B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 b Y7655.D 5 05/02/11 MT 05/02/11 OP3836 EY375

Run #2

Initial Weight Final Volume

Run #1 10.0 g 1.0 ml

Run #2

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	5000	4500	ug/kg	
95-57-8	2-Chlorophenol	ND	5000	3400	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	2500	2100	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	2500	700	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	2500	750	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	13000	4300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	10000	5200	ug/kg	
95-48-7	2-Methylphenol	ND	2500	850	ug/kg	
	3&4-Methylphenol	ND	2500	750	ug/kg	
88-75-5	2-Nitrophenol	ND	2500	650	ug/kg	
100-02-7	4-Nitrophenol	ND	10000	6200	ug/kg	
87-86-5	Pentachlorophenol	ND	2500	2100	ug/kg	
108-95-2	Phenol	ND	10000	6500	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	2500	600	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	2500	800	ug/kg	
83-32-9	Acenaphthene	ND	5000	2500	ug/kg	
208-96-8	Acenaphthylene	ND	2500	1000	ug/kg	
62-53-3	Aniline	ND	2500	700	ug/kg	
120-12-7	Anthracene	ND	2500	500	ug/kg	
103-33-3	Azobenzene	ND	2500	850	ug/kg	
92-87-5	Benzidine	ND	13000	3700	ug/kg	
56-55-3	Benzo(a)anthracene	ND	2500	350	ug/kg	
50-32-8	Benzo(a)pyrene	ND	2500	450	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	2500	300	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	2500	750	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	2500	600	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	2500	750	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	2500	550	ug/kg	
100-51-6	Benzyl Alcohol	ND	5000	800	ug/kg	
91-58-7	2-Chloronaphthalene	ND	2500	900	ug/kg	
106-47-8	4-Chloroaniline	ND	2500	700	ug/kg	
86-74-8	Carbazole	ND	2500	400	ug/kg	

ND = Not detected MDL - Method Detection Limit J

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

 $N = \ Indicates \ presumptive \ evidence \ of \ a \ compound$



Page 2 of 3

Client Sample ID: STOCKPILE-2(A-D)COMP

 Lab Sample ID:
 C15860-5
 Date Sampled:
 05/02/11

 Matrix:
 SO - Soil
 Date Received:
 05/02/11

 Method:
 SW846 8270C
 SW846 3550B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

ABN Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
218-01-9	Chrysene	ND	2500	500	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	2500	900	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	2500	1200	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2500	1400	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2500	950	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	2500	800	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	2500	750	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	2500	2100	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	2500	2300	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	5000	1600	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	13000	700	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	2500	650	ug/kg	
132-64-9	Dibenzofuran	ND	2500	800	ug/kg	
122-39-4	Diphenylamine	ND	2500	600	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	2500	500	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	2500	650	ug/kg	
84-66-2	Diethyl phthalate	ND	2500	850	ug/kg	
131-11-3	Dimethyl phthalate	ND	2500	900	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2500	1100	ug/kg	
206-44-0	Fluoranthene	ND	2500	500	ug/kg	
86-73-7	Fluorene	ND	2500	900	ug/kg	
118-74-1	Hexachlorobenzene	ND	2500	650	ug/kg	
87-68-3	Hexachlorobutadiene	ND	2500	950	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	2500	700	ug/kg	
67-72-1	Hexachloroethane	ND	2500	800	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2500	700	ug/kg	
78-59-1	Isophorone	ND	2500	850	ug/kg	
90-12-0	1-Methylnaphthalene	ND	2500	800	ug/kg	
91-57-6	2-Methylnaphthalene	ND	2500	800	ug/kg	
88-74-4	2-Nitroaniline	ND	2500	600	ug/kg	
99-09-2	3-Nitroaniline	ND	2500	600	ug/kg	
100-01-6	4-Nitroaniline	ND	2500	1500	ug/kg	
91-20-3	Naphthalene	ND	2500	850	ug/kg	
98-95-3	Nitrobenzene	ND	2500	800	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	25000	11000	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	5000	2800	ug/kg	
85-01-8	Phenanthrene	ND	2500	550	ug/kg	
129-00-0	Pyrene	ND	5000	3400	ug/kg	
110-86-1	Pyridine	ND	10000	1100	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	2500	1700	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 3 of 3

Client Sample ID: STOCKPILE-2(A-D)COMP

Lab Sample ID: C15860-5 **Date Sampled:** 05/02/11 Matrix: SO - Soil **Date Received:** 05/02/11 Method: SW846 8270C SW846 3550B Percent Solids: n/a a **Project:** F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		20-100%
4165-62-2	Phenol-d5	66%		20-100%
118-79-6	2,4,6-Tribromophenol	100%		30-100%
4165-60-0	Nitrobenzene-d5	52%		20-100%
321-60-8	2-Fluorobiphenyl	69%		20-106%
1718-51-0	Terphenyl-d14	136% ^c		55-130%

- (a) All results reported on wet weight basis.
- (b) Dilution required due to matrix interference (viscous extract; non-target hydrocarbons).
- (c) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 1 of 1

Client Sample ID: STOCKPILE-2(A-D)COMP

 Lab Sample ID:
 C15860-5
 Date Sampled:
 05/02/11

 Matrix:
 SO - Soil
 Date Received:
 05/02/11

 Method:
 SW846 8015B M
 SW846 3545A
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 GG24407.D 1 05/03/11 JH 05/02/11 OP3830 GGG674

Run #2

Run #1 10.0 g 1.0 ml

Run #2

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) TPH (> C28-C40)	17.1 50.0	10 20	5.0 10	mg/kg mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
630-01-3	Hexacosane	94%		45-1	40%	

(a) All results reported on wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound





Misc.	Forms		

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



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C15860: Chain of Custody

Page 1 of 2



	eiving Check	List Job#: C	19060	Initial: <u>EX</u>
Review Chain of Custody Chain of Custody is to be con	nplete and legible.			
Are these regulatory (NPDES) samples? CWA-	(es) No	Client Sample ID	pH Check	Other Comments/Issues
p/s pH requested?	Yes / No	Gilone Galerpio 15	prioricek	Other Commentarisaces
□ Was Client informed that hold time is 15 min? Yes / No Contin	ue Yes/No		-	· · · · · · · · · · · · · · · · · · ·
□ Was ortho-Phosphate filtered with in 15 min? Yes / No Continuous	ue Yes/No			
G∕are sample within hold time?	(es)/ No			
Are sample in danger of exceeding hold-time	Yes / (Vo)			
Existing Client? Yes No Existing Project?	(Yes)/No			
If No: Is Report to info complete and legible, including;	_			
o deliverable o Name o Address o phone o e-mail				
Is Bill to info complete and legible, including;				
o PO# □ Credit card □ Contact □address □ phone □ e-mail				
Is Contact and/or Project Manager identified, including;				
phone e-mail				
□ Project name / number				
Special requirements?	Yes/(No)			
ø∕Sample IDs / date & time of collection provided?	€ No			
s Matrix listed and correct?	No Reg			
Analyses listed, we do, or client has authorized a subcontract?	Yes) No			
Chain is signed and dated by both client and sample custodian?	res)/No			
Approved by PM Approved by PM				
9				
Review Coolers:				
vWere all Coolers temperatures measured at ≤6°C? 4. 9 °C	(Yes)/No			
If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the left				
Are samples on Ice?	(es)/ No			
Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerator	rs)			
4 AA				
Shipment Received MethodAC			-	
Custody Seals: Present: Yes / 😡 If Yes; Unbroken:	Yes / No			
Review of Sample Bottles: If you answer no, explain to the side				
Chain matches bottle labels? (G) / No (Sample bottle intact?	(Yes) No			
s there enough sample volume in proper bottle for requested analyses?	(res)/ No			<u> </u>
□ Proper Preservatives? Yes / No	_			
Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes on le				
□ Headspace-VOAs? Greater than 6mm in diameter List sample ID and affected container	Yes / No	ļ		
4				

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

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C15860: Chain of Custody

Page 2 of 2





GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3836-MB	Y7650.D	1	05/02/11	MT	05/02/11	OP3836	EY375

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	MDL	Units Q
65-85-0	Benzoic acid	ND	1000	890	ug/kg
95-57-8	2-Chlorophenol	ND	1000	680	ug/kg
59-50-7	4-Chloro-3-methyl phenol	ND	500	420	ug/kg
120-83-2	2,4-Dichlorophenol	ND	500	140	ug/kg
105-67-9	2,4-Dimethylphenol	ND	500	150	ug/kg
51-28-5	2,4-Dinitrophenol	ND	2500	850	ug/kg
534-52-1	4,6-Dinitro-o-cresol	ND	2000	1000	ug/kg
95-48-7	2-Methylphenol	ND	500	170	ug/kg
	3&4-Methylphenol	ND	500	150	ug/kg
88-75-5	2-Nitrophenol	ND	500	130	ug/kg
100-02-7	4-Nitrophenol	ND	2000	1200	ug/kg
87-86-5	Pentachlorophenol	ND	500	420	ug/kg
108-95-2	Phenol	ND	2000	1300	ug/kg
95-95-4	2,4,5-Trichlorophenol	ND	500	120	ug/kg
88-06-2	2,4,6-Trichlorophenol	ND	500	160	ug/kg
83-32-9	Acenaphthene	ND	1000	500	ug/kg
208-96-8	Acenaphthylene	ND	500	200	ug/kg
62-53-3	Aniline	ND	500	140	ug/kg
120-12-7	Anthracene	ND	500	100	ug/kg
103-33-3	Azobenzene	ND	500	170	ug/kg
92-87-5	Benzidine	ND	2500	730	ug/kg
56-55-3	Benzo(a)anthracene	ND	500	70	ug/kg
50-32-8	Benzo(a)pyrene	ND	500	90	ug/kg
205-99-2	Benzo(b)fluoranthene	ND	500	60	ug/kg
191-24-2	Benzo(g,h,i)perylene	ND	500	150	ug/kg
207-08-9	Benzo(k)fluoranthene	ND	500	120	ug/kg
101-55-3	4-Bromophenyl phenyl ether	ND	500	150	ug/kg
85-68-7	Butyl benzyl phthalate	ND	500	110	ug/kg
100-51-6	Benzyl Alcohol	ND	1000	160	ug/kg
91-58-7	2-Chloronaphthalene	ND	500	180	ug/kg
106-47-8	4-Chloroaniline	ND	500	140	ug/kg
86-74-8	Carbazole	ND	500	80	ug/kg
218-01-9	Chrysene	ND	500	100	ug/kg
111-91-1	bis(2-Chloroethoxy)methane	ND	500	180	ug/kg
111-44-4	bis(2-Chloroethyl)ether	ND	500	230	ug/kg
108-60-1	bis(2-Chloroisopropyl)ether	ND	500	270	ug/kg



Method Blank Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample OP3836-MB	File ID Y7650.D	DF 1	Analyzed 05/02/11	By MT	Prep Date 05/02/11	Prep Batch OP3836	Analytical Batch EY375

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	MDL	Units Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	500	190	ug/kg
95-50-1	1,2-Dichlorobenzene	ND	500	160	ug/kg
541-73-1	1,3-Dichlorobenzene	ND	500	150	ug/kg
106-46-7	1,4-Dichlorobenzene	ND	500	420	ug/kg
121-14-2	2,4-Dinitrotoluene	ND	500	460	ug/kg
606-20-2	2,6-Dinitrotoluene	ND	1000	320	ug/kg
91-94-1	3,3'-Dichlorobenzidine	ND	2500	140	ug/kg
53-70-3	Dibenzo(a,h)anthracene	ND	500	130	ug/kg
132-64-9	Dibenzofuran	ND	500	160	ug/kg
122-39-4	Diphenylamine	ND	500	120	ug/kg
84-74-2	Di-n-butyl phthalate	ND	500	100	ug/kg
117-84-0	Di-n-octyl phthalate	ND	500	130	ug/kg
84-66-2	Diethyl phthalate	ND	500	170	ug/kg
131-11-3	Dimethyl phthalate	ND	500	180	ug/kg
117-81-7	bis(2-Ethylhexyl)phthalate	ND	500	220	ug/kg
206-44-0	Fluoranthene	ND	500	100	ug/kg
86-73-7	Fluorene	ND	500	180	ug/kg
118-74-1	Hexachlorobenzene	ND	500	130	ug/kg
87-68-3	Hexachlorobutadiene	ND	500	190	ug/kg
77-47-4	Hexachlorocyclopentadiene	ND	500	140	ug/kg
67-72-1	Hexachloroethane	ND	500	160	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	ND	500	140	ug/kg
78-59-1	Isophorone	ND	500	170	ug/kg
90-12-0	1-Methylnaphthalene	ND	500	160	ug/kg
91-57-6	2-Methylnaphthalene	ND	500	160	ug/kg
88-74-4	2-Nitroaniline	ND	500	120	ug/kg
99-09-2	3-Nitroaniline	ND	500	120	ug/kg
100-01-6	4-Nitroaniline	ND	500	300	ug/kg
91-20-3	Naphthalene	ND	500	170	ug/kg
98-95-3	Nitrobenzene	ND	500	160	ug/kg
62-75-9	N-Nitrosodimethylamine	ND	5000	2200	ug/kg
621-64-7	N-Nitroso-di-n-propylamine	ND	1000	550	ug/kg
85-01-8	Phenanthrene	ND	500	110	ug/kg
129-00-0	Pyrene	ND	1000	680	ug/kg
110-86-1	Pyridine	ND	2000	220	ug/kg
120-82-1	1,2,4-Trichlorobenzene	ND	500	340	ug/kg



Method Blank Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch
OP3836-MB	Y7650.D	1	05/02/11	MT	05/02/11	OP3836	EY375

The QC reported here applies to the following samples:

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	65%	20-100%
4165-62-2	Phenol-d5	65%	20-100%
118-79-6	2,4,6-Tribromophenol	63%	30-100%
4165-60-0	Nitrobenzene-d5	64%	20-100%
321-60-8	2-Fluorobiphenyl	64%	20-106%
1718-51-0	Terphenyl-d14	75%	55-130%



Blank Spike/Blank Spike Duplicate Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch
OP3836-BS	Y7651.D	1	05/02/11	MT	05/02/11	OP3836	EY375
OP3836-BSD	Y7652.D	1	05/02/11	MT	05/02/11	OP3836	EY375

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
		88			**8'8	, •		
65-85-0	Benzoic acid	5000	3190	64	4340	87	31* a	24-116/30
95-57-8	2-Chlorophenol	2500	1490	60	2080	83	33* a	31-130/30
59-50-7	4-Chloro-3-methyl phenol	2500	1480	59	2030	81	31* a	35-117/30
120-83-2	2,4-Dichlorophenol	2500	1500	60	2060	82	31* a	40-111/30
105-67-9	2,4-Dimethylphenol	2500	1490	60	2080	83	33* a	29-109/30
51-28-5	2,4-Dinitrophenol	2500	1610	64	2380	95	39* a	19-117/30
534-52-1	4,6-Dinitro-o-cresol	2500	1400	56	2020	81	36* a	28-119/30
95-48-7	2-Methylphenol	2500	1500	60	2090	84	33* a	33-114/30
	3&4-Methylphenol	2500	1500	60	2080	83	32* a	34-115/30
88-75-5	2-Nitrophenol	2500	1430	57	2000	80	33* a	20-116/30
100-02-7	4-Nitrophenol	2500	1590	64	2200	88	32* a	6-114/30
87-86-5	Pentachlorophenol	2500	1800	72	2520	101	33* a	10-115/30
108-95-2	Phenol	2500	1470	59	2050	82	33* a	28-122/30
95-95-4	2,4,5-Trichlorophenol	2500	1490	60	2070	83	33* a	30-111/30
88-06-2	2,4,6-Trichlorophenol	2500	1440	58	2030	81	34* a	30-110/30
83-32-9	Acenaphthene	2500	1430	57	2010	80	34* a	34-129/30
208-96-8	Acenaphthylene	2500	1450	58	2050	82	34* a	38-118/30
62-53-3	Aniline	2500	1260	50	1700	68	30	28-112/30
120-12-7	Anthracene	2500	1510	60	2150	86	35* a	41-114/30
103-33-3	Azobenzene	2500	1390	56	1970	79	35* a	28-114/30
92-87-5	Benzidine	5000	1330	27	1570	31	17	10-156/30
56-55-3	Benzo(a)anthracene	2500	1560	62	2250	90	36* a	40-116/30
50-32-8	Benzo(a)pyrene	2500	1540	62	2270	91	38* a	39-112/30
205-99-2	Benzo(b)fluoranthene	2500	1510	60	2340	94	43* a	40-117/30
191-24-2	Benzo(g,h,i)perylene	2500	1420	57	2140	86	40* a	36-113/30
207-08-9	Benzo(k)fluoranthene	2500	1630	65	2300	92	34* a	41-117/30
101-55-3	4-Bromophenyl phenyl ether	2500	1320	53	1920	77	37* a	30-114/30
85-68-7	Butyl benzyl phthalate	2500	1750	70	2530	101	36* a	27-110/30
100-51-6	Benzyl Alcohol	2500	1610	64	2270	91	34* a	31-112/30
91-58-7	2-Chloronaphthalene	2500	1410	56	2000	80	35* a	37-115/30
106-47-8	4-Chloroaniline	2500	1260	50	1700	68	30	29-95/30
86-74-8	Carbazole	2500	1520	61	2180	87	36* a	40-116/30
218-01-9	Chrysene	2500	1540	62	2220	89	36* a	40-117/30
111-91-1	bis(2-Chloroethoxy)methane	2500	1520	61	2080	83	31* a	31-99/30
111-44-4	bis(2-Chloroethyl)ether	2500	1460	58	2010	80	32* a	30-106/30
108-60-1	bis(2-Chloroisopropyl)ether	2500	1530	61	2080	83	30	24-104/30

Blank Spike/Blank Spike Duplicate Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
OP3836-BS	Y7651.D	1	05/02/11	MT	05/02/11	OP3836	EY375
OP3836-BSD	Y7652.D	1	05/02/11	MT	05/02/11	OP3836	EY375

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
7005-72-3	4-Chlorophenyl phenyl ether	2500	1390	56	1970	79	35* a	30-111/30
95-50-1	1,2-Dichlorobenzene	2500	1420	57	1940	78	31* a	27-111/30
541-73-1	1,3-Dichlorobenzene	2500	1360	54	1850	74	31* a	25-116/30
106-46-7	1,4-Dichlorobenzene	2500	1370	55	1860	74	30	27-120/30
121-14-2	2,4-Dinitrotoluene	2500	1450	58	2070	83	35* a	27-114/30
606-20-2	2,6-Dinitrotoluene	2500	1460	58	2070	83	35* a	27-114/30
91-94-1	3,3'-Dichlorobenzidine	5000	2640	53	3860	77	38* a	24-118/30
53-70-3	Dibenzo(a,h)anthracene	2500	1410	56	2170	87	42* a	37-115/30
132-64-9	Dibenzofuran	2500	1420	57	2040	82	36* a	28-113/30
122-39-4	Diphenylamine	2500	1440	58	2060	82	35* a	23-117/30
84-74-2	Di-n-butyl phthalate	2500	1590	64	2310	92	37* a	29-115/30
117-84-0	Di-n-octyl phthalate	2500	1770	71	2640	106	39* a	29-127/30
84-66-2	Diethyl phthalate	2500	1500	60	2130	85	35* a	29-116/30
131-11-3	Dimethyl phthalate	2500	1430	57	2030	81	35* a	30-110/30
117-81-7	bis(2-Ethylhexyl)phthalate	2500	1610	64	2350	94	37* a	27-121/30
206-44-0	Fluoranthene	2500	1560	62	2230	89	35* a	40-120/30
86-73-7	Fluorene	2500	1430	57	2040	82	35* a	40-119/30
118-74-1	Hexachlorobenzene	2500	1420	57	2000	80	34* a	28-113/30
87-68-3	Hexachlorobutadiene	2500	1540	62	2160	86	34* a	29-115/30
77-47-4	Hexachlorocyclopentadiene	2500	1160	46	1710	68	38* a	26-114/30
67-72-1	Hexachloroethane	2500	1360	54	1830	73	29	24-109/30
193-39-5	Indeno(1,2,3-cd)pyrene	2500	1400	56	2140	86	42* a	37-114/30
78-59-1	Isophorone	2500	1420	57	1930	77	30	28-117/30
90-12-0	1-Methylnaphthalene	2500	1410	56	1950	78	32* a	25-113/30
91-57-6	2-Methylnaphthalene	2500	1510	60	2100	84	33* a	27-113/30
88-74-4	2-Nitroaniline	2500	1440	58	2010	80	33* a	23-116/30
99-09-2	3-Nitroaniline	2500	1240	50	1720	69	32* a	29-115/30
100-01-6	4-Nitroaniline	2500	1470	59	2100	84	35* a	29-114/30
91-20-3	Naphthalene	2500	1450	58	2020	81	33* a	24-113/30
98-95-3	Nitrobenzene	2500	1460	58	2010	80	32* a	23-112/30
62-75-9	N-Nitrosodimethylamine	2500	1400	57	1900	77	30	20-108/30
621-64-7	N-Nitroso-di-n-propylamine	2500	1470	59	2040	82	32* a	26-127/30
85-01-8	Phenanthrene	2500	1410	56	2040	82	37* a	41-113/30
129-00-0	Pyrene	2500	1630	65	2360	94	37* a	45-134/30
110-86-1	Pyridine	2500	998	40	1290	52	26	20-78/30
120-82-1	1,2,4-Trichlorobenzene	2500	1380	55	1930	77	33* a	31-122/30

Page 3 of 3

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Blank Spike/Blank Spike Duplicate Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Y7651.D	1	05/02/11	MT	05/02/11	OP3836	EY375
Y7652.D	1	05/02/11	MT	05/02/11	OP3836	EY375
	Y7651.D	Y7651.D 1	Y7651.D 1 05/02/11	Y7651.D 1 05/02/11 MT	Y7651.D 1 05/02/11 MT 05/02/11	Y7651.D 1 05/02/11 MT 05/02/11 OP3836

The QC reported here applies to the following samples: Method: SW846 8270C

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	63%	74%	20-100%
4165-62-2	Phenol-d5	63%	76%	20-100%
118-79-6	2,4,6-Tribromophenol	63%	87%	30-100%
4165-60-0	Nitrobenzene-d5	62%	73%	20-100%
321-60-8	2-Fluorobiphenyl	59%	76%	20-106%
1718-51-0	Terphenyl-d14	74%	105%	55-130%

⁽a) RPD outside laboratory control limits; spike recoveries within control limits in BS/BSD. Refer to MS/MSD for RPD information. All associated samples reextracted and confirmed ND.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3836-MS	Y7657.D	1	05/02/11	MT	05/02/11	OP3836	EY375
OP3836-MSD	Y7658.D	1	05/02/11	MT	05/02/11	OP3836	EY375
C15844-1 a	Y7656.D	1	05/02/11	MT	05/02/11	OP3836	EY375

The QC reported here applies to the following samples:

		C15844	-1	Spike	MS	MS	MSD	MSD		Limits
CAS No.	Compound	ug/kg	Q	ug/kg	ug/kg	%	ug/kg	%	RPD	Rec/RPD
65-85-0	Benzoic acid	ND		5000	ND	0* b	ND	0* b	nc	24-116/36
95-57-8	2-Chlorophenol	ND		2500	1270	51	1230	49	3	31-130/31
59-50-7	4-Chloro-3-methyl phenol	ND		2500	1800	72	1700	68	6	35-117/38
120-83-2	2,4-Dichlorophenol	ND		2500	1340	54	1280	51	5	40-111/30
105-67-9	2,4-Dimethylphenol	ND		2500	1370	55	1330	53	3	29-109/31
51-28-5	2,4-Dinitrophenol	ND		2500	1420	57	1240	50	14	19-117/40
534-52-1	4,6-Dinitro-o-cresol	ND		2500	1380	55	1300	52	6	28-119/37
95-48-7	2-Methylphenol	ND		2500	1300	52	1290	52	1	33-114/29
	3&4-Methylphenol	ND		2500	1340	54	1300	52	3	34-115/31
88-75-5	2-Nitrophenol	ND		2500	1190	48	1180	47	1	20-116/30
100-02-7	4-Nitrophenol	ND		2500	2500	100	2300	92	8	6-114/56
87-86-5	Pentachlorophenol	ND		2500	2320	93	2440	98	5	10-115/39
108-95-2	Phenol	ND		2500	1560	62	1500	60	4	28-122/38
95-95-4	2,4,5-Trichlorophenol	ND		2500	1890	76	1830	73	3	30-111/28
88-06-2	2,4,6-Trichlorophenol	ND		2500	1360	54	1410	56	4	30-110/27
83-32-9	Acenaphthene	ND		2500	1480	59	1440	58	3	34-129/31
208-96-8	Acenaphthylene	ND		2500	1460	58	1430	57	2	38-118/30
62-53-3	Aniline	ND		2500	1240	50	1210	48	2	28-112/38
120-12-7	Anthracene	ND		2500	2230	89	2250	90	1	41-114/29
103-33-3	Azobenzene	ND		2500	1760	70	1750	70	1	28-114/27
92-87-5	Benzidine	ND		5000	2090	42	2110	42	1	10-156/50
56-55-3	Benzo(a)anthracene	ND		2500	2490	100	2480	99	0	40-116/31
50-32-8	Benzo(a)pyrene	ND		2500	2490	100	2530	101	2	39-112/32
205-99-2	Benzo(b)fluoranthene	ND		2500	2570	103	2700	108	5	40-117/31
191-24-2	Benzo(g,h,i)perylene	ND		2500	2100	84	2180	87	4	36-113/32
207-08-9	Benzo(k)fluoranthene	ND		2500	2650	106	2600	104	2	41-117/30
101-55-3	4-Bromophenyl phenyl ether	ND		2500	1960	78	1880	75	4	30-114/26
85-68-7	Butyl benzyl phthalate	136	J	2500	3010	115* b	3040	116* b	1	27-110/28
100-51-6	Benzyl Alcohol	ND		2500	1440	58	1400	56	3	31-112/34
91-58-7	2-Chloronaphthalene	ND		2500	1300	52	1280	51	2	37-115/28
106-47-8	4-Chloroaniline	ND		2500	1250	50	1220	49	2	29-95/34
86-74-8	Carbazole	ND		2500	2310	92	2340	94	1	40-116/30
218-01-9	Chrysene	ND		2500	2420	97	2420	97	0	40-117/31
111-91-1	bis(2-Chloroethoxy)methane	ND		2500	1290	52	1250	50	3	31-99/30
111-44-4	bis(2-Chloroethyl)ether	ND		2500	1240	50	1230	49	1	30-106/33
108-60-1	bis(2-Chloroisopropyl)ether	ND		2500	1270	51	1230	49	3	24-104/32

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3836-MS	Y7657.D	1	05/02/11	MT	05/02/11	OP3836	EY375
OP3836-MSD	Y7658.D	1	05/02/11	MT	05/02/11	OP3836	EY375
C15844-1 a	Y7656.D	1	05/02/11	MT	05/02/11	OP3836	EY375

The QC reported here applies to the following samples:

CAS No.	Compound	C15844 ug/kg	-1 Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
7005-72-3	4-Chlorophenyl phenyl ether	ND		2500	1680	67	1660	66	1	30-111/26
95-50-1	1,2-Dichlorobenzene	ND ND		2500	1190	48	1170	47	2	27-111/35
541-73-1	1,3-Dichlorobenzene	ND ND		2500	1130	45	1170	44	2	25-116/36
341-73-1 106-46-7	1,4-Dichlorobenzene	ND ND		2500	1150	46	1110	44	3	27-120/30
121-14-2	2,4-Dinitrotoluene	ND ND		2500	2100	84	2110	84	0	27-120/30
606-20-2	2,6-Dinitrotoluene	ND ND		2500	1830	73	1790	72	2	27-114/30
91-94-1	3,3'-Dichlorobenzidine	ND ND		5000	4550	91	4540	91	0	24-118/31
53-70-3		ND ND		2500	2210	88	2310	91	4	37-115/29
	Dibenzo(a,h)anthracene			2500	1590			62	3	
132-64-9	Dibenzofuran	ND ND				64	1540	81		28-113/27
122-39-4	Diphenylamine	ND ND		2500	2080 2530	83	2030		2	23-117/28
84-74-2	Di-n-butyl phthalate	ND		2500		101	2500	100	1	29-115/27
117-84-0	Di-n-octyl phthalate	734		2500	3940	128* b	3890	126	1	29-127/28
84-66-2	Diethyl phthalate	ND		2500	2210	88	2120	85	4	29-116/27
131-11-3	Dimethyl phthalate	ND		2500	1820	73	1740	70	4	30-110/26
117-81-7	bis(2-Ethylhexyl)phthalate	262 ND	J	2500	3150	116	3040	111	4	27-121/29
206-44-0	Fluoranthene	ND		2500	2400	96	2410	96	0	40-120/32
86-73-7	Fluorene	ND		2500	1770	71	1730	69	2	40-119/30
118-74-1	Hexachlorobenzene	ND		2500	2090	84	2100	84	0	28-113/27
87-68-3	Hexachlorobutadiene	ND		2500	1290	52	1260	50	2	29-115/33
77-47-4	Hexachlorocyclopentadiene	ND		2500	608	24* b	579	23* b	5	26-114/41
67-72-1	Hexachloroethane	ND		2500	1090	44	1090	44	0	24-109/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2500	2210	88	2260	90	2	37-114/33
78-59-1	Isophorone	ND		2500	1240	50	1210	48	2	28-117/30
90-12-0	1-Methylnaphthalene	ND		2500	1260	50	1230	49	2	25-113/33
91-57-6	2-Methylnaphthalene	ND		2500	1330	53	1290	52	3	27-113/32
88-74-4	2-Nitroaniline	ND		2500	1820	73	1770	71	3	23-116/29
99-09-2	3-Nitroaniline	ND		2500	1890	76	1840	74	3	29-115/31
100-01-6	4-Nitroaniline	ND		2500	2260	90	2270	91	0	29-114/31
91-20-3	Naphthalene	ND		2500	1280	51	1260	50	2	24-113/32
98-95-3	Nitrobenzene	ND		2500	1260	50	1210	48	4	23-112/32
62-75-9	N-Nitrosodimethylamine	ND		2500	1200	49	1200	48	4	20-108/34
621-64-7	N-Nitroso-di-n-propylamine	ND		2500	1290	52	1220	49	6	26-127/43
85-01-8	Phenanthrene	ND		2500	2190	88	2120	85	3	41-113/32
129-00-0	Pyrene	ND		2500	2700	108	2810	112	4	45-134/33
110-86-1	Pyridine	ND		2500	750	30	744	30	1	20-78/38
120-82-1	1,2,4-Trichlorobenzene	ND		2500	1190	48	1160	46	3	31-122/44

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3836-MS	Y7657.D	1	05/02/11	MT	05/02/11	OP3836	EY375
OP3836-MSD	Y7658.D	1	05/02/11	MT	05/02/11	OP3836	EY375
C15844-1 a	Y7656.D	1	05/02/11	MT	05/02/11	OP3836	EY375

The QC reported here applies to the following samples: **Method:** SW846 8270C

CAS No.	Surrogate Recoveries	MS	MSD	C15844-1	Limits
367-12-4	2-Fluorophenol	55%	53%		20-100%
4165-62-2	Phenol-d5	56%	54%		20-100%
118-79-6	2,4,6-Tribromophenol	85%	89%		30-100%
4165-60-0	Nitrobenzene-d5	55%	53%		20-100%
321-60-8	2-Fluorobiphenyl	56%	54%		20-106%
1718-51-0	Terphenyl-d14	123%	127%		55-130%

⁽a) Sample used for QC purposes only.

⁽b) Outside control limits due to matrix interference.



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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method: SW846 8015B M

Method Blank Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample OP3830-MB	File ID GG24350.D	DF 1	Analyzed 05/02/11	Ву ЈН	Prep Date 05/02/11	Prep Batch OP3830	Analytical Batch GGG673

The QC reported here applies to the following samples:

C15860-5

CAS No.	Compound	Result	RL	MDL	Units Q
	TPH (C10-C28)	ND	10	5.0	mg/kg
	TPH (> C28-C40)	ND	20	10	mg/kg

CAS No. Surrogate Recoveries Limits
630-01-3 Hexacosane 91% 45-140%



5.2.1

Page 1 of 1

Method: SW846 8015B M

Blank Spike/Blank Spike Duplicate Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3830-BS	GG24351.D	1	05/02/11	JH	05/02/11	OP3830	GGG673
OP3830-BSD	GG24352.D	1	05/02/11	JH	05/02/11	OP3830	GGG673

The QC reported here applies to the following samples:

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28) TPH (> C28-C40)	100 100	80.1 79.4	80 79	82.6 82.2	83 82	3	45-140/30 45-140/30
CAS No.	Surrogate Recoveries	BSP	BSI)	Limits			
630-01-3	Hexacosane	89%	93%	Ď	45-140%	ó		



5.3.1

-3

Page 1 of 1

Method: SW846 8015B M

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15860

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3830-MS	GG24419.D	4	05/04/11	JH	05/02/11	OP3830	GGG674
OP3830-MSD	GG24420.D	4	05/04/11	JН	05/02/11	OP3830	GGG674
C15822-1	GG24405.D	1	05/03/11	JН	05/02/11	OP3830	GGG674

The QC reported here applies to the following samples:

CAS No.	Compound	C15822-1 mg/kg Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28) TPH (> C28-C40)	30.5 41.8	100 100	81.5 124	51 82	95.6 118	65 76	16 5	45-140/30 45-140/30
CAS No.	Surrogate Recoveries	MS	MSD	C15	5822-1	Limits			
630-01-3	Hexacosane	86%	90%	83%	ó	45-140%	ó		





04/12/11



Technical Report for

Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Accutest Job Number: C15418

Sampling Date: 04/04/11

Report to:

Sierra West Consultants, Inc. 4227 Sunrise Blvd Suite#220 Fair Oaks, CA 95628 jbensch@sierra-west.net; bwhalen@sierra-west.net

ATTN: Jeff Bensch

Total number of pages in report: 33



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Simon Hague 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.



Laurie Glantz-Murphy

Laboratory Director

Sections:

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: C15418-1: CHIP-1	5
2.2: C15418-1W: CHIP-1	8
Section 3: Misc. Forms	9
3.1: Chain of Custody	10
Section 4: GC/MS Volatiles - QC Data Summaries	12
4.1: Method Blank Summary	13
4.2: Blank Spike Summary	15
4.3: Blank Spike/Blank Spike Duplicate Summary	16
4.4: Matrix Spike/Matrix Spike Duplicate Summary	17
Section 5: GC Semi-volatiles - QC Data Summaries	18
5.1: Method Blank Summary	19
5.2: Blank Spike/Blank Spike Duplicate Summary	
5.3: Matrix Spike/Matrix Spike Duplicate Summary	21
Section 6: Metals Analysis - QC Data Summaries	22
6.1: Prep QC MP3380: Sb,As,Ba,Be,Cd,Cr,Co,Cu,Pb,Mo,Ni,Se,Ag,Tl,V,Zn	
6.2: Prep QC MP3388: Hg	25
63. Prop OC MD2208. Ph	20



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Sample Summary

Sierra West Consultants, Inc.

Job No: C15418

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	Collected Matrix		Client			
Number	Date	Time By	Received	Code	Type	Sample ID
C15418-1	04/04/11	13:26 BW	04/05/11	SO	Soil	CHIP-1
C15418-1W	04/04/11	13:26 BW	04/05/11	SO	Soil	CHIP-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.





Sample Results	
Report of Analysis	



Page 1 of 1

Client Sample ID: CHIP-1 Lab Sample ID: C15418-1 **Date Sampled:** 04/04/11 Matrix: SO - Soil **Date Received:** 04/05/11 Method: Percent Solids: n/a a SW846 8260B **Project:** F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 b	M22681.D	1	04/05/11	XB	n/a	n/a	VM727
Run #2							

Initial Weight Run #1 1.56 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	16	4.8	ug/kg	
108-88-3	Toluene	ND	16	4.8	ug/kg	
100-41-4	Ethylbenzene	ND	16	4.8	ug/kg	
1330-20-7	Xylene (total)	ND	32	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	16	3.2	ug/kg	
	TPH-GRO (C6-C10)	252	320	160	ug/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	2 Lim	its	
1868-53-7	Dibromofluoromethane	97%		60-1	.30%	
2037-26-5	Toluene-D8	104%		60-1	30%	
460-00-4	4-Bromofluorobenzene	94%		60-1	.30%	

(a) All results reported on wet weight basis.

(b) Elevated reporting limits due to limited amount of sample obtainable from concrete matrix.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 1 of 1

 Client Sample ID:
 CHIP-1

 Lab Sample ID:
 C15418-1
 Date Sampled:
 04/04/11

 Matrix:
 SO - Soil
 Date Received:
 04/05/11

 Method:
 SW846 8082
 SW846 3545A
 Percent Solids:
 n/a a

 Project:
 F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP16627.D	1	04/05/11	RV	04/05/11	OP3700	GPP587

Run #2

Run #1 10.0 g 10.0 ml
Run #2

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	100	17	ug/kg	
11104-28-2	Aroclor 1221	ND	100	50	ug/kg	
11141-16-5	Aroclor 1232	ND	100	50	ug/kg	
53469-21-9	Aroclor 1242	ND	100	50	ug/kg	
12672-29-6	Aroclor 1248	ND	100	50	ug/kg	
11097-69-1	Aroclor 1254	ND	100	50	ug/kg	
11096-82-5	Aroclor 1260	ND	100	20	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
877-09-8	Tetrachloro-m-xylene	73%		45-1	08%	
877-09-8	Tetrachloro-m-xylene	78%		45-1	08%	
2051-24-3	Decachlorobiphenyl	96%		54-1	21%	
2051-24-3	Decachlorobiphenyl	81%		54-1	21%	

⁽a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound



Page 1 of 1

| Client Sample ID: CHIP-1 | Lab Sample ID: C15418-1 | Date Sampled: 04/04/11 | Matrix: SO - Soil | Date Received: 04/05/11 | Percent Solids: n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	1.8	1.8	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Arsenic	6.6	1.8	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Barium	410	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Beryllium	< 0.91	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Cadmium	3.1	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Chromium	58.5	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Cobalt	8.6	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Copper	80.8	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Lead	1210	1.8	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Mercury	0.11	0.037	mg/kg	1	04/05/11	04/06/11 RW	SW846 7471A ²	SW846 7471A ⁴
Molybdenum	8.0	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Nickel	30.5	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Selenium	< 1.8	1.8	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Silver	< 0.91	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Thallium	< 1.8	1.8	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Vanadium	26.2	0.91	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³
Zinc	1260	1.8	mg/kg	1	04/05/11	04/06/11 RS	SW846 6010B ¹	SW846 3050B ³

(1) Instrument QC Batch: MA1808(2) Instrument QC Batch: MA1809(3) Prep QC Batch: MP3380(4) Prep QC Batch: MP3388

(a) All results reported on wet weight basis.

Page 1 of 1

Client Sample ID: CHIP-1

 Lab Sample ID:
 C15418-1W
 Date Sampled:
 04/04/11

 Matrix:
 SO - Soil
 Date Received:
 04/05/11

 Percent Solids:
 n/a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis, STLC Leachate CA WET

Analyte	Result	MCL RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 1.3	1.3	mg/l	1	04/11/11	04/12/11 РН	SW846 6010B ¹	SW3010A ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3398

RL = Reporting Limit

MCL = Maximum Contamination Level (not available)





Misc.	Forms		

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



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Project Contact: Jeff Bensch		1												\	Me								LIQ - Non-aqueous Liquid
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C15418: Chain of Custody Page 1 of 2

Accutest Laboratories Northern Ca	lifornia Sample	Receiving Check List	Job#:	C <u>15418</u>	Initial:TM
Review Chain of Custody	Chain of Custody is to	be complete and legible.			
Are these regulatory (NPDES) samples? GWA-		Yes /No	Client Sample ID	pH Check	Other Comments/Issues
□ Was Client informed that hold time is 15 min?	Yes / No	Continue Yes / No			

Review Chain of Custody	Chain of Custody is to be com	plete and legible.			
Are these regulatory (NPDES) samples? CWA		(es) No	Client Sample ID	pH Check	Other Comments/Issues
s pH requested?		Yes / No		<u> </u>	
Was Client informed that hold time is 15 min?	Yes / No Continue	e Yes/No		-	
Was ortho-Phosphate filtered with in 15 min?	Yes / No Continue	e Yes/No			
Are sample within hold time?		(es)/ No			
Are sample in danger of exceeding hold-time		Yes/No	/		
Existing Client? Yes / No Ex	risting Project?	(es) No			
If No: Is Report to info complete and legible, including	ng;	Ŭ			
o deliverable o Name o Address o phone	e □ e-mail				
Is Bill to info complete and legible, including;	;				
□ PO# □ Credit card □ Contact □address	s 🗆 phone 🗅 e-mail				
Is Contact and/or Project Manager identified	i, including;				
□ phone □ e-mail					
□ Project name / number					
Special requirements?		Yes / No			
✓Sample IDs / date & time of collection provided?		%es/No			
s Matrix listed and correct?		Yes) No			
Analyses listed, we do, or client has authorized a subc	ontract?	Yes) No Yes) No			
Chain is signed and dated by both client and sample of	ustodian?	Yes)/No			
TAT requested available? Yes / No	Approved by Pm		***		
<u> </u>					
Review Coolers:					
Were all Coolers temperatures measured at ≤6°C? 4	.6°C	χes/No			
y If cooler is outside the ≤6°C; note down the affected	bottles in that cooler on the left				
Are samples on ice?		(Peg / No	***************************************		
Note that ANC does NOT accept evidentiary sample	ies. (We do not lock refrigerators)			
Ac					
Shipment Received Method					
Custody Seals: Present: Yes / No	If Yes; Unbroken:	Yes / No			
		-			
Review of Sample Bottles: If you answer no, explain	to the side	_			
Chain matches bottle labels?	Sample bottle intact?	Yes No			
Is there enough sample volume in proper bottle for requ	uested analyses?	(Yes)/ No			
□ Proper Preservatives? Yes / No					
Check pH on preserved samples except 1664, 625, 8	8270 and VOAs; make notes on lef	t.			
D Headspace-VOAs? Greater than 6mm in diameter List sample ID and affected of		Yes / No			

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

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C15418: Chain of Custody Page 2 of 2





GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: C15418

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
VM727-MB2	M22677.D	1	04/05/11	XB	n/a	n/a	VM727

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	MDL	Units Q
71 10 0	D	MD	7 0	1.5	/1
71-43-2	Benzene	ND	5.0	1.5	ug/kg
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
108-88-3	Toluene	ND	5.0	1.5	ug/kg
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg

CAS No.	Surrogate Recoveries		Limits
	Dibromofluoromethane Toluene-D8	97% 105%	60-130% 60-130%
460-00-4	4-Bromofluorobenzene	98%	60-130%



Method Blank Summary

Job Number: C15418

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample VM727-MB	File ID M22664.D	DF 1	Analyzed 04/05/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM727

The QC reported here applies to the following samples:

VM727-BSD, VM727-BS1

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg
100-41-4 1634-04-4	Ethylbenzene Methyl Tert Butyl Ether	ND ND	5.0 5.0	1.5 1.0	ug/kg ug/kg
108-88-3 1330-20-7	Toluene Xylene (total)	ND ND	5.0	1.5 4.0	ug/kg ug/kg
1550 20 7	TPH-GRO (C6-C10)	ND	100	50	ug/kg

CAS No.	Surrogate Recoveries	gate Recoveries				
1868-53-7	Dibromofluoromethane	99%	60-130%			
2037-26-5	Toluene-D8	105%	60-130%			
460-00-4	4-Bromofluorobenzene	96%	60-130%			



Blank Spike Summary Job Number: C15418

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample VM727-BS1	File ID M22667.D	DF 1	Analyzed 04/05/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM727

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	250	283	113	60-130
CAS No.	Surrogate Recoveries	BSP	Lim	nita	
	<u> </u>				
1868-53-7	Dibromofluoromethane	98%	60-1	130%	
2037-26-5	Toluene-D8	103%	60-1	30%	
460-00-4	4-Bromofluorobenzene	97%	60-1	30%	



Blank Spike/Blank Spike Duplicate Summary

Job Number: C15418

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
VM727-BS	M22665.D	1	04/05/11	XB	n/a	n/a	VM727
VM727-BSD	M22666.D	1	04/05/11	XB	n/a	n/a	VM727

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	43.9	110	41.9	105	5	60-130/30
100-41-4	Ethylbenzene	40	44.4	111	41.1	103	8	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	42.3	106	40.7	102	4	60-130/30
108-88-3	Toluene	40	43.1	108	40.7	102	6	60-130/30
1330-20-7	Xylene (total)	120	129	108	119	99	8	60-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	Dibromofluoromethane Toluene-D8	103% 99%	103% 97%	60-130% 60-130%
460-00-4	4-Bromofluorobenzene	98%	96%	60-130%



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15418

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C15396-3MS	M22679.D	1	04/05/11	XB	n/a	n/a	VM727
C15396-3MSD	M22680.D	1	04/05/11	XB	n/a	n/a	VM727
C15396-3	M22670.D	1	04/05/11	XB	n/a	n/a	VM727

The QC reported here applies to the following samples:

CAS No.	Compound	C15396-3 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71 42 2	Domana	ND	20.6	38.8	98	15.6	114	16	60-130/30
71-43-2	Benzene	ND	39.6			45.6	114	16	
100-41-4	Ethylbenzene	ND	39.6	32.7	83	39.3	98	18	60-130/30
1634-04-4	Methyl Tert Butyl Ether	ND	39.6	46.6	118	55.0	138* a	17	60-130/30
108-88-3	Toluene	ND	39.6	34.6	87	41.7	104	19	60-130/30
1330-20-7	Xylene (total)	ND	119	97.0	82	118	98	20	60-130/30
CAS No.	Surrogate Recoveries	MS	MSD	C1	5396-3	Limits			
C115 110.	Surrogute Recoveries	1410	NIOD	C1	2270 2	Limits			
1868-53-7	Dibromofluoromethane	103%	103%	101	1%	60-1309	6		
2037-26-5	Toluene-D8	98%	99%	103	3%	60-1309	6		
460-00-4	4-Bromofluorobenzene	96%	97%	959	%	60-1309	6		

⁽a) Outside laboratory control limits.





GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method: SW846 8082

Method Blank Summary

Job Number: C15418

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch		
OP3700-MB	PP16630.D	1	04/05/11	RV	04/05/11	OP3700	GPP587		

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	MDL	Units Q
12674-11-2	Aroclor 1016	ND	100	17	ug/kg
11104-28-2	Aroclor 1221	ND	100	50	ug/kg
11141-16-5	Aroclor 1232	ND	100	50	ug/kg
53469-21-9	Aroclor 1242	ND	100	50	ug/kg
12672-29-6	Aroclor 1248	ND	100	50	ug/kg
11097-69-1	Aroclor 1254	ND	100	50	ug/kg
11096-82-5	Aroclor 1260	ND	100	20	ug/kg

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	51%	45-108%
877-09-8	Tetrachloro-m-xylene	53%	45-108%
2051-24-3	Decachlorobiphenyl	94%	54-121%
2051-24-3	Decachlorobiphenyl	77%	54-121%

5.2.1

Page 1 of 1

Method: SW846 8082

Blank Spike/Blank Spike Duplicate Summary

Job Number: C15418

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
OP3700-BS	PP16631.D	1	04/05/11	RV	04/05/11	OP3700	GPP587
OP3700-BSD	PP16632.D	1	04/05/11	RV	04/05/11	OP3700	GPP587

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	400	233	58	228	57	2	40-145/30
11096-82-5	Aroclor 1260	400	348	87	375	94	7	40-145/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	60%	57%	45-108%
877-09-8	Tetrachloro-m-xylene	61%	59%	45-108%
2051-24-3	Decachlorobiphenyl	99%	106%	54-121%
2051-24-3	Decachlorobiphenyl	82%	88%	54-121%

Page 1 of 1

Method: SW846 8082

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15418

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP3700-MS	PP16628.D	1	04/05/11	RV	04/05/11	OP3700	GPP587
OP3700-MSD	PP16629.D	1	04/05/11	RV	04/05/11	OP3700	GPP587
C15418-1	PP16627.D	1	04/05/11	RV	04/05/11	OP3700	GPP587

The QC reported here applies to the following samples:

C15418-1

CAS No. Compound	C15418-1 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2 Aroclor 1016	ND	400	303	76	306	77	1	40-145/40
11096-82-5 Aroclor 1260	ND	400	363	91	378	95	4	40-145/40
CAS No. Surrogate Recoveries	MS	MSD	C1:	5418-1	Limits			
877-09-8 Tetrachloro-m-xylene	74%	72%	739	6	45-1089	6		
877-09-8 Tetrachloro-m-xylene	73%	70%	789	6	45-1089	6		
2051-24-3 Decachlorobiphenyl	98%	93%	969	6	54-1219	6		
2051-24-3 Decachlorobiphenyl	84%	75%	819	6	54-1219	6		





Metals Analysis

QC Data Summaries

Includes the following where applicable:

- · Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: C15418

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3380 Methods: SW846 6010B Matrix Type: SOLID Units: mg/kg

Prep Date:

04/04/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	1.3	2		
Antimony	2.0	.07	.087	0.28	<2.0
Arsenic	2.0	.07	.07	0.040	<2.0
Barium	1.0	.04	.035	0.75	<1.0
Beryllium	1.0	.02	.012	-0.010	<1.0
Boron	10	.09	.2		
Cadmium	1.0	.02	.015	0.010	<1.0
Calcium	300	.71	7.6		
Chromium	1.0	.03	.054	0.10	<1.0
Cobalt	1.0	.02	.022	0.010	<1.0
Copper	1.0	.12	.19	0.15	<1.0
Iron	10	.64	1.6		
Lead	2.0	.07	.054	-0.040	<2.0
Magnesium	200	2.7	1.5		
Manganese	1.0	.01	.054		
Molybdenum	1.0	.02	.024	0.030	<1.0
Nickel	1.0	.02	.024	0.080	<1.0
Potassium	200	1.8	1.3		
Selenium	2.0	.18	.23	0.070	<2.0
Silicon	20	.12	.77		
Silver	1.0	.03	.044	-0.040	<1.0
Sodium	300	1.5	4.8		
Strontium	1.0	.02	.017		
Thallium	2.0	.05	.073	-0.11	<2.0
Tin	50	.02	.41		
Titanium	1.0	.04	.079		
Vanadium	1.0	.03	.025	0.010	<1.0
Zinc	2.0	.03	.098	3.9	* (a)

Associated samples MP3380: C15418-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\dot{}$

(anr) Analyte not requested

(a) All sample results >10x method blank concentration.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C15418 Account: SWCICAFO - Sierra West Consultants, Inc. Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3380 Methods: SW846 6010B Matrix Type: SOLID Units: mg/kg

04/04/11 Prep Date:

Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits
Aluminum				
Antimony	46.3	50	92.6	80-120
Arsenic	46.3	50	92.6	80-120
Barium	46.3	50	92.6	80-120
Beryllium	46.5	50	93.0	80-120
Boron				
Cadmium	45.9	50	91.8	80-120
Calcium				
Chromium	47.8	50	95.6	80-120
Cobalt	48.2	50	96.4	80-120
Copper	46.0	50	92.0	80-120
Iron				
Lead	44.3	50	88.6	80-120
Magnesium				
Manganese				
Molybdenum	46.7	50	93.4	80-120
Nickel	44.7	50	89.4	80-120
Potassium				
Selenium	45.6	50	91.2	80-120
Silicon				
Silver	46.4	50	92.8	80-120
Sodium				
Strontium				
Thallium	46.8	50	93.6	80-120
Tin				
Titanium				
Vanadium	46.5	50	93.0	80-120
Zinc	48.3	50	96.6	80-120

Associated samples MP3380: C15418-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\dot{\ }$

BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: C15418

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3388 Methods: SW846 7471A Matrix Type: SOLID Units: mg/kg

04/05/11 Prep Date:

Associated samples MP3388: C15418-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\bar{\ }$



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15418

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3388 Methods: SW846 7471A Matrix Type: SOLID Units: mg/kg

04/05/11 Prep Date:

Metal	C15400-2	Spikelot	QC
	Original MS	HGPWS1 % Rec	Limits
Mercury	0.018 0.36	0.313 109.4	75–125

Associated samples MP3388: C15418-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\hfill \hfill$

(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15418

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3388 Methods: SW846 7471A Matrix Type: SOLID Units: mg/kg

Prep Date:

04/05/11

Metal	C15400-2	Spikelot	MSD QC
	Original MSD	HGPWS1 % Rec	RPD Limi
Mercury	0.018 0.3	0.317 110.9	2.7 20

Associated samples MP3388: C15418-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\hfill \hfill$

(N) Matrix Spike Rec. outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C15418

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3388 Methods: SW846 7471A Matrix Type: SOLID Units: mg/kg

04/05/11 Prep Date:

Associated samples MP3388: C15418-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\bar{\ }$



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: C15418

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B Matrix Type: LEACHATE Units: mg/l

Prep Date:

04/11/11

					01/11/11
Metal	RL	IDL	MDL	MB raw	final
Aluminum	2.5	.5	.65		
Antimony	1.3	. 25	.25		
Arsenic	1.3	. 2	.23		
Barium	0.50	.0075	.0075		
Beryllium	0.25	.0025	.005		
Boron	1.3	.18	.18		
Cadmium	0.25	.015	.02		
Calcium	130	.36	.36		
Chromium	0.50	.018	.018		
Cobalt	0.50	.018	.018		
Copper	0.50	.015	.02		
Iron	2.5	.063	.063		
Lead	1.3	.1	.13	0.043	<1.3
Lithium	0.50	.03	.03		
Magnesium	2.5	. 28	.48		
Manganese	0.50	.0025	.013		
Molybdenum	0.50	.03	.03		
Nickel	0.50	.025	.045		
Potassium	130	.76	.85		
Selenium	0.50	. 29	.31		
Silicon	1.3	.19	.19		
Silver	0.50	.013	.015		
Sodium	130	. 2	. 2		
Strontium	0.50	.005	.01		
Thallium	1.3	.21	.21		
Tin	1.3	.068	.09		
Titanium	0.50	.005	.005		
Vanadium	0.50	.013	.02		
Zinc	1.3	.01	.025		

Associated samples MP3398: C15418-1W

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15418

Account: SWCICAFO - Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B Matrix Type: LEACHATE Units: mg/1

Prep Date: 04/11/11

Metal	C15405-9		Spikelot MPIR4A	: % Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium	anr				
Cobalt					
Copper					
Iron					
Lead	1.4	13.3	12.5	95.2	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP3398: C15418-1W

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15418

Account: SWCICAFO - Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B Matrix Type: LEACHATE Units: $\mbox{mg/l}$

Prep Date:

04/11/11

Trop Baco					01/11/11	
Metal	C15405-! Original		Spikelot MPIR4A	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron						
Lead	1.4	13.3	12.5	95.2	0.0	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP3398: C15418-1W

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\begin{tabular}{ll} \hline \end{tabular} .$

(N) Matrix Spike Rec. outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C15418

Account: SWCICAFO - Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B Matrix Type: LEACHATE Units: mg/1

Prep Date: 04/11/11

Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	11.9	12.5	95.2	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				

Associated samples MP3398: C15418-1W

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C15418
Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3398 Methods: SW846 6010B Matrix Type: LEACHATE Units: ug/l

Prep Date: 04/11/11

Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium anr Cobalt Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium	Metal	C15405-5W Original SDL 1:5	%DIF	QC Limits
Arsenic Barium Beryllium Boron Cadmium Calcium Chromium anr Cobalt Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Aluminum			
Barium Beryllium Boron Cadmium Calcium Chromium anr Cobalt Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Antimony			
Beryllium Boron Cadmium Calcium Chromium anr Cobalt Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Arsenic			
Boron Cadmium Calcium Chromium anr Cobalt Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium Vanadium	Barium			
Cadmium Chromium anr Cobalt Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium Vanadium	Beryllium			
Calcium Chromium anr Cobalt Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Boron			
Chromium anr Cobalt Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Cadmium			
Cobalt Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium Head S7.9 63.0 8.8 0-10 R.8 0-10	Calcium			
Copper Iron Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Chromium	anr		
Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Magnesium Manganese Wolybdenum Wolkel Potassium Selenium Silicon Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium Image: Wolf of the property of the	Cobalt			
Lead 57.9 63.0 8.8 0-10 Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Copper			
Lithium Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Iron			
Magnesium Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Lead	57.9 63.0	8.8	0-10
Manganese Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Lithium			
Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Magnesium			
Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Manganese			
Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Molybdenum			
Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium	Nickel			
Silver Sodium Strontium Thallium Tin Titanium Vanadium	Potassium			
Silver Sodium Strontium Thallium Tin Titanium Vanadium	Selenium			
Sodium Strontium Thallium Tin Titanium Vanadium	Silicon			
Strontium Thallium Tin Titanium Vanadium	Silver			
Thallium Tin Titanium Vanadium	Sodium			
Tin Titanium Vanadium	Strontium			
Titanium Vanadium	Thallium			
Vanadium	Tin			
	Titanium			
Zinc	Vanadium			
	Zinc			

Associated samples MP3398: C15418-1W

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested



Technical Report for

Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Accutest Job Number: C15418X

Sampling Date: 04/04/11

Report to:

Sierra West Consultants, Inc. 4227 Sunrise Blvd Suite#220 Fair Oaks, CA 95628 jbensch@sierra-west.net; bwhalen@sierra-west.net

ATTN: Jeff Bensch

Total number of pages in report:



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Laurie Glantz-Murphy Laboratory Director

Client Service contact: Simon Hague 408-588-0200

 $Certifications:\ CA\ (08258CA)\quad AZ\ (AZ0762)\quad DoD/ISO/IEC\ 17025:2005\ (L2242)$

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Sample Summary

Sierra West Consultants, Inc.

