Tougeron, Christopher, Env. Health

From: Hugo, Susan, Env. Health
Sent: Wednesday, October 10, 2012 6:17 PM
To: Tougeron, Christopher, Env. Health
Cc: Weston, Robert, Env. Health; Chan, Barney, Env. Health; Levi, Ariu, Env. Health
Subject: FW: Hazardous Materials Spill Report: Cal EMA Control #:12-6116

Chris - please follow -up.

Thanks.
Susan
-----Original Message-----
From: Warning Center [mailto:Warning.Center@ops.calema.ca.gov]
Sent: Wednesday, October 10, 2012 5:07 PM
To: Hugo, Susan, Env. Health
Subject: Hazardous Materials Spill Report: Cal EMA Control #:12-6116

California Emergency Management Agency
Hazardous Materials Spill Report

DATE: 10/10/2012 | RECEIVED BY Cal EMA: Kavin Godwin | Cal EMA CNTRL #:12-6116
TIME: 1658 | RECEIVED BY OSPR: | NRC#:

1.a. PERSON NOTIFYING Cal EMA
1. NAME: XXX | 2. AGENCY: NRC
3. PHONE #: 800-424-8802 | 4. EXT: | 5. PAGER #:

1.b. PERSON REPORTING SPILL (If different from above):
1. NAME: Dan Emerson | 2. AGENCY: Archstone
3. PHONE #: 510-285-2450 | 4. EXT: | 5. PAGER #:

2. SUBSTANCE TYPE:
a. SUBSTANCE: / b.QTY: / Amount / Measure / c. TYPE / d. OTHER / e. PIPELINE / f. Vessel Over => 300 tons
1. Polychlorinated Biphenyls / = / Unknown / Unknown / PETROLEUM / / No / No
2.
3.

g. DESCRIPTION: Per NRC FAX: Caller is reporting a release of an unknown amount of PCB's from three transformers at an office building complex, the cause was due to theft, caller stated that someone came to the area and knocked over the transformers. REMEDIAL ACTIONS, Clean-up completed samples of concrete are being conducted.
h. CONTAINED: Yes | i. WATER INVOLVED: No
j. WATERWAY: | k. DRINKING WATER IMPACTED:
l. KNOWN IMPACT: Unknown

3.a. INCIDENT LOCATION: 5750 to 5780 Hollis St
b. CITY: Emeryville | c. COUNTY: Alameda County | d. ZIP:

---

4. INCIDENT DESCRIPTION:
a. DATE: 10/8/2012 | b. TIME(Military): 1100 | c. SITE: Merchant/Business | d. CAUSE: Other Reason for Other: Theft e. INJURIES: No | f. FATALITY: No | g. EVACUATIONS: No | h. CLEANUP BY: Unknown
e. INJURIES #: | f. FATALS #: | g. EVACS #:

---

5. SUSPECTED RESPONSIBLE PARTY:
a. NAME: Unknown | b. AGENCY:
c. PHONE#: | d. EXT:
e. MAIL ADDRESS:
f. CITY: | g. STATE: CA | h. ZIP:

---

6. NOTIFICATION INFORMATION:
a. ON SCENE: | b. OTHER ON SCENