

P&D ENVIRONMENTAL, INC.**55 Santa Clara Avenue, Suite 240****Oakland, CA 94610****(510) 658-6916**

December 21, 2012

Report 0553.R2

Mr. Benny Kwong

EAH Housing

2169 East Francisco Blvd, Suite EAH

San Rafael, CA 94901

SUBJECT: UST REMOVAL REPORT
Cathedral Gardens
2100 Martin Luther King Jr. Way, and
616-634 21st Street, and
635 22nd Street
Oakland, CA

Dear Mr. Kwong:

P&D Environmental, Inc. (P&D) has prepared this report documenting the removal of one 425-gallon capacity underground storage tank (UST) from the subject site. The UST was discovered during excavation for construction of an underground parking structure. At the time of discovery, the UST was determined to be filled with oily water and petroleum hydrocarbon liquid. Based on the type of petroleum hydrocarbons detected in and beneath the UST, the UST formerly contained diesel-and bunker oil-range fuel. The fluid was removed from the UST on September 14, 2012 and the UST was removed from the site on September 20, 2012. A Site Location Map (Figure 1), a Site Plan Aerial Photograph showing the approximate location of the UST (Figure 2), and a Site Plan Detail (Figure 3) showing the location of the UST and sample collection locations are attached with this report. All sample collection was performed under the supervision of a professional geologist.

BACKGROUND

Review of a Limited Phase II Environmental Site Assessment report dated June 27, 2011 prepared by Basics Environmental, Inc. of Oakland, California identified the historical use of the property as a church and school beginning in 1880 with demolition of a cathedral in 1993. Since 1993 a small portable building was present on the site.

The land is presently being developed with an underground parking structure. During excavation for the underground parking structure an UST filled with petroleum hydrocarbon liquid was discovered at a depth of approximately 3 feet below the pre-construction ground surface elevation. The fluid in the UST was subsequently determined to be oily water with diesel-and bunker oil-range fuel. No pipes were observed to be connected to the UST.

FIELD ACTIVITIES

Immediately following discovery of the UST, notification was provided to Inspector Keith Matthews of the City of Oakland Fire Department HAZMAT Division. Prior to removal of the UST, an UST removal permit was obtained from the City of Oakland Fire Department HAZMAT Division.

UST Fluid Removal

On September 14, 2012 approximately 420 gallons of fluid consisting primarily of oily water was pumped from the UST by Icon Environmental Services, Inc. (Icon) of Union City, California in preparation for UST removal. The fluid was hauled from the site as a non-RCRA hazardous waste liquid by Icon to the DK Dixon facility in Solano County, California using uniform hazardous waste manifest # 007270482 JJK. Icon is a State-certified hazardous waste hauler.

A copy of uniform hazardous waste manifest #007270482 JJK dated September 14, 2012 for removal of liquid from the UST prior to UST removal was mailed to the Department of Toxic Substances Control (DTSC) on October 1, 2012. A copy of the manifest is attached with this report in Appendix A.

Approximately 10 gallons of liquid in the tank was subsequently transferred to a 55-gallon drum on September 20, 2012 immediately prior to UST removal. The 55-gallon drum was removed from the site by Icon on September 21, 2012 as a non-RCRA hazardous waste liquid using uniform hazardous waste manifest # 007270485 JJK to the Crosby and Overton facility in Long Beach, California.

A copy of uniform hazardous waste manifest #007270485 JJK dated September 21, 2012 for removal of liquid from the immediately prior to removal was mailed to the DTSC on October 1, 2012. A copy of the manifest is attached with this report in Appendix A.

UST Removal and Soil Sample Collection

On September 20, 2012 the soil surrounding the UST was excavated and the UST was removed from the UST pit by IMX, Inc. of Oakland, California (IMX). The top of the UST was at a depth of approximately 3 feet below the ground surface, and the bottom of the UST was at a depth of approximately 6 feet below the ground surface. The soil excavated from around the UST was discolored blue-gray and exhibited a strong petroleum odor, and was stockpiled on a sheet of visqueen and was covered at the end of the day pending removal of the soil from the site. An LEL/oxygen meter was used to evaluate the UST atmosphere, and the meter readings showed 0% LEL and 12.8% oxygen. Prior to removal of the UST from the pit, the UST atmosphere was not inerted using dry ice based on the low volatility of the liquids in the UST and the large holes in the top of the UST that were created at the time that the UST was discovered. Inspector Keith Matthews from the City of Oakland Fire Department HAZMAT Division was onsite and approved removal of the UST from the UST pit.

Following removal of the UST from the pit, the UST was visually inspected. The UST was measured to be 3 feet in diameter and 8 feet in length with a calculated volume of approximately

425 gallons. The UST was constructed of single wall bare steel with riveted seams. The exterior of the UST was observed to be rusted, with rust scaling and holes from corrosion observed at an elevation midway between the top and the bottom of the UST. Multiple corrosion holes measuring approximately one half inch in diameter were observed at the top of the UST and several corrosion holes were observed in the bottom of the UST.

Following removal of the UST from the UST pit, soil was excavated from the bottom of the UST pit to a depth of approximately 8 feet below the ground surface and stockpiled with soil that had been removed from around the UST at the time of UST removal. The soil consisted of silty clay. One soil sample designated as T1 was collected directly from the pit bottom by driving a 2-inch diameter, 6-inch long stainless steel tube into the bottom of the pit in the center of the pit at a depth of approximately 8 feet below the ground surface.