Job No: C15418X

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	Collected	l	Matrix	Client
Number	Date	Time By	Received Code Type	Sample ID
C15418-1X	04/04/11	13:26 BW	04/05/11 SO Soil	CHIP-1

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131 (408) 588-0200 FAX: (

FAX: (408) 588-0201	Accut
SWCTCAFORAID"	PS 65500

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest NC Job #: 9015 418

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Sierra	West Consulta	115			ame: F&	<u> </u>	AUT	0 :	XI (VIC	<u>e</u>		4											GW- Ground Water
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Project Contact: Teff Bensch Project #										LIQ - Non-aqueous Liquid														
Phone # 9 16 .	- 863-3220			EMAIL:	ensch a	@ Si	erra	- h	lesi	t. n	ne t		7 /		Lu	7								AIR
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1 D	ay (200% markup)				Provide	EDF Glo	bal ID							W	Rn	ana	1454	25 (are	COM	nole	e,	4/1	<i>'</i>
Sam	ne Day (300% markup)				Provide	EDF Log	jcode:					_												
Emergend	cy T/A data a <u>v</u> ailable VIA La		_											5	ω	halev	6	<u></u> (541	19	12-	109	6	
Ballan de de		ustody mu	st be do	cumente	d below eac	h time s	amples	chang	e pos	sessi	on, in	cluding	courier	delivery	<i>.</i>								(2)	
Relinquished by	Sampler:	I .	ate Time:		Received By:	18.	/	1.1		netingi	uished	ву:			Date Tim	(-	111		Received	βλ:	,	////	,	
1 4/5/11 1Mile Morefiel					1/4		2 Dallage	ulah	D			7/5/	//	11:4	·U	2	the s	\sim	/K	\mathcal{N}				
Relinquished by	<i>;</i> :	D	ate Time:		Received By:					Kelingi	ulshed	By:			Date Tin	10:/			Récelved	ъy:	,		6	/
3			ata Tirrer		3					4	l 0		An	lata Pari)	11		4	A	On look	\		Cooles Tom:
Relinquished by	<i>;</i> :	D	ate Time:		Received By:					Custod	ly Seal	#			o APres	_		space Y	Ig Check I		On Ice Y	,, ,,,	11.	Cooler Temp.
5					5								Labets	natch Co	N U		Separate	Heceivin	ig Check I	List used	: (Y) N	7	110	7-1.000

Accutest Laboratories Northern California Sample F	Receiving Check	List Job#: C	15418	Initial:
Review Chain of Custody Chain of Custody Is to be	e complete and legible.			
Are these regulatory (NPDES) samples? SWA	(es) No	Client Sample ID	pH Check	Other Comments/Issues
p√s pH requested?	Yes / No			
□ Was Client informed that hold time is 15 min? Yes / No Co	ontinue Yes / No			
□ Was ortho-Phosphate filtered with in 15 min? Yes / No Co	ontinue Yes / No			
p√Are sample within hold time?	Yes)/ No			
Are sample in danger of exceeding hold-time	Yes / No			
prÉxisting Client? Yes / No Existing Project?	Yes/ No			
If No: Is Report to info complete and legible, including;				
o deliverable o Name o Address o phone o e-mail				
ls Bill to info complete and legible, including;				
□ PO# □ Credit card □ Contact □address □ phone □ e-mail				
is Contact and/or Project Manager identified, including;				CONTROL CONTRO
□ phone □ e-mail				
□ Project name / number				
Special requirements?	Yes/No)			
✓ Sample IDs / date & time of collection provided?	₩9 / No			·
s Matrix listed and correct?	No (es)			
Analyses listed, we do, or client has authorized a subcontract?	Yes/ No			
Chain is signed and dated by both client and sample custodian?	(Yes)/ No			
TAT requested available? Yes / No Approved by Pm				
Review Coolers:				
Were all Coolers temperatures measured at ≤6°C? 4.6°C	Yes / No			
• If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the	left			
Are samples on ice?	f(e) ∕ No			
Note that ANC does NOT accept evidentiary samples. (We do not lock refrige	rators)			
AC.				
Shipment Received Method				
ustody Seals: Present: Yes / No If Yes; Unbroken:	Yes / No		-	
Review of Sample Bottles: If you answer no, explain to the side				
Chain matches bottle labels? (eg / No Sample bottle intact?	Nos No			
	res) No			
s there enough sample volume in proper bottle for requested analyses?	res/ No		-	
Proper Preservatives? Yes / No	on left			
Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes				
Headspace-VOAs? Greater than 6mm in diameter	Yes / No			

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

Subcontract Data

McCampbell Analytical,	Inc.
"When Quality Counts"	

Accutest Laboratories	Client Project ID: SWCICAF03210 (C15418)	Date Sampled: 04/04/11
2105 Lundy Ave		Date Received: 05/12/11
2100 Bandy 1110	Client Contact: Diane Theesen	Date Reported: 05/16/11
San Jose, CA 95131	Client P.O.: #C15418	Date Completed: 05/16/11

WorkOrder: 1105358

May 16, 2011

D	D:	
Llaar	Diane:	•
Dear	Diane.	

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: SWCICAF03210 (C15418),
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.





Accutest ID and PO#: C15418

2105 Lundy Avenue, San Jose, CA 95131 Phone : (408)588-0200 Fax: (408)588-0201

Subcontract Chain of Custody

Subcontract Lab: McCampbell

Date Sent: 05-12-11 Date Due: 2 Day TAT

Project Name: SWCICAF03210(C15418)

Project Location: Oakland, CA

Accutest Lab	Customer Sample	Matrix	Method	Collect	Collect
Number	Name/Field Point ID		EPA 8260	Date	Time
C15418-1	Chip-1	Sol	TCLP-PB	4-4-11	1326

Comments: Email dianet@accutest.com the report. Call with questions. 408-588-0200x244

Relinquished By	Received By:	Date:	Time:
elm	Deh lat	5/12/11	11: 25
Relinquished By:	Received By:	Date:	Time:
Derhlas	and V	slufa	15%
Relinquished By:	Received By:	Date:	Time:

ICE / t° APPROPRIATE
GOOD CONDITION APPROPRIATE
HEAD SPACE ABSENT CONTAINERS
DECHLORINATED IN LAB PRESERVED IN LAB
PRESERVATION

VOAS | O & G | METALS | OTHER |

McCampbell Analytical, Inc.

Comments:

48hr rush

CHAINLOF_CLISTODY RECORD

Page 1 of 1

- A 8	Villow Pass Rd				CI	1/\1	IN-C	л - С	US	יטטו	1 1/1	LCU	Nυ				
- // A 3	rg, CA 94565-1701 252-9262					Worl	Order	: 1105	358	(ClientC	ode: E	ALY				
		WaterTrax	WriteOr	n EDF		Excel		Fax		✓ Email		Hard	Сору	Thir	dParty	J-	flag
Report to: Diane Thee Accutest La 2105 Lundy San Jose, ((408) 588-02	aboratories Ave CA 95131	cc: PO: #	dianet@accu #C15418 SWCICAF032	test.com 210 (C15418)			Ac 22 Da	ccounts ccutest I 35 Rou ayton, N	Payabl Laborat ute 130 IJ 0881 accutes	ories 0			Date	uested e Rece e Prini	rived:	05/12/ 05/12/	
									Req			(See leg					
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1105358-001	Chip-1		Soil	4/4/2011 13:26		Α											
Test Legend: 1 TCL 6	P_PB_S 2 7 12			3 8				<u>4</u>	-				Ē	5 10		Venega	
													Prepa	area by	: Ana	v enegas	<u>s</u>

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name:	Accutest Laboratories				Dat	te a	and Time Received:	5/12/2011	4:14:38 PM
Project Name:	SWCICAF03210 (C15418)				Ch	ecł	klist completed and re	eviewed by:	Ana Venegas
WorkOrder N°:	1105358 Matrix	<u>Soil</u>			Car	rrie	er: Derik Cartan (N	MAI Courier)	
		Chain o	of Cu	stody (C	COC) Infor	ma	ation .		
Chain of custody	y present?		Yes	V	No 🗆]			
Chain of custody	y signed when relinquished and	received?	Yes	V	No 🗆]			
Chain of custody	y agrees with sample labels?	,	Yes	✓	No 🗆]			
Sample IDs noted	d by Client on COC?		Yes	V	No 🗆]			
Date and Time of	f collection noted by Client on CC	OC?	Yes	✓	No 🗆]			
Sampler's name	noted on COC?	,	Yes		No 🛂				
		Sar	nple	Receipt	t Informati	ior	<u>1</u>		
Custody seals in	ntact on shipping container/coole	er?	Yes		No 🗆]		NA 🔽	
Shipping contain	er/cooler in good condition?		Yes	V	No 🗆]			
Samples in prop	er containers/bottles?		Yes	✓	No 🗆]			
Sample containe	ers intact?	,	Yes	✓	No 🗆]			
Sufficient sample	e volume for indicated test?	,	Yes	✓	No 🗆]			
	<u>Sar</u>	nple Preserv	atior	n and Ho	old Time (I	HT) Information		
All samples rece	ived within holding time?		Yes	✓	No 🗆]			
Container/Temp	Blank temperature	(Coole	er Temp:	11.8°C			NA \square	
Water - VOA via	ıls have zero headspace / no bu	bbles?	Yes		No 🗆]	No VOA vials subm	itted 🗹	
Sample labels cl	hecked for correct preservation?	?	Yes	V	No 🗌]			
Metal - pH accep	otable upon receipt (pH<2)?		Yes		No 🗆]		NA 🗹	
Samples Receive	ed on Ice?		Yes	V	No 🗆				
		(Ice Type:	WE	TICE)				
* NOTE: If the "I	No" box is checked, see comme	ents below.							
		====			=	_			
Client contacted:	:	Date contacted	d:				Contacted	by:	
Comments:									

	"When Ouality Counts" Telephone: 877-252-9262 Fax: 925-252-9269										
Accutest Lab	oratories	Client Project (C15418)	ct ID: S	WCICAF03210		Date Sampled:	04/04/1	1			
2105 Lundy <i>A</i>	Ave	(C13416)				Date Received:	05/12/1	1			
		Client Cont	act: Dia	ane Theesen		Date Extracted:	05/12/11-05/13/11				
San Jose, CA	95131	Client P.O.:	#C154	18		Date Analyzed:	05/16/1	1			
				ad by ICP*							
Extraction method:	: SW1311/SW3050B		Analyt	rical methods: SW60	10B			Work Orc	ler: 1105358		
Lab ID	Client ID		Matrix	Extraction Type		Lead	DF	% SS	Comments		
1105358-001A	Chip-1		TCLP		ND	1	N/A				
						,					
	Reporting Limit for DF =1;		W	TOTAL		NA		μg/I			
]	ND means not detected at or		S	TCLP		0.2	mg/l	:			

*water samples are reported in $\mu g/L$, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in $\mu g/wipe$, filter samples in $\mu g/wipe$.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TCLP = Toxicity Characteristic Leaching Procedure.

above the reporting limit

DI TCLP = Toxicity Characteristic Leaching Procedure using DI water.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

QC SUMMARY REPORT FOR SW6010B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 58191 WorkOrder 1105358

EPA Method SW6010B	Extraction SW1311/SW3050B					Spiked Sample ID: N/A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
, and y to	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	N/A	1	N/A	N/A	N/A	78	85	8.49	N/A	N/A	75 - 125	25

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 58191 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1105358-001A	04/04/11 1:26 PM	1 05/12/11	05/16/11 10:51 AM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

ATTACHMENT F LABORATORY ANALYTICAL REPORT SOIL SAMPLES



04/21/11



Technical Report for

Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Accutest Job Number: C15478

Sampling Dates: 04/06/11 - 04/07/11

Report to:

Sierra West Consultants, Inc. 4227 Sunrise Blvd Suite#220 Fair Oaks, CA 95628 jbensch@sierra-west.net; bwhalen@sierra-west.net

ATTN: Jeff Bensch

Total number of pages in report: 71



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Simon Hague 408-588-0200

 $Certifications:\ CA\ (08258CA)\quad AZ\ (AZ0762)\quad DoD/ISO/IEC\ 17025:2005\ (L2242)$

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.



Laurie Glantz-Murphy

Laboratory Director

Sections:

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	5
2.1: C15478-1: 2A	6
2.2: C15478-2: 2B	8
2.3: C15478-3: 1A	10
2.4: C15478-4: 1B	12
2.5: C15478-5: 4SW	14
2.6: C15478-6: 4A	16
2.7: C15478-7: 4B	18
2.8: C15478-8: 4SE	20
2.9: C15478-9: 3A	22
2.10: C15478-10: 3SW	24
2.11: C15478-11: 3SE	26
2.12: C15478-12: 3B	28
2.13: C15478-13: DI-1	30
2.14: C15478-14: FL-2	32
2.15: C15478-15: DI-2	34
2.16: C15478-16: FL-1	36
2.17: C15478-17: 1S	38
2.18: C15478-18: 2S	40
Section 3: Misc. Forms	42
3.1: Chain of Custody	43
Section 4: GC/MS Volatiles - QC Data Summaries	46
4.1: Method Blank Summary	47
4.2: Blank Spike Summary	54
4.3: Blank Spike/Blank Spike Duplicate Summary	58
4.4: Matrix Spike/Matrix Spike Duplicate Summary	62
Section 5: Metals Analysis - QC Data Summaries	
5.1: Prep QC MP3406: Pb	67



Sample Summary

Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Job No: C15478

Sample Number	Collected Date	Time By	Received	Matri Code		Client Sample ID
C15478-1	04/06/11	13:30 BW	04/08/11	SO	Soil	2A
C15478-2	04/06/11	13:35 BW	04/08/11	SO	Soil	2B
C15478-3	04/06/11	13:40 BW	04/08/11	SO	Soil	1A
C15478-4	04/06/11	13:45 BW	04/08/11	SO	Soil	1B
C15478-5	04/06/11	17:00 BW	04/08/11	SO	Soil	4SW
C15478-6	04/06/11	17:05 BW	04/08/11	SO	Soil	4A
C15478-7	04/06/11	17:10 BW	04/08/11	SO	Soil	4B
C15478-8	04/06/11	17:15 BW	04/08/11	SO	Soil	4SE
C15478-9	04/07/11	10:10 BW	04/08/11	SO	Soil	3A
C15478-10	04/07/11	10:05 BW	04/08/11	SO	Soil	3SW
C15478-11	04/07/11	09:50 BW	04/08/11	SO	Soil	3SE
C15478-12	04/07/11	09:55 BW	04/08/11	SO	Soil	3B
C15478-13	04/07/11	11:25 BW	04/08/11	SO	Soil	DI-1

Soil samples reported on a dry weight basis unless otherwise indicated on result page.