No odor was detected in the sampled soil. The tube was filled entirely to ensure that no head space was present in the tube. The ends of the tube were then sequentially covered with aluminum foil and plastic end caps, and the tube was then labeled and stored in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

The same procedures were used for collection of four soil samples into stainless steel tubes for collection of composite soil sample UST COMP A characterization of the soil stockpile. The sample collection locations are shown in Figure 3. Inspector Keith Matthews was on site to observe excavation of the bottom of the UST pit and collection of the confirmation soil sample from the bottom of the UST pit. A copy of the Oakland Fire Department Underground Storage Tank Closure/Removal Field Inspection Report dated September 20, 2012 is attached with this report as Appendix B.

Photographs showing the UST following removal of the soil from around the UST, the UST following removal of the UST from the UST pit, and the UST pit following excavation to a depth of approximately 8 feet below the ground surface are attached with this report as Appendix C.

The area surrounding the UST pit was subsequently excavated for construction of an underground parking structure.

UST Transportation and Destruction

Following removal of the UST from the UST pit, the UST was loaded onto an Ecology Control Industries (ECI) truck and transported with uniform hazardous waste manifest # 007270483 JJK to the ECI facility in Richmond, California. ECI is a State-certified hazardous waste hauler, and the ECI Richmond facility is a State-certified Transport, Storage and Disposal Facility. The UST was subsequently destroyed at the ECI facility. A copy of the uniform hazardous waste manifest for transportation of the UST is attached with this report in Appendix A and a copy of the certificate of UST destruction is attached with this report as Appendix D.

A copy of uniform hazardous waste manifest #007270483 JJK dated September 20, 2012 for transportation of the UST was mailed to the DTSC on October 1, 2012.

Soil Disposal

On September 25, 2012 the soil stockpile associated with the UST removal was removed from the site. A total of 53.94 tons of soil was transported from the site as non-hazardous waste to the Potrero Hills Landfill in Suisun City, California. No manifests were used for the transportation of the soil. Copies of the three WeighMaster Certificates documenting the weight of the soil are attached to this report as Appendix E

LABORATORY ANALYSIS

The soil sample collected from the bottom of the UST pit (sample T1) and the stockpile composite soil sample (sample UST COMP A) were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G), Kerosene (TPH-K), Diesel (TPH-D), Bunker Oil (TPH-BO) and Motor Oil (TPH-MO) using EPA Method 3550C in conjunction with modified EPA Method 8015C. In addition, the UST pit bottom sample designated as T1 was also analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B in conjunction with EPA Method 8015B.

The laboratory analytical results of the tank pit bottom sample shows that TPH-G, TPH-MO and BTEX were not detected in the sample, and that TPH-K, TPH-D and TPH-BO were detected at concentrations of 16, 18, 21 milligrams per kilogram (mg/kg), respectively.

The laboratory analytical results of the composite stockpile sample show that TPH-G, TPH-K, TPH-D, TPH-BO and TPH-MO were detected at concentrations of 630, 1900, 2000, 2100 and 310 mg/kg, respectively.

The tank pit sample results are summarized in Table 1, and the soil stockpile sample results are summarized in Table 2. Copies of the laboratory reports and chain of custody documentation are attached with this report as Appendix F.

DISCUSSION AND RECOMMENDATIONS

None of the detected petroleum hydrocarbon concentrations in the bottom of the UST pit exceed their respective May 2008 San Francisco Bay Regional Water Quality Control Board May 2008 Table A Environmental Screening Levels. Based on the sample results, P&D recommends that no further action be performed and that the Fire Department case be closed.

DISTRIBUTION

A copy of this report should be sent to Mr. Keith Matthews at the City of Oakland Fire Department HAZMAT Division.

LIMITATIONS

This report was prepared solely for the use of EAH Housing. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

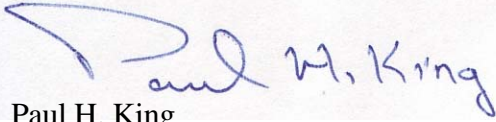
This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

December 21, 2012
Report 0553.R2

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



Paul H. King
Professional Geologist #5901
Expires: 12/31/13



Attachments:

Table 1 - Summary of UST Pit Soil Sample Laboratory Analytical Results

Table 2 - Summary of Soil Stockpile Sample Laboratory Analytical Results

Figure 1 - Site Location Map

Figure 2 - Site Plan Aerial Photograph Showing Approximate UST Location

Figure 3 - Site Plan Detail Showing UST

Appendix A - Uniform Hazardous Waste Manifests

Appendix B - City of Oakland Fire Department Underground Storage Tank Closure/Removal Field Inspection Report dated September 20, 2012

Appendix C - Photographs

Appendix D - Certificate of Tank Destruction

Appendix E - WeighMaster Certificates

Appendix F - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

TABLE 1
SUMMARY OF PIT BOTTOM SOIL SAMPLE LABORATORY ANALYTICAL RESULTS

<u>Sample ID</u>	<u>Sample Date</u>	<u>TPH-G</u>	<u>TPH-K</u>	<u>TPH-D</u>	<u>TPH-BO</u>	<u>TPH-MO</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Total Xylenes</u>
T1	9/20/2012	ND<1.0	16	18	21	ND<5.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005
NOTES										
TPH-G = Total Petroleum Hydrocarbons as Gasoline.										
TPH-K = Total Petroleum Hydrocarbons as Kerosene.										
TPH-D = Total Petroleum Hydrocarbons as Diesel.										
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.										
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.										
ND = Not Detected.										
All results reported in milligrams per kilogram (mg/kg) unless otherwise noted.										

TABLE 2
SUMMARY OF SOIL STOCKPILE SAMPLE LABORATORY ANALYTICAL RESULTS

<u>Sample ID</u>	<u>Sample Date</u>	<u>TPH-G</u>	<u>TPH-K</u>	<u>TPH-D</u>	<u>TPH-BO</u>	<u>TPH-MO</u>
UST Comp A	9/20/2012	630	1900	2000	2100	310
<u>NOTES</u>						
TPH-G = Total Petroleum Hydrocarbons as Gasoline.						
TPH-K = Total Petroleum Hydrocarbons as Kerosene.						
TPH-D = Total Petroleum Hydrocarbons as Diesel.						
TPH-BO = Total Petroleum Hydrocarbons as Bunker Oil.						
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.						
ND = Not Detected.						
All results reported in milligrams per kilogram (mg/kg) unless otherwise noted.						

FIGURES

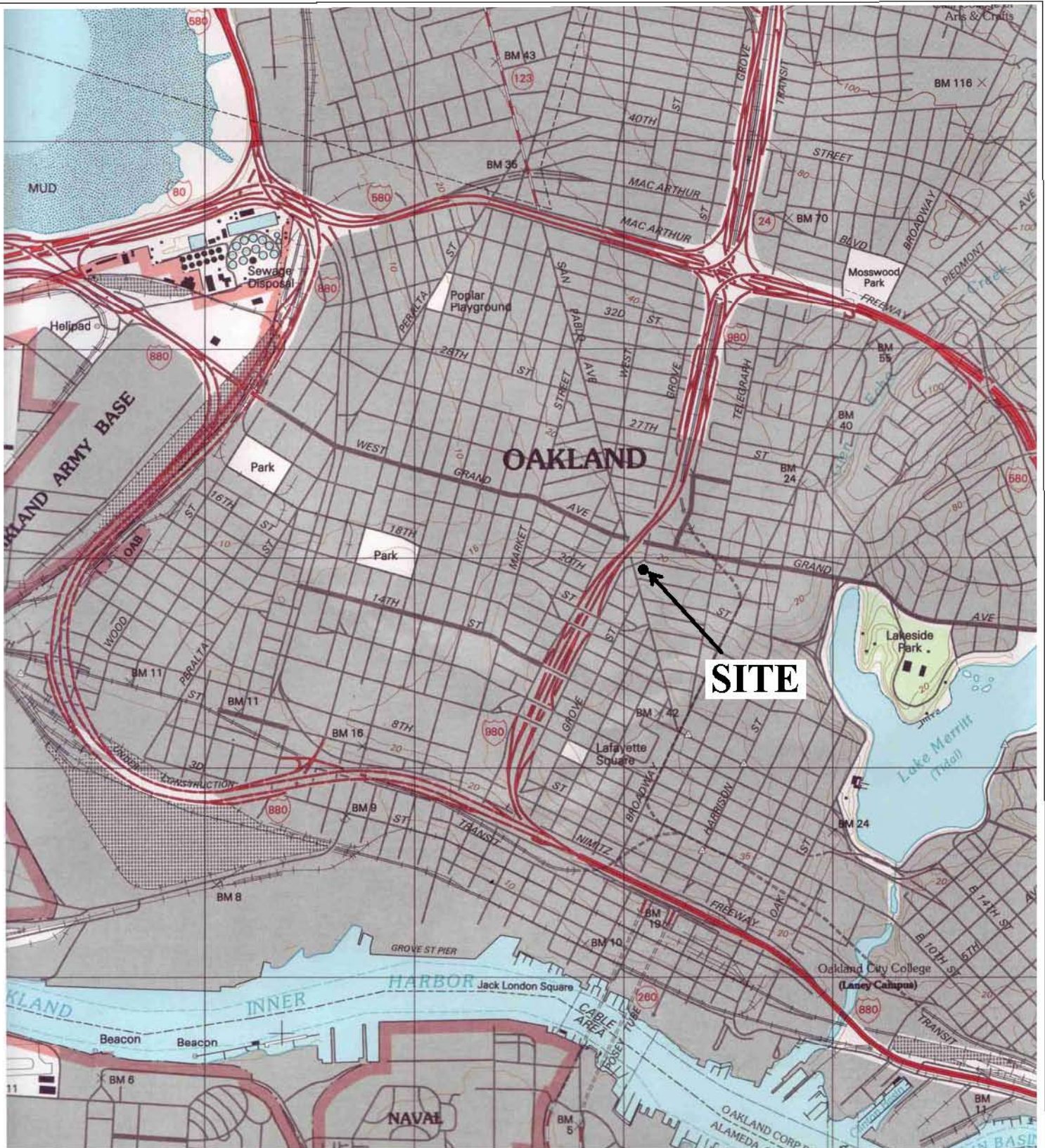


Figure 1
 Site Location Map
 2100 Martin Luther King Jr. Way
 616-634 21st Street and 635 22nd Way
 Oakland, California

Base Map From:
 U. S. Geological Survey
 Oakland West, California
 7.5-Minute Quadrangle
 Photorevised 1993

P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610

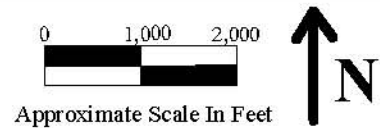
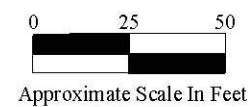