Sample Summary (continued)

Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Job No: C15478

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
C15478-14	04/07/11	11:30 BW	04/08/11	SO	Soil	FL-2
C15478-15	04/07/11	11:35 BW	04/08/11	SO	Soil	DI-2
C15478-16	04/07/11	11:40 BW	04/08/11	SO	Soil	FL-1
C15478-17	04/07/11	12:45 BW	04/08/11	SO	Soil	18
C15478-18	04/07/11	12:50 BW	04/08/11	so	Soil	2S

Soil samples reported on a dry weight basis unless otherwise indicated on result page.





Sample Results	
Report of Analysis	
•	



Page 1 of 1

Client Sample ID: 2A

 Lab Sample ID:
 C15478-1
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22964.D	1	04/12/11	XB	n/a	n/a	VM734
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.05 g	5.0 ml	80.0 ul
Run #2			

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3	Benzene Toluene	ND ND	310 310	93 93	ug/kg ug/kg	
100-41-4	Ethylbenzene	ND	310	93	ug/kg	
1330-20-7	Xylene (total)	ND	620	250	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	310	62	ug/kg	
	TPH-GRO (C6-C10)	19400	6200	3100	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	99%		60-1	30%	
2037-26-5	Toluene-D8	102%		60-1	30%	
460-00-4	4-Bromofluorobenzene	Bromofluorobenzene 103% 60-13				

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 1 of 1

Client Sample ID: 2A

 Lab Sample ID:
 C15478-1
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	4.5	1.9	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

(a) All results reported on wet weight basis.

Page 1 of 1

Client Sample ID: 2B

 Lab Sample ID:
 C15478-2
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch
Run #1	M22963.D	1	04/12/11	XB	n/a	n/a	VM734
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.18 g	5.0 ml	30.0 ul

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND 293 ND ND 87500	800 800 800 1600 800 16000	240 240 240 640 160 8000	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	# 2 Limits		
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	101% 101% 104%	60-130% 60-130% 60-130%			

(a) All results reported on wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound



Page 1 of 1

Client Sample ID: 2B

 Lab Sample ID:
 C15478-2
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	12.0	1.9	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

(a) All results reported on wet weight basis.

Page 1 of 1

Client Sample ID: 1A

 Lab Sample ID:
 C15478-3
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22962.D	1	04/12/11	XB	n/a	n/a	VM734
D #2							

Run #2

	Initial Weight	Final Volume	Methanol Aliquot
Run #1 Run #2	5.25 g	5.0 ml	1.0 ul

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3	Benzene Toluene	ND ND	24000 24000	7100 7100	ug/kg ug/kg	
100-41-4 1330-20-7	Ethylbenzene Xylene (total)	46200 159000	24000 48000	7100 19000	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	24000	4800	ug/kg ug/kg	
	TPH-GRO (C6-C10)	1990000	480000	240000	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7	Dibromofluoromethane	102%		60-13	80%	
2037-26-5	Toluene-D8	100%		60-13	80%	
460-00-4	4-Bromofluorobenzene	103%		60-13	80%	

⁽a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 1 of 1

Client Sample ID: 1A

 Lab Sample ID:
 C15478-3
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	71.2	1.9	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

(a) All results reported on wet weight basis.

Page 1 of 1

Client Sample ID: 1B

 Lab Sample ID:
 C15478-4
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch
Run #1	M23034.D	1	04/14/11	XB	n/a	n/a	VM736
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.13 g	5.0 ml	5.0 ul
Run #2			

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND 1820 10700 ND 456000	4900 4900 4900 9700 4900 97000	1500 1500 1500 3900 970 49000	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7 2037-26-5	Dibromofluoromethane Toluene-D8	105% 100%	60-130% 60-130%			
460-00-4	4-Bromofluorobenzene	104%		60-1	30%	

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 1 of 1

Client Sample ID: 1B

 Lab Sample ID:
 C15478-4
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	28.8	1.9	mg/kg	1	04/12/11	04/12/11 рн	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

(a) All results reported on wet weight basis.

Page 1 of 1

 Client Sample ID:
 4SW

 Lab Sample ID:
 C15478-5
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

 Project:
 F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22906.D	1	04/11/11	XB	n/a	n/a	VM733
Run #2							

	Initial Weight	
Run #1	5.16 g	
Run #2		

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3	Benzene Toluene	5.3 23.9	4.8 4.8	1.5 1.5	ug/kg ug/kg	
100-41-4 1330-20-7	Ethylbenzene Xylene (total)	9.5 169	4.8 9.7	1.5 3.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.8	3.9 0.97	ug/kg ug/kg	
	TPH-GRO (C6-C10)	671	97	48	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	2 Lim	its	
1868-53-7	Dibromofluoromethane	108%		60-1	30%	
2037-26-5	Toluene-D8	100%		60-130%		
460-00-4	4-Bromofluorobenzene	103%		60-1	30%	

⁽a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

Client Sample ID: 4SW

Lab Sample ID:C15478-5Date Sampled:04/06/11Matrix:SO - SoilDate Received:04/08/11Percent Solids:n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	40.1	1.8	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

Instrument QC Batch: MA1820
 Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: 4A

 Lab Sample ID:
 C15478-6
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M22905.D	1	04/11/11	XB	n/a	n/a	VM733
Run #2							

Run #1 5.07 g Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND ND 10.7 ND 98.9	4.9 4.9 4.9 9.9 4.9	1.5 1.5 1.5 3.9 0.99 49	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	113% 100% 101%		60-1	30% 30% 30%	

⁽a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

Client Sample ID: 4A

 Lab Sample ID:
 C15478-6
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	8.2	1.8	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

Instrument QC Batch: MA1820
 Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: 4B

Lab Sample ID: C15478-7 **Date Sampled:** 04/06/11 Matrix: SO - Soil **Date Received:** 04/08/11 Method: SW846 8260B Percent Solids: n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 b	M22929.D	1	04/12/11	XB	n/a	n/a	VM733
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND 78.8 109 685 ND 7260	240 240 240 480 240 4800	72 72 72 190 48 2400	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	J J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7 2037-26-5 460-00-4	037-26-5 Toluene-D8		60-130% 60-130% 60-130%			

- (a) All results reported on wet weight basis.
- (b) Dilution required due to high concentration of non-target hydrocarbons.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range



N

Report of Analysis

Page 1 of 1

Client Sample ID: 4B

 Lab Sample ID:
 C15478-7
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	37.5	1.9	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: 4SE

 Lab Sample ID:
 C15478-8
 Date Sampled:
 04/06/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch
Run #1	M22920.D	1	04/11/11	XB	n/a	n/a	VM733
Run #2							

Initial Weight
Run #1 5.13 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	ND ND ND ND	4.9 4.9 4.9 9.7	1.5 1.5 1.5 3.9	ug/kg ug/kg ug/kg ug/kg	
1634-04-4 CAS No.	Methyl Tert Butyl Ether TPH-GRO (C6-C10) Surrogate Recoveries	ND ND Run# 1	4.9 97 Run# 2	0.97 49 Lim	ug/kg ug/kg	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	106% 102% 102%	Kuii# 2	60-1 60-1	30% 30% 30%	

⁽a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

Client Sample ID: 4SE

Lab Sample ID:C15478-8Date Sampled:04/06/11Matrix:SO - SoilDate Received:04/08/11Percent Solids:n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	13.7	1.8	mø/kø	1	04/12/11	04/12/11 рн	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: 3A

 Lab Sample ID:
 C15478-9
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M23033.D	1	04/14/11	XB	n/a	n/a	VM736
D 4/2							

Run #2

	Initial Weight	Final Volume	Methanol Aliquot
Run #1 Run #2	5.14 g	5.0 ml	8.0 ul

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND 4480 8500 ND 378000	3000 3000 3000 6100 3000 61000	910 910 910 2400 610 30000	ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	106% 98% 106%		60-13 60-13	30%	

(a) All results reported on wet weight basis.

ND = Not detected M

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

 $N = \ Indicates \ presumptive \ evidence \ of \ a \ compound$



Page 1 of 1

Client Sample ID: 3A

 Lab Sample ID:
 C15478-9
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	9.3	1.9	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: 3SW

 Lab Sample ID:
 C15478-10
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch
Run #1	M23071.D	1	04/16/11	XB	n/a	n/a	VM737
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	80.0 ul
Run #2	-		

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND 449 1020 ND 56400	300 300 300 600 300 6000	90 90 90 240 60 3000	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries Dibromofluoromethane	Run# 1	Run# 2	Limi 60-13	ts	
2037-26-5 460-00-4	Toluene-D8 4-Bromofluorobenzene	103% 101%		60-13 60-13		

⁽a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

Client Sample ID: 3SW

 Lab Sample ID:
 C15478-10
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	6.4	1.8	mg/kg	1	04/12/11	04/12/11 рн	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: 3SE

 Lab Sample ID:
 C15478-11
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch	
Run #1 b	M23066.D	1	04/15/11	XB	n/a	n/a	VM737	
Run #2								l

Initial Weight
Run #1 5.10 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND ND ND 15.6 187	4.9 4.9 4.9 9.8 4.9 98	1.5 1.5 1.5 3.9 0.98	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	108% 104% 106%		60-13 60-13 60-13	80%	

- (a) All results reported on wet weight basis.
- (b) Atypical gasoline pattern.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

Report of Analysis

Client Sample ID: 3SE

 Lab Sample ID:
 C15478-11
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	3.7	1.9	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

Instrument QC Batch: MA1820
 Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: 3B

Lab Sample ID: C15478-12 **Date Sampled:** 04/07/11 Matrix: SO - Soil **Date Received:** 04/08/11 Method: SW846 8260B Percent Solids: n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch
Run #1	M23068.D	1	04/16/11	XB	n/a	n/a	VM737
Run #2							

Initial Weight Run #1 2.99 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND 2.8 ND 15.4 857	8.4 8.4 8.4 17 8.4 170	2.5 2.5 2.5 6.7 1.7 84	ug/kg ug/kg ug/kg ug/kg ug/kg	J
CAS No.	Surrogate Recoveries Dibromofluoromethane	Run# 1	Run# 2	2 Lim	its 30%	
2037-26-5 460-00-4	Toluene-D8 4-Bromofluorobenzene	102% 106%			30%	

⁽a) All results reported on wet weight basis.

ND = Not detected

MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



N

Report of Analysis

Page 1 of 1

Client Sample ID: 3B

 Lab Sample ID:
 C15478-12
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	6.3	1.9	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

Client Sample ID: DI-1

 Lab Sample ID:
 C15478-13
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch
Run #1	M23051.D	1	04/15/11	XB	n/a	n/a	VM737
Run #2							

Run #1 5.08 g Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND ND ND ND ND	4.9 4.9 4.9 9.8 4.9 98	1.5 1.5 1.5 3.9 0.98 49	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	2 Lim	its	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	107% 103% 99%		60-1	30% 30% 30%	

(a) All results reported on wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



N

Report of Analysis

Page 1 of 1

Client Sample ID: DI-1

 Lab Sample ID:
 C15478-13
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	18.1	1.8	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

Instrument QC Batch: MA1820
 Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: FL-2

 Lab Sample ID:
 C15478-14
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M23063.D	1	04/15/11	XB	n/a	n/a	VM737

Run #2

Initial Weight

Run #1 5.21 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND ND ND ND ND	4.8 4.8 4.8 9.6 4.8	1.4 1.4 1.4 3.8 0.96 48	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi		
1868-53-7	Dibromofluoromethane	104%		60-13	30%	
2037-26-5	Toluene-D8	103%		60-13	30%	
460-00-4	4-Bromofluorobenzene	97%		60-13	30%	

⁽a) All results reported on wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



N

Report of Analysis

Page 1 of 1

Client Sample ID: FL-2

 Lab Sample ID:
 C15478-14
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	5.0	1.9	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: DI-2

 Lab Sample ID:
 C15478-15
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M23064.D	1	04/15/11	XB	n/a	n/a	VM737
Run #2							

Initial Weight
Run #1 5.07 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether	ND ND ND ND	4.9 4.9 4.9 9.9 4.9	1.5 1.5 1.5 3.9 0.99	ug/kg ug/kg ug/kg ug/kg ug/kg	
	TPH-GRO (C6-C10)	ND	99	49	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7 2037-26-5	Dibromofluoromethane Toluene-D8	108% 104%			30% 30%	
460-00-4	4-Bromofluorobenzene	98%		60-1	30%	

⁽a) All results reported on wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



1

Report of Analysis

Page 1 of 1

Client Sample ID: DI-2

 Lab Sample ID:
 C15478-15
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	7.6	1.8	mø/kø	1	04/12/11	04/12/11 рн	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1820(2) Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: FL-1

 Lab Sample ID:
 C15478-16
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M23065.D	1	04/15/11	XB	n/a	n/a	VM737
Run #2							

Initial Weight Run #1 5.09 g

Run #2

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3	Benzene Toluene	ND ND	4.9 4.9	1.5 1.5	ug/kg ug/kg	
100-41-4	Ethylbenzene	ND	4.9	1.5	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	3.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	0.98	ug/kg	
	TPH-GRO (C6-C10)	ND	98	49	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	# 1 Run# 2 Limits		its	
1868-53-7	Dibromofluoromethane	108%		60-1	30%	
2037-26-5	Toluene-D8	103%		60-1	30%	
460-00-4	4-Bromofluorobenzene	97%		60-1	30%	

⁽a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

Client Sample ID: FL-1

 Lab Sample ID:
 C15478-16
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	17.0	1.8	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

Instrument QC Batch: MA1820
 Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: 1S

Lab Sample ID: C15478-17 **Date Sampled:** 04/07/11 **Matrix:** SO - Soil **Date Received:** 04/08/11 Method: SW846 8260B Percent Solids: n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M23072.D	1	04/16/11	XB	n/a	n/a	VM737
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	15.0 ul

Purgeable Aromatics, MTBE

Run #2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND 1980 4780 23400 ND 212000	1700 1700 1700 3300 1700 33000	500 500 500 1300 330 17000	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2			
1868-53-7	Dibromofluoromethane	94%		60-1	30%	
2037-26-5	Toluene-D8	103%		60-1	30%	
460-00-4	4-Bromofluorobenzene	101%		60-1	30%	