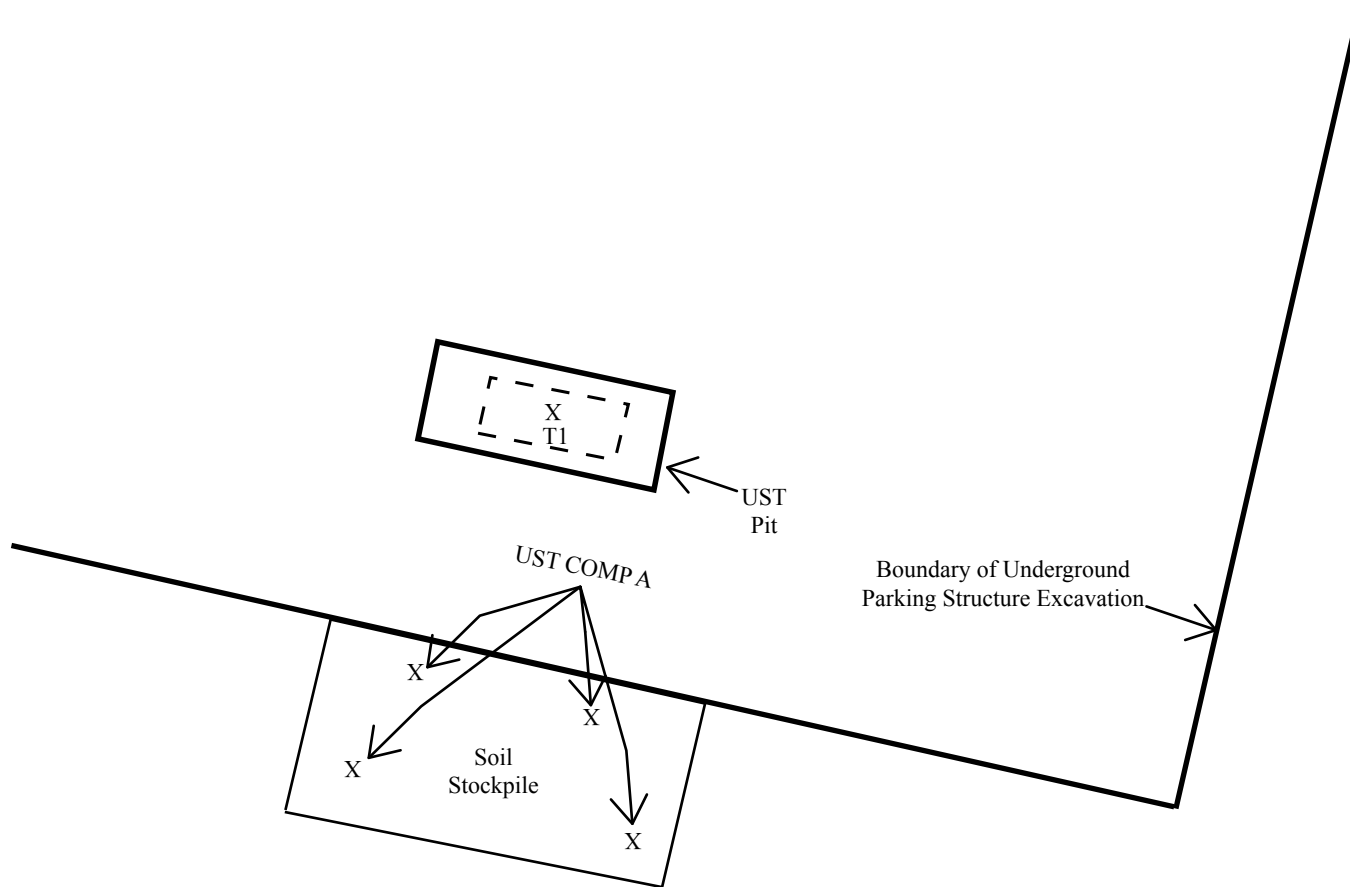


Figure 2
 Site Plan Aerial Photograph Showing Approximate UST Location
 2100 Martin Luther King Jr. Way
 616-634 21st Street and 635 22nd Street
 Oakland, California

Base Map From:
 Basics Environmental, Limited Phase II
 Environmental Site Sampling Report,
 dated June 27, 2011

P&D Environmental, Inc.
 55 Santa Clara Avenue
 Oakland, CA 94610





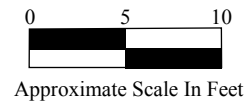
LEGEND

X Soil Sample Collection Location

Figure 3
 Site Plan Detail Showing UST
 2100 Martin Luther King Jr. Way
 616-634 21st Street and 635 22nd Street
 Oakland, California

Base Map From:

P&D Environmental, Inc.
 55 Santa Clara Avenue
 Oakland, CA 94610

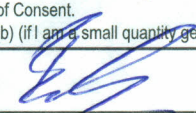

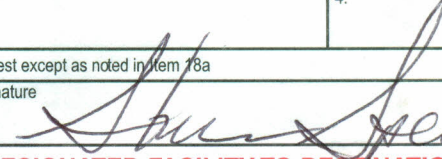


APPENDIX A

Uniform Hazardous Waste Manifest

- **Manifest Number 007270482 JJK: For Liquid Pumped From UST**
- **Manifest Number 007270483 JJK: For Empty UST**
- **Manifest Number 007270485 JJK: For Oily Debris**