(a) All results reported on wet weight basis.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 1

Report of Analysis

Client Sample ID: 1S

 Lab Sample ID:
 C15478-17
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	7.1	1.8	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

Instrument QC Batch: MA1820
 Prep QC Batch: MP3406

Page 1 of 1

Client Sample ID: 2S

 Lab Sample ID:
 C15478-18
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Method:
 SW846 8260B
 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch
Run #1	M23073.D	1	04/16/11	XB	n/a	n/a	VM737
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.17 g	5.0 ml	30.0 ul
Run #2			

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	Benzene Toluene Ethylbenzene Xylene (total) Methyl Tert Butyl Ether TPH-GRO (C6-C10)	ND ND 1420 2080 ND 98000	810 810 810 1600 810 16000	240 240 240 640 160 8100	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	93% 101% 97%		60-1 60-1 60-1	30%	

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value



Page 1 of 1

Client Sample ID: 2S

 Lab Sample ID:
 C15478-18
 Date Sampled:
 04/07/11

 Matrix:
 SO - Soil
 Date Received:
 04/08/11

 Percent Solids:
 n/a a

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	6.9	1.8	mg/kg	1	04/12/11	04/12/11 РН	SW846 6010B ¹	SW846 3050B ²

Instrument QC Batch: MA1820
 Prep QC Batch: MP3406



Misc. Forms	
Custody Documents and Other Forms	

Includes the following where applicable:

· Chain of Custody



OHAIN OF OHOTODY	poar Tof2)
CHAIN OF CUSTODY [FED-EX Trackling # Bottle Order	Control #
2105 Lundy Ave, San Jose, CA 95131 (408) 588-0200 FAX: (408) 588-0201 Accutest Quote # Accutest I	NC Job #: C
LABORATORIES JWCICAFO3210	C15478
Client / Reporting Information Project Information Requested Analy	
Signa West Consultants Project Name: FUM Auto Service	WW- Wastewater GW- Ground Water
Address	SW- Surface Water
Address 4227 Sunrise Blvd. Str. 220 Street City State 210 City State City Co. b. C.	SO- Soil
1 Fail (1/4/65) CM 93620 Quielano CM 1 TV 1 1 1 1	OI-OI WP-Wipe
Project Contact: Jeff Bensch Project #	LIQ - Non-aqueous Liquid
Phone 9/6-863-3220 EMAIL: J Bensch @ Sierra- West net	AlR
Samplers's Name 2 Client Purchase Order #	DW- Drinking Water (Perchlorate Only)
Sample ID Sample ID / Field Point / Point of Collection Date Time Sampled by Matrix bottles P P P P P P P P P	LAB USE ONLY
-1 2 A 4/6/11/330 BW 50 1 1 XXXX	1+x2x6597vel
-2 2 B 1335 1 1 1 1 1 1 1 1 1	1-2×61, mel
-3 A	
-4 1 B 1345	
-5 45W 1700 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-6 4A 1705	
-7 4B 1710	
-8 45E V 1715	
-9 3A 4/7/11/000	
-(0) 35W V 1005 V V V V V V V V	
Turnaround Time (Business days) Data Deliverable Information Comments / Rem Standard TAT 15 Business Days Approved By/ Date: Commercial "A" - Results only	narks 1
Standard TAT 15 Business Days Approved By/ Date: 10 Day (Workload dependent) COC #/ Commercial *A* - Results only COC #/	2
5 Day (Workload dependent) Commerical "B+" - Results, QC, and chromatograms	
3 Day (125% markup)	
1 Day (200% markup) Provide EDF Global ID	
Same Day (300% markup) Provide EDF Logcode: Emergency T/A data available VIA Lablink	
Sample Custody must be documented below each, time samples change possession, including courier delivery.	
Received By: Pallinguished by Sampler: Date Time: Received By:	" ekm/ 04/08/11
Relinquished by: Date Time: Received By: Relinquished By: Date Time: Received By:	
3 4 A A A A A A A A A A A A A A A A A A	On Ice V N Cooler Temp.
Relinquished by: Uate Time: Heceved By: Custody Seal # Appropriate Bottlet 2005 yr a needs pace 174 Dyp. Labels match Coc? Ty/ N Separate Receiving Check List	

C15478: Chain of Custody
Page 1 of 3



	CHAII	N OF CUS	STODY					page	2012
	2105 Lu	ndy Ave, San Jose, CA		FED-EX Tra	cking#		Bottle Order Control #	0	
ACCUTES	® (408) 58			Accutest Q	uote#		Accutest NC Job #	.c C154	78
LABORATOR									CI A Jan
Client / Reporting Information Company Name		t Information	-			H	equested Analysis		trix Codes WW- Wastewater
Sierra West Consultants	Project Name: Fly	11 Auto Sen	vice		1				W- Ground Water
Address 4227 Sunrise Bludy Ste. 220 City State	Street 1839 F	Foothill Blud	!					s	W- Surface Water SO- Soil
Fair Oaks, CA 95628	Dak land					ead			OI-Oil WP-Wipe
Jett Bensch					l.	19		uo	- Non-aqueous Liquid
Phone # 916 - 863 - 3220	EMAIL: TROS	ch@Sierra-L	<i>lestinet</i>		\bowtie				AIR
Samplers's Name Brian Whalen	Client Purchase Order #	J. (5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	10051 NO.	PH		-			W- Drinking Water
Accutest Stray Whaten	Collection	Number of	preserved Bottles	01	\vdash	\$		'	Perchlorate Only)
Sample			. 8 #	1	lpha ert <	10			AB USE ONLY
ID Sample ID / Field Point / Point of Collection Date		# of Batrix bottles 모 등 모	NONE NONE ENCO	<u>'</u> ,		30		+	——————————————————————————————————————
-11 35E 4/7/1	1950 BW 5	50 1		X	$\times \mid \times$			1 1 1	2x6 likel
-12 3B	955								
-13 DI-1	1125								
-14 FL-2	1130				ПП				
-15 DT-2	1135								
-16 FL-1	1140	1-11-1						111	
-14 15	1245	1			$\dagger \dagger \dagger$				
-18 25 V		V V		1/ ,	V V	\mathbf{V}			
	1250	* * 	 	V	"			1 1 1	
<u> </u>					-				
Turnaround Time (Business days)		Data Deliverable Information				15.253.83	Comments / Remarks		
Standard TAT 15 Business Days Approved By:/1		rcial "A" - Results only			<i>.</i> .)	27.00.00.00.00.00.00
10 Day (Workload dependent)		rclal "B" - Results with QC s		L	<u>(</u> ()	C #	1 0 0	۷	
5 Day (Workload dependent)		rical "B+" - Results, QC, and	chromatograms						
3 Day (125% markup)	EDF for	Level 4 data package Geotracker EDD F	Format	-					
1 Day (200% markup)	_	OF Global ID		_					
Same Day (300% markup)	Provide E	DF Logcode:		_					
Emergency T/A data available VIA Lablink							Four-time Systems are production as		
Sample Custody must be of Belinquished by Sampler: Date Time		time samples change po	Relinquished By:	ourier del f	ivery. Date Tir	ne:	Received By:	Α /	10.10-
1 Balloughted by: Date Time	10130 1/1/W	- Monthe 1	2/V/W///	levert.	Date Tir	8/11 17:10	2 Received By:	Am o	108/1
` '	novewed by:		4		54.9 12		4		
Refinquished by: Date Time	Received By:		Custody Seal #	Appropriate	Bottle / Pres.	Y/N Headsp	ace Y/N On Ice	₹7y , c∞	oler Temp.
F.				Labels mate	ch Coc? Y / N	Separate R	eceiving Check List used: Y /	" 4.140.5	24.661

C15478: Chain of Custody Page 2 of 3

e	R
C	7

Accutest Laboratories Northern Camornia Gample Rece	iving Check List	JOD#: CI	154-78	Initial: Im/EK
Review Chain of Custody Chain of Custody is to be comp	lete and legible.			•
Are these regulatory (NPDES) samples? CWA	(es) No	Client Sample ID	pH Check	
p/s pH requested?	Yes / No	Official Carriple ID	рп спеск	Other Comments/Issues
□ Was Client informed that hold time is 15 min? Yes / No Continue	Yes / No			
☐ Was ortho-Phosphate filtered with in 15 min? Yes / No Continue	Yes / No			
Are sample within hold time?	Yes)/ No			
Are sample in danger of exceeding hold-time	Yes / No)			
p/Existing Client? Yes / No Existing Project?	Yes No			
If No: Is Report to info complete and legible, including;				
□ deliverable □ Name □ Address □ phone □ e-mail				
Is Bill to Info complete and legible, including;				
□ PO# □ Credit card □ Contact □address □ phone □ e-mail				
Is Contact and/or Project Manager identified, including;				
□ phone □ e-mail				
□ Project name / number			~	
Special requirements?	Yes / No			
Sample IDs / date & time of collection provided?	Yes/No			
s Matrix listed and correct?	Yes) No			
Analyses listed, we do, or client has authorized a subcontract?	Xes) No			
Chain is signed and dated by both client and sample custodian?	Yes)/ No			
TAT requested available? Yes / No Approved by Pm				
O .				
Review Coolers:				
Were all Coolers temperatures measured at ≤6°C? 4.6°C	Yes / No			
y If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the left				
Are samples on Ice?	(feg / No			
Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)	_			
Z				
Shipment Received MethodAC				
Custody Seals: Present: Yes / No If Yes; Unbroken:	Yes / No			
Review of Sample Bottles: If you answer no, explain to the side	_			
Chain matches bottle labels? (es / No Sample bottle intact?	(res) No			
Is there enough sample volume in proper bottle for requested analyses?	(Yes)/ No			
□ Proper Preservatives? Yes / No				
Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes on left.				
Headspace-VOAs? Greater than 6mm in diameter	Yes / No			
List sample ID and affected container				

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

 $\label{label} \verb|\label{label} $$ \Accurrent_active_sop_oct_2010\\ \sc 0.01f1_0_form1_sample control_sample receiving checklist_2009-01-01.doc$

C15478: Chain of Custody Page 3 of 3





GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method: SW846 8260B

Page 1 of 1

Job Number: C15478

Method Blank Summary

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample VM733-MB	File ID M22895.D	DF 1	Analyzed 04/11/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM733

The QC reported here applies to the following samples:

C15478-5, C15478-6

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
108-88-3	Toluene	ND	5.0	1.5	ug/kg
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	60-130%
2037-26-5	Toluene-D8	103%	60-130%
460-00-4	4-Bromofluorobenzene	100%	60-130%



Method: SW846 8260B

Method Blank Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample VM733-MB2	File ID M22912.D	DF 1	Analyzed 04/11/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM733

The QC reported here applies to the following samples:

C15478-7, C15478-8

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
108-88-3	Toluene	ND	5.0	1.5	ug/kg
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg

CAS No.	Surrogate Recoveries	urrogate Recoveries			
	Dibromofluoromethane	101%	60-130%		
2037-26-5	Toluene-D8	102%	60-130%		
460-00-4	4-Bromofluorobenzene	99%	60-130%		



Method: SW846 8260B

Page 1 of 1

Job Number: C15478

Method Blank Summary

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample VM734-MB2	File ID M22958.D	DF	Analyzed 04/12/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM734

The QC reported here applies to the following samples:

C15478-1, C15478-2, C15478-3

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
108-88-3	Toluene	ND	5.0	1.5	ug/kg
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg

CAS No.	Surrogate Recoveries		Limits
	Dibromofluoromethane Toluene-D8	99% 101%	60-130% 60-130%
	4-Bromofluorobenzene	99%	60-130%



Job Number: C15478

Method Blank Summary

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample VM736-MB	File ID M23015.D	DF 1	Analyzed 04/14/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM736

The QC reported here applies to the following samples:

C15478-4, C15478-9

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2 100-41-4	Benzene Ethylbenzene	ND ND	5.0 5.0	1.5 1.5	ug/kg ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
108-88-3 1330-20-7	Toluene Xylene (total)	ND ND	5.0 10	1.5 4.0	ug/kg ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg

CAS No.	Surrogate Recoveries		Limits
	Dibromofluoromethane Toluene-D8	102% 100%	60-130% 60-130%
	4-Bromofluorobenzene	100%	60-130%



Method Blank Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample VM737-MB	File ID M23041.D	DF 1	Analyzed 04/15/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM737

The QC reported here applies to the following samples:

C15478-13

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
108-88-3	Toluene	ND	5.0	1.5	ug/kg
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg

CAS No.	Surrogate Recoveries		Limits
	Dibromofluoromethane Toluene-D8	99% 104%	60-130% 60-130%
460-00-4	4-Bromofluorobenzene	98%	60-130%



Method Blank Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM737-MB2	M23055.D	1	04/15/11	XB	n/a	n/a	VM737

The QC reported here applies to the following samples:

C15478-10, C15478-11, C15478-12, C15478-14, C15478-15, C15478-16, C15478-17, C15478-18

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
108-88-3	Toluene	ND	5.0	1.5	ug/kg
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg

CAS No.	Surrogate Recoveries		Limits	
1868-53-7	Dibromofluoromethane	101%	60-130%	
2037-26-5	Toluene-D8	104%	60-130%	
460-00-4	4-Bromofluorobenzene	98%	60-130%	



Method Blank Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample VM734-MB	File ID M22939.D	DF 1	Analyzed 04/12/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM734

The QC reported here applies to the following samples:

VM734-BSD, VM734-BS1

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2	Benzene	ND	5.0	1.5	ug/kg
100-41-4	Ethylbenzene	ND	5.0	1.5	ug/kg
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg
108-88-3	Toluene	ND	5.0	1.5	ug/kg
1330-20-7	Xylene (total)	ND	10	4.0	ug/kg
	TPH-GRO (C6-C10)	ND	100	50	ug/kg

CAS No.	Surrogate Recoveries		Limits
	Dibromofluoromethane Toluene-D8	103% 100%	60-130% 60-130%
460-00-4	4-Bromofluorobenzene	98%	60-130%



Blank Spike Summary Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample VM733-BS1	File ID M22898.D	DF 1	Analyzed 04/11/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM733	

The QC reported here applies to the following samples:

C15478-5, C15478-6, C15478-7, C15478-8

CAS No.	Compound	Spike ug/kg	BSP BSP ug/kg %		Limits
	TPH-GRO (C6-C10)	250	243	97	60-130
CAS No.	Surrogate Recoveries	BSP	Lim	iits	
1868-53-7	Dibromofluoromethane	101%	60.1	30%	
1000 00 ,					
2037-26-5	Toluene-D8	103%	60-1	130%	
460-00-4	4-Bromofluorobenzene	100%	60-1	30%	