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAC 002 701 506	2. Page 1 of 1	3. Emergency Response Phone 510-476-1740	4. Manifest Tracking Number 007270482 JJK		
5. Generator's Name and Mailing Address Cathedral Garden Oakland LP in Care CLEAN Inc 7169 Franklin Blvd E Ste B San Rafael CA 94903 5531 Generator's Phone: 415 295-8857			Generator's Site Address (if different than mailing address) 638 21st St Oakland CA 94612				
6. Transporter 1 Company Name KCM Environmental Services Inc.			U.S. EPA ID Number CAL 000 592 580				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address 7301 Clayton Way Livermore, CA 94550 Facility's Phone: 707-453-6508			U.S. EPA ID Number CAL 000 012 602				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	Flam LI (UN Hazardous Waste Liquid) (Oil & Water)	001	TF	2700 2700	6 G	305	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information Wear PPE, RSC 152, Emergency Contact: Charles Sator 510-476-1740							
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 attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Benny Kwong			Signature 		Month Day Year 9 14 17		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Mike Brown Sr			Signature 		Month Day Year 9 14 17		
Transporter 2 Printed/Typed Name			Signature		Month Day Year		
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator)			U.S. EPA ID Number				
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H111		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mascena			Signature 		Month Day Year 9 17 17		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAC 002 701 506	2. Page 1 of 1	3. Emergency Response Phone 800 424 9300	4. Manifest Tracking Number 007270483 JJK	
5. Generator's Name and Mailing Address Cathedral Garden Oakland LP In Care Of EAH Inc 2169 Francisco Blvd E Ste B San Rafael CA 94901 5531			Generator's Site Address (if different than mailing address) 638 21st St Oakland Ca 94612			
Generator's Phone: 415 295-8857						
6. Transporter 1 Company Name ECOLOGY CONTROL INDUSTRIES				U.S. EPA ID Number CAD982030173		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address Ecology Control Industries 255 Parr Blvd. Richmond, CA 94801				U.S. EPA ID Number CAD009466392		
Facility's Phone: 501-235-1393						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
1.	NON-RCRA Hazardous waste solid (Empty storage tank)	001	TP	500	P	512
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information ECI Job # 52T4399 Tank # 34373 wear proper PPE when handling // weights & volumes are approximate						
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 attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name BENNY KWONG				Signature 		Month Day Year 9 20 12
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Bill Maaske				Signature 		Month Day Year 9 20 12
Transporter 2 Printed/Typed Name				Signature		Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____						
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	H129	2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a						
Printed/Typed Name Shon Spence				Signature 		Month Day Year 9 20 12

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAC 002 701 506	2. Page 1 of 1	3. Emergency Response Phone	4. Manifest Tracking Number 007270435 JJK	
5. Generator's Name and Mailing Address Central Garden Oakland LP by Care Of EAH Inc 7169 Francisco Blvd E Ste B San Rafael CA 94901 5531			Generator's Site Address (if different than mailing address) 638 21st St Oakland Ca 94617			
Generator's Phone: 415 295-8857						
6. Transporter 1 Company Name TEON ENVIRONMENTAL INC				U.S. EPA ID Number CAL 050362980		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address TECHNICAL DEPARTMENT 1625 W. 17th St LONG BEACH CA 90812				U.S. EPA ID Number CAD020409019		
Facility's Phone: 562 432-5445						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
	1. NON HAZARDOUS LIQUID WASTE (LIQUID)	1	DM	10	6	
	2. NON HAZARDOUS WASTE SOLID (SOLID DEBRIS)	1	SM	10	6	22
	3.					
	4.					
14. Special Handling Instructions and Additional Information WEAR MASK, GLOVES, PROTECTIVE CLOTHING CHARACTERIZATION S12.476 DM						
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 attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name BENNY KNOWS			Signature 		Month Day Year 9 24 12	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name EVYAN VILLANUEVA			Signature 		Month Day Year 9 21 12	
Transporter 2-Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____						
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a						
Printed/Typed Name			Signature		Month Day Year	

APPENDIX B

Oakland Fire Department Underground Storage Tank Closure/Removal Field Inspection Report

OAKLAND FIRE DEPARTMENT, OES
UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT

1510) 387 1700

Site Address: <u>1230 71st St.</u>	Name of Facility: <u>Cathedral Gardens</u>
Inspector: <u>Keith Matthews</u>	Contact on site: <u>Helen Dawson</u>
Date and Time of Arrival: <u>11:05 20 Sept 12</u>	Contractor/Consultant: <u>P&D Environ</u>

General Requirements	Yes	No	N/A
Approved closure plan on site.	X		
Changes to approved plan noted.	X		
Residuals properly stored/transported	X		
Receipt for adequate dry ice noted	X		

General Requirements	Yes	No	N/A
Site Safety Plan properly signed.	X		
40B:C fire extinguisher on site.	X		
"No Smoking" signs posted.	X		
Gas detector challenged by inspector.	X		

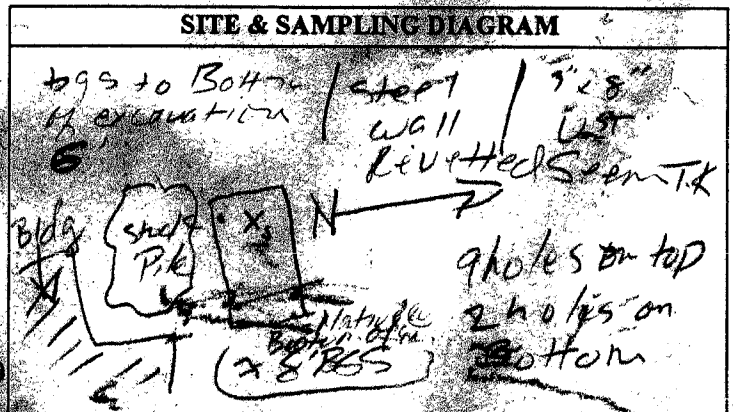
Tank Observations	T #1	T #2	T #3	T #4
Tank Capacity (gallons)	450			
Material last stored	DIL			
Dry ice used (pounds)	0			
Combustible gas concentration as %LEL. (Note time & sampling point)				
(1)	0			
(2)				
(3)				
Oxygen concentration as % volume. (Note time & sampling point.)				
(1)	20.8			
(2)				
(3)				
Tank Material				
Wrapping/Coating, if any				
Obvious holes?				