Blank Spike Summary Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

SampleFile IDDFAnalyzedByPrep DatePrep BatchAnalytical BaVM734-BS1M22942.D104/12/11XBn/an/aVM734	tch
--	-----

The QC reported here applies to the following samples:

C15478-1, C15478-2, C15478-3

CAS No.	No. Compound		BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	250	260	104	60-130
CAS No.	Surrogate Recoveries	BSP	Lim	its	
1868-53-7	Dibromofluoromethane	101%	60-1	30%	
2037-26-5	Toluene-D8	100%		30%	
460-00-4	4-Bromofluorobenzene	100%		30%	



Blank Spike Summary Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA **Project:**

Sample VM736-BS1	File ID M23018.D	DF 1	Analyzed 04/14/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM736	

The QC reported here applies to the following samples:

C15478-4, C15478-9

CAS No. Compound		Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	250	247	99	60-130
CAS No.	Surrogate Recoveries	BSP	Lim	its	
1868-53-7	Dibromofluoromethane	103%	60-1	30%	
2037-26-5	Toluene-D8	98%	60-1	30%	
460-00-4	4-Bromofluorobenzene	100%	60-1	30%	



Blank Spike Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA Project:

Sample VM737-BS1	File ID M23044.D	DF 1	Analyzed 04/15/11	By XB	Prep Date n/a	Prep Batch n/a	Analytical Batch VM737

The QC reported here applies to the following samples:

C15478-10, C15478-11, C15478-12, C15478-13, C15478-14, C15478-15, C15478-16, C15478-17, C15478-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	250	256	102	60-130
CAS No.	Surrogate Recoveries	BSP	Lim	its	
1868-53-7	Dibromofluoromethane	96%	60-1	2004	
1000-33-7	Dibionionuolomemane	9070	00-1	3070	
2037-26-5	Toluene-D8	103%	60-1	/ -	



Blank Spike/Blank Spike Duplicate Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample VM733-BS	File ID M22896.D	DF	Analyzed 04/11/11	By XB	Prep Date	Prep Batch	Analytical Batch VM733
VM733-BSD	M22896.D M22897.D	1	04/11/11	XB	n/a n/a	n/a n/a	VM733 VM733

The QC reported here applies to the following samples:

C15478-5, C15478-6, C15478-7, C15478-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	43.4	109	42.6	107	2	60-130/30
100-41-4	Ethylbenzene	40	41.0	103	40.5	101	1	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	45.6	114	44.9	112	2	60-130/30
108-88-3	Toluene	40	40.7	102	40.3	101	1	60-130/30
1330-20-7	Xylene (total)	120	121	101	119	99	2	60-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	106%	60-130%
2037-26-5	Toluene-D8	95%	95%	60-130%
460-00-4	4-Bromofluorobenzene	97%	99%	60-130%



Page 1 of 1

Method: SW846 8260B

Blank Spike/Blank Spike Duplicate Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
VM734-BS	M22940.D	1	04/12/11	XB	n/a	n/a	VM734
VM734-BSD	M22941.D	1	04/12/11	XB	n/a	n/a	VM734

The QC reported here applies to the following samples:

C15478-1, C15478-2, C15478-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	43.2	108	40.9	102	5	60-130/30
100-41-4	Ethylbenzene	40	41.3	103	39.0	98	6	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	43.8	110	41.8	105	5	60-130/30
108-88-3	Toluene	40	40.8	102	38.7	97	5	60-130/30
1330-20-7	Xylene (total)	120	121	101	114	95	6	60-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	Dibromofluoromethane	103%	104%	60-130%
2037-26-5	Toluene-D8	95%	96%	60-130%
460-00-4	4-Bromofluorobenzene	100%	99%	60-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

The QC reported here applies to the following samples:

C15478-4, C15478-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	41.7	104	41.4	104	1	60-130/30
100-41-4	Ethylbenzene	40	39.9	100	38.7	97	3	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	43.8	110	42.2	106	4	60-130/30
108-88-3	Toluene	40	39.7	99	37.8	95	5	60-130/30
1330-20-7	Xylene (total)	120	119	99	113	94	5	60-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	104%	106%	60-130%
2037-26-5	Toluene-D8	97%	94%	60-130%
460-00-4	4-Bromofluorobenzene	103%	99%	60-130%



Blank Spike/Blank Spike Duplicate Summary

Job Number: C15478

SWCICAFO Sierra West Consultants, Inc. Account:

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
VM737-BS	M23042.D	1	04/15/11	XB	n/a	n/a	VM737
VM737-BSD	M23043.D	1	04/15/11	XB	n/a	n/a	VM737

The QC reported here applies to the following samples:

C15478-10, C15478-11, C15478-12, C15478-13, C15478-14, C15478-15, C15478-16, C15478-17, C15478-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	40	38.2	96	39.6	99	4	60-130/30
100-41-4	Ethylbenzene	40	39.9	100	39.2	98	2	60-130/30
1634-04-4	Methyl Tert Butyl Ether	40	38.0	95	38.0	95	0	60-130/30
108-88-3	Toluene	40	39.7	99	38.7	97	3	60-130/30
1330-20-7	Xylene (total)	120	118	98	115	96	3	60-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	98%	60-130%
2037-26-5	Toluene-D8	101%	98%	60-130%
460-00-4	4-Bromofluorobenzene	101%	97%	60-130%



4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C15499-5MS	M22918.D	1	04/11/11	XB	n/a	n/a	VM733
C15499-5MSD	M22919.D	1	04/11/11	XB	n/a	n/a	VM733
C15499-5	M22917.D	1	04/11/11	XB	n/a	n/a	VM733

The QC reported here applies to the following samples:

C15478-5, C15478-6, C15478-7, C15478-8

CAS No.	Compound	C15499-5 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4 108-88-3	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene	ND ND ND ND	39.7 39.7 39.7 39.7	43.2 39.7 52.7 39.5	109 100 133* ^a 100	42.0 40.3 50.1 40.4	106 101 126 102	3 1 5 2	60-130/30 60-130/30 60-130/30 60-130/30
1330-20-7 CAS No.	Xylene (total) Surrogate Recoveries	MS	119 MSD	118 C15	99 5 499-5	120 Limits	101	2	60-130/30
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	111% 96% 100%	110% 98% 104%	110 102 100	%	60-130% 60-130% 60-130%			

⁽a) Outside laboratory control limits.



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C15462-1MS	M22960.D	1	04/12/11	XB	n/a	n/a	VM734
C15462-1MSD	M22961.D	1	04/12/11	XB	n/a	n/a	VM734
C15462-1	M22943.D	1	04/12/11	XB	n/a	n/a	VM734

The QC reported here applies to the following samples:

C15478-1, C15478-2, C15478-3

CAS No.	Compound	C15462-1 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4 108-88-3 1330-20-7	Benzene Ethylbenzene Methyl Tert Butyl Ether Toluene Xylene (total)	ND ND ND ND ND	39.8 39.8 39.8 39.8 120	45.9 42.6 51.5 42.9 128	115 107 129 108 107	42.3 39.4 49.3 39.6 118	106 99 124 100 99	8 8 4 8 8	60-130/30 60-130/30 60-130/30 60-130/30 60-130/30
CAS No.	Surrogate Recoveries	MS	MSD	SD C15462-1		Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	109% 96% 100%	110% 96% 101%	103 101 100	%	60-1309 60-1309 60-1309	ó		



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
C15545-1MS	M23035.D	1	04/14/11	XB	n/a	n/a	VM736
C15545-1MSD	M23036.D	1	04/14/11	XB	n/a	n/a	VM736
C15545-1	M23026.D	1	04/14/11	XB	n/a	n/a	VM736

The QC reported here applies to the following samples:

C15478-4, C15478-9

CAS No.	Compound	C15545-1 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	39.8	43.0	108	42.0	106	2	60-130/30
100-41-4	Ethylbenzene	ND	39.8	40.3	101	37.4	95	7	60-130/30
1634-04-4	Methyl Tert Butyl Ether	ND	39.8	50.1	126	49.5	125	1	60-130/30
108-88-3	Toluene	ND	39.8	40.6	102	37.6	95	8	60-130/30
1330-20-7	Xylene (total)	ND	119	122	102	112	95	9	60-130/30
CAS No.	Surrogate Recoveries	MS	MSD	C15	5545-1	Limits			
1868-53-7	Dibromofluoromethane	106%	108%	105	5%	60-1309	6		
2037-26-5	Toluene-D8	95%	92%	99%	6	60-1309	6		
460-00-4	4-Bromofluorobenzene	104%	99%	101	%	60-1309	6		



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C15478

Account: SWCICAFO Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C15478-13MS	M23059.D	1	04/15/11	XB	n/a	n/a	VM737
C15478-13MSD	M23060.D	1	04/15/11	XB	n/a	n/a	VM737
C15478-13	M23051.D	1	04/15/11	XB	n/a	n/a	VM737

The QC reported here applies to the following samples:

C15478-10, C15478-11, C15478-12, C15478-13, C15478-14, C15478-15, C15478-16, C15478-17, C15478-18

CAS No.	Compound	C15478-13 ug/kg Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 1634-04-4 108-88-3	Benzene Ethylbenzene Methyl Tert Butyl Ether	ND ND ND	39.4 39.4 39.4 39.4	39.8 37.8 46.2 37.7	101 96 117 96	40.1 37.1 46.2 37.4	101 93 116	1 2 0	60-130/30 60-130/30 60-130/30 60-130/30
1330-20-7	Toluene Xylene (total)	ND ND	39.4 118	111	96 94	110	94 92	1	60-130/30
CAS No.	Surrogate Recoveries	MS	MSD	C1:	5478-13	Limits			
1868-53-7 2037-26-5 460-00-4	Dibromofluoromethane Toluene-D8 4-Bromofluorobenzene	108% 97% 100%	106% 95% 97%	107 103 99%	3%	60-130% 60-130% 60-130%	ó		





Metals Analysis

QC Data Summaries

Includes the following where applicable:

- · Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: C15478

Account: SWCICAFO - Sierra West Consultants, Inc.
Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3406 Methods: SW846 6010B Matrix Type: SOLID Units: mg/kg

Prep Date:

04/12/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	20	2	1.3		
Antimony	2.0	.98	1.2		
Arsenic	2.0	.78	.76		
Barium	1.0	.03	.05		
Beryllium	1.0	.01	.02		
Boron	10	.73	1		
Cadmium	1.0	.06	.07		
Calcium	300	1.5	6.9		
Chromium	1.0	.07	.06		
Cobalt	1.0	.07	.08		
Copper	1.0	.06	.51		
Iron	10	. 25	.36		
Lead	2.0	. 4	.54	0.080	<2.0
Lithium	1.0	.12	.22		
Magnesium	200	1.1	2.3		
Manganese	1.0	.01	.04		
Molybdenum	1.0	.12	.24		
Nickel	1.0	.1	.18		
Potassium	200	3	6.2		
Selenium	2.0	1.2	1.5		
Silicon	20	.76	7		
Silver	1.0	. 05	.13		
Sodium	300	.79	3		
Strontium	1.0	.02	.04		
Thallium	2.0	.85	.74		
Tin	50	. 27	2		
Titanium	1.0	.02	.15		
Vanadium	1.0	.05	.06		
Zinc	2.0	.04	.24		

Associated samples MP3406: C15478-1, C15478-2, C15478-3, C15478-4, C15478-5, C15478-6, C15478-7, C15478-8, C15478-9, C15478-10, C15478-11, C15478-12, C15478-13, C15478-14, C15478-15, C15478-16, C15478-17, C15478-18

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15478 Account: SWCICAFO - Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3406 Methods: SW846 6010B Matrix Type: SOLID Units: mg/kg

Prep Date: 04/12/11

Metal	C15478-2 Original M	MS	Spikelot MPIR4A	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead	12.0	49.7	47.6	79.2	75–125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc	anr				

Associated samples MP3406: C15478-1, C15478-2, C15478-3, C15478-4, C15478-5, C15478-6, C15478-7, C15478-8, C15478-9, C15478-10, C15478-11, C15478-12, C15478-13, C15478-14, C15478-15, C15478-16, C15478-17, C15478-18

Results < IDL are shown as zero for calculation purposes

- (*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C15478 Account: SWCICAFO - Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3406 Methods: SW846 6010B Matrix Type: SOLID Units: mg/kg

Prep Date:

04/12/11

Metal	C15478-2 Original MSD	Spikelot MPIR4A % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	12.0 53.4	48.5 85.3	7.2	20
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP3406: C15478-1, C15478-2, C15478-3, C15478-4, C15478-5, C15478-6, C15478-7, C15478-8, C15478-9, C15478-10, C15478-11, C15478-12, C15478-13, C15478-14, C15478-15, C15478-16, C15478-17, C15478-18

 ${\tt Results} \, < \, {\tt IDL} \, \, {\tt are } \, \, {\tt shown} \, \, {\tt as} \, \, {\tt zero} \, \, {\tt for} \, \, {\tt calculation} \, \, {\tt purposes} \, \,$

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C15478 Account: SWCICAFO - Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3406 Methods: SW846 6010B Matrix Type: SOLID Units: mg/kg

Prep Date: 04/12/11

Metal	BSP Result	Spikelot MPIR4A	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	45.7	50	91.4	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			
Aggagiated ga	mmles MD2	406. G1E45	0 1 G1E	170 2 G1E470 2 G1E470 4 G1E470 E G1E470 6 G1E470 7 G1E470

Associated samples MP3406: C15478-1, C15478-2, C15478-3, C15478-4, C15478-5, C15478-6, C15478-7, C15478-8, C15478-9, C15478-10, C15478-11, C15478-12, C15478-13, C15478-14, C15478-15, C15478-16, C15478-17, C15478-18

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: C15478 Account: SWCICAFO - Sierra West Consultants, Inc.

Project: F&M Auto Service UST Site - 1839 Foothill Blvd,Oakland,CA

QC Batch ID: MP3406 Methods: SW846 6010B Matrix Type: SOLID Units: ug/l

Prep Date: 04/12/11

Metal	C15478-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	127	143	12.8 (a)	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP3406: C15478-1, C15478-2, C15478-3, C15478-4, C15478-5, C15478-6, C15478-7, C15478-8, C15478-9, C15478-10, C15478-11, C15478-12, C15478-13, C15478-14, C15478-15, C15478-16, C15478-17, C15478-18

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

71 of 71
ACCUTEST
C15478
LABORATORIES