Tank Observations	T #1	T #2	T #3	T #4
Obvious corrosion?	Yes			
Obvious odors from tank?	Yes			
Seams intact?	Yes			
Tank bed backfill material	Yes			
Obvious discoloration?	Yes			
Obvious odors ex tank bed?	Yes			
Water in excavation?	No			
Sheen/product on water?	No			
Tank tagged by transporter?	No			
Tank wrapped for transport?	N/A			
Tank plugged w/ vent cap?	No			
Date/time tank hauled off?	11:30/20 Sept 12			
No. of soil samples taken?	1-4pt composite + 1 soil sample			
Depth of soil samples (ft. bgs)	8"			

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?		X	
Obvious holes on pipes?		X	
Obvious odors from pipes?		X	
Obvious soil discoloration in piping trench?		X	
Obvious odors from piping trench?		X	
Water in piping trench?		X	
Number & depth of soil samples from piping trench?		0	
Number & depth of water samples from piping trench?		0	

General Observations	Yes	No	N/A
Leak from any tank suspected?	X	KMD	
"Leak Report" form given to the operator?	X	X	
Obviously contaminated soil excavated?	X		
Soil stockpile sampled?	X		
Stockpile lined AND covered?	X		
Water in excavation sampled?	N/A		
Number/depth of water samples taken?	0		
All samples properly preserved for transport?	X	20	

Additional Observations	Yes	No	N/A
Soil/water sampling protocols acceptable?	X		
Sampling "chain of custody" noted?	X		
Tank pit filled in or covered?		X	
Tank pit fenced or barricaded?	X		
Transporter a registered HW hauler?	X		
Uniform HW Manifest completed?	X		
Contractor/Consultant reminded of complete UST Removal Report due within 30 days?	X		
Date/Time removal/closure operations completed?	20 Sept 12, 11:00		
OT hours or additional charges due from contractor?			



Notes/Comments: P&D Environ will write the report
Tank Hauled as per T&E by H&D note by ECH
Heard Dawson

APPENDIX C

Photographs

- UST prior to removal
- UST following removal
- UST pit following tank removal



UST prior to removal



UST following removal



UST pit following tank removal

APPENDIX D

Certificate of Tank Destruction

CERTIFICATE
CERTIFIED SERVICES COMPANY
255 Parr Boulevard · Richmond, California 94801
Phone # 510-235-1393

CUSTOMER: P & D ENVIRONMENTAL

JOB NO: 52T4399

GENERATOR: CATHEDRAL GARDEN OAKLAND LP IN CARE OF EAH INC
638 21 STREET OAKLAND CA 94612

FOR: ECOLOGY CONTROL INDUSTRIES

TANK NO.: 34373

LOCATION: RICHMOND

DATE: 09/28/2012

LAST PRODUCT: DIESEL

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.

Bill Marsha
REPRESENTATIVE

TITLE

[Signature]
INSPECTOR

APPENDIX E

WeighMaster Tickets

POTRERO HILLS LANDFILL, INC.
Weighed at:
POTRERO HILLS LANDFILL, INC.
P.O. Box 68
FAIRFIELD, CA 94533

POTRERO HILLS LANDFILL, INC.
Weighed at:
POTRERO HILLS LANDFILL, INC.
P.O. Box 68
FAIRFIELD, CA 94533

Deputy: Janee Quinonez
Deposit: Janee Quinonez
BILL TO: 1344
R C KNAPP INC

Deputy: Janee Quinonez
Deposit: Janee Quinonez
BILL TO: 1344
R C KNAPP INC

Vehicle ID:
Reference: PHLF12159
Grid: 14
HaulCust#: ORIGIN-OAKLAND
DriverOn?: N
Route: 815
TRLR/LP#: 9D10187

Vehicle ID:
Reference: PHLF12159
Grid: 14
HaulCust#: ORIGIN-OAKLAND
DriverOn?: N
Route: 84
TRLR/LP#: 9B97483

Origin: OAKLAND
DATE IN: 09/25/2012 TIME IN: 10:22:54
DATE OUT: 09/25/2012 TIME OUT: 10:41:21

Origin: OAKLAND
DATE IN: 09/25/2012 TIME IN: 13:15:07
DATE OUT: 09/25/2012 TIME OUT: 13:28:37

INBOUND TICKET Number: 01-316593

INBOUND TICKET Number: 01-316680

SCALE 1 GROSS WT.	69380 LB
SCALE 3 TARE WT.	32520 LB
NET WEIGHT	36860 LB

SCALE 1 GROSS WT.	68520 LB
SCALE 3 TARE WT.	32600 LB
NET WEIGHT	35920 LB

Qty	Description	Amount
18.43	Profile Soil-T ADC	
2.00	US-Unsecured Load	

Qty	Description	Amount
17.96	Profile Soil-T ADC	

X _____

X _____

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 by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code), administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

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 by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code), administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

X _____
(Deputy Signature)

X _____
(Deputy Signature)

This is to certify that this load does not contain any hazardous materials.

This is to certify that this load does not contain any hazardous materials, medical waste or liquids of any type.

POIRERO HILLS LANDFILL, INC.
Weighed at:
POIRERO HILLS LANDFILL, INC.
P.O. Box 68
FAIRFIELD, CA 94533

Deputy: Janee Quinonez
Deposit: Sharmaine Jones
BILL TO: 1344
R C KNAPP INC

Vehicle ID:
Reference: PHLF12159
Grid: 14
HaulCard#: ORIGIN-OAKLAND
DriverID?: N
Route: 34
TRLR/ID#: 9B97483

Origin: OAKLAND
DATE IN: 09/25/2012 TIME IN: 09:48:15
DATE OUT: 09/25/2012 TIME OUT: 10:55:27

INBOUND TICKET Number: 01-316574

SCALE 1 GROSS WT. 67820 LB
MANUAL TARE WT. 32720 LB
NET WEIGHT 35100 LB

Qty	Description	Amount
17.55	Profile Soil-T ADI	

X _____

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 by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

X _____
(Deputy Signature)

This is to certify that this load does not contain any hazardous materials.

APPENDIX F

Laboratory Reports and Chain of Custody Documentation

- **McC Campbell Work Order # 1209515: Soil sample T1 Results**
- **McC Campbell Work Order # 1209516: Soil sample UST COMP A Results**



Analytical Report

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0553; Cathedral Gardens-Oakland	Date Sampled: 09/20/12
		Date Received: 09/20/12
	Client Contact: Heena Dhawan	Date Reported: 09/21/12
	Client P.O.:	Date Completed: 09/21/12

WorkOrder: 1209515

September 21, 2012

Dear Heena:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#0553; Cathedral Gardens-Oakland,**
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1209515

ClientCode: PDEO

- WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Heena Dhawan
 P & D Environmental
 55 Santa Clara, Ste.240
 Oakland, CA 94610
 (510) 658-6916 FAX: 510-834-0152

Email: heena.dhawan@pdenviro.com; lab@pdenv
 cc:
 PO:
 ProjectNo: #0553; Cathedral Gardens-Oakland

Bill to:

Accounts Payable
 P & D Environmental
 55 Santa Clara, Ste.240
 Oakland, CA 94610

Requested TAT:

1 day

Date Received: **09/20/2012**

Date Printed: **09/20/2012**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1209515-001	T1	Soil	9/20/2012 12:00	<input type="checkbox"/>	A	A											

Test Legend:

1	G-MBTEX_S	2	TPH_S	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments:

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: **P & D Environmental** Date and Time Received: **9/20/2012 5:20:36 PM**
 Project Name: **#0553; Cathedral Gardens-Oakland** LogIn Reviewed by: **Melissa Valles**
 WorkOrder N°: **1209515** Matrix: Soil Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 4.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0553; Cathedral Gardens-Oakland	Date Sampled: 09/20/12
	Client Contact: Heena Dhawan	Date Received: 09/20/12
	Client P.O.:	Date Extracted: 09/20/12
		Date Analyzed: 09/21/12

Total Extractable Petroleum Hydrocarbons*

Extraction Method: SW3550B

Analytical Method: SW8015B

Work Order: 1209515

Lab ID	1209515-001A				Reporting Limit for DF =1
Client ID	T1				
Matrix	S				
DF	1				

Compound	Concentration				mg/Kg	ug/L
TPH-Diesel (C10-C23)	18				1.0	NA
TPH-Motor Oil (C18-C36)	ND				5.0	NA
TPH-Bunker Oil (C10-C36)	21				2.0	NA
TPH-Kerosene (C9-C18)	16				1.0	NA

Surrogate Recoveries (%)

%SS:	92			
------	----	--	--	--

Comments	e8			
----------	----	--	--	--

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:
e8) kerosene/kerosene range/jet fuel range



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70819

WorkOrder: 1209515

EPA Method: SW8015Bm		Extraction: SW5030B					Spiked Sample ID: 1209403-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) [£]	ND	0.60	126	123	2.97	120	70 - 130	20	70 - 130	
MTBE	ND	0.10	94.6	98	3.38	99.2	70 - 130	20	70 - 130	
Benzene	ND	0.10	109	114	4.73	109	70 - 130	20	70 - 130	
Toluene	ND	0.10	111	117	4.79	110	70 - 130	20	70 - 130	
Ethylbenzene	ND	0.10	114	119	4.41	113	70 - 130	20	70 - 130	
Xylenes	ND	0.30	116	120	4.07	114	70 - 130	20	70 - 130	
%SS:	123	0.10	122	128	4.83	122	70 - 130	20	70 - 130	

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

BATCH 70819 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209515-001A	09/20/12 12:00 PM	09/20/12	09/21/12 12:32 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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.
 £ TPH(btex) = sum of BTEX areas from the FID.
 # cluttered chromatogram; sample peak coelutes with surrogate peak.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = matrix interference and/or 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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70920

WorkOrder: 1209515

EPA Method: SW8015B		Extraction: SW3550B					Spiked Sample ID: 1209510-005A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	17000	40	NR	NR	NR	104	N/A	N/A	70 - 130	
%SS:	110	25	NR	NR	NR	91	N/A	N/A	70 - 130	

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

BATCH 70920 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209515-001A	09/20/12 12:00 PM	09/20/12	09/21/12 1:25 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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 enough sample to perform matrix spike and matrix spike duplicate.
 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.



Analytical Report

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0553; Cathedral Gardens-Oakland	Date Sampled: 09/20/12
		Date Received: 09/20/12
	Client Contact: Heena Dhawan	Date Reported: 09/21/12
	Client P.O.:	Date Completed: 09/21/12

WorkOrder: 1209516

September 21, 2012

Dear Heena:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#0553; Cathedral Gardens-Oakland,**
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

CHAIN OF CUSTODY RECORD

1209516

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER:

0553

PROJECT NAME:

Cathedral Gardens-
Oakland

NUMBER OF CONTAINERS

ANALYSIS(ES):
TPH (G, D, K, 80, 140)

PRESERVATIVE

RUSH

SAMPLED BY: (PRINTED & SIGNATURE)

Heena Dhawan *Heena Dhawan*

SAMPLE NUMBER

DATE

TIME

TYPE

SAMPLE LOCATION

UST COMP A

9/20/2012

noon

soil stockpile

4 X

ICE

24-Hour RUSH

REMARKS

CE 4.2i
GOOD CONDITION APPROPRIATE
HEAD SPACE ABSENT CONTAINERS
DECHLORINATED IN LAB PRESERVED IN LAB
PRESERVATION VOAS O & S METALS OTHER

RELINQUISHED BY: (SIGNATURE)

Heena Dhawan

DATE

TIME

9/20

1510

RECEIVED BY: (SIGNATURE)

[Signature]

Total No. of Samples (This Shipment)

4

Total No. of Containers (This Shipment)

4

LABORATORY:

McCampbell Analytical

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE

TIME

9/20

1715

RECEIVED BY: (SIGNATURE)

[Signature]

LABORATORY CONTACT:

Angela Ridelius

LABORATORY PHONE NUMBER:

(877) 252-9262

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

[Signature]

SAMPLE ANALYSIS REQUEST SHEET

ATTACHED: () YES (X) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: Please Composite all 4-point samples prior to analysis



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1209516

ClientCode: PDEO

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Heena Dhawan
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: heena.dhawan@pdenviro.com; lab@pdenv
cc:
PO:
ProjectNo: #0553; Cathedral Gardens-Oakland

Bill to:

Accounts Payable
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610

Requested TAT:

1 day

Date Received: **09/20/2012**

Date Printed: **09/20/2012**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1209516-001	UST Comp A	Soil	9/20/2012 12:00	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTX_S	2		3		4		5	
6		7		8		9		10	
11		12							

The following SamplID: 001A contains testgroup.

Prepared by: Melissa Valles

Comments:

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: **P & D Environmental** Date and Time Received: **9/20/2012 5:22:41 PM**
 Project Name: **#0553; Cathedral Gardens-Oakland** Login Reviewed by: **Melissa Valles**
 WorkOrder N°: **1209516** Matrix: Soil Carrier: Benjamin Yslas (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 4.2°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0553; Cathedral Gardens-Oakland	Date Sampled: 09/20/12
	Client Contact: Heena Dhawan	Date Received: 09/20/12
	Client P.O.:	Date Extracted 09/20/12
		Date Analyzed 09/21/12

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 1209516

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	UST Comp A	S	630	50	122	d7,d9

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9) no recognizable pattern



P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0553; Cathedral Gardens-Oakland	Date Sampled: 09/20/12
	Client Contact: Heena Dhawan	Date Received: 09/20/12
	Client P.O.:	Date Extracted: 09/20/12
		Date Analyzed: 09/21/12

Total Extractable Petroleum Hydrocarbons*

Extraction Method: SW3550B

Analytical Method: SW8015B

Work Order: 1209516

Lab ID	1209516-001A				Reporting Limit for DF =1
Client ID	UST Comp A				
Matrix	S				
DF	10				

Compound	Concentration				mg/Kg	ug/L
TPH-Diesel (C10-C23)	2000				1.0	NA
TPH-Motor Oil (C18-C36)	310				5.0	NA
TPH-Bunker Oil (C10-C36)	2100				2.0	NA
TPH-Kerosene (C9-C18)	1900				1.0	NA

Surrogate Recoveries (%)

%SS:	110			
------	-----	--	--	--

Comments	e8			
----------	----	--	--	--

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:
 e8) kerosene/kerosene range/jet fuel range



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70819

WorkOrder: 1209516

EPA Method: SW8015Bm		Extraction: SW5030B					Spiked Sample ID: 1209403-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) [£]	ND	0.60	126	123	2.97	120	70 - 130	20	70 - 130	
MTBE	ND	0.10	94.6	98	3.38	99.2	70 - 130	20	70 - 130	
Benzene	ND	0.10	109	114	4.73	109	70 - 130	20	70 - 130	
Toluene	ND	0.10	111	117	4.79	110	70 - 130	20	70 - 130	
Ethylbenzene	ND	0.10	114	119	4.41	113	70 - 130	20	70 - 130	
Xylenes	ND	0.30	116	120	4.07	114	70 - 130	20	70 - 130	
%SS:	123	0.10	122	128	4.83	122	70 - 130	20	70 - 130	

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

BATCH 70819 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209516-001A	09/20/12 12:00 PM	09/20/12	09/21/12 12:01 PM				

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.
 £ TPH(btex) = sum of BTEX areas from the FID.
 # cluttered chromatogram; sample peak coelutes with surrogate peak.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = matrix interference and/or 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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 70920

WorkOrder: 1209516

EPA Method: SW8015B		Extraction: SW3550B					Spiked Sample ID: 1209510-005A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	17000	40	NR	NR	NR	104	N/A	N/A	70 - 130	
%SS:	110	25	NR	NR	NR	91	N/A	N/A	70 - 130	

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

BATCH 70920 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209516-001A	09/20/12 12:00 PM	09/20/12	09/21/12 1:43 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 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 enough sample to perform matrix spike and matrix spike duplicate.
 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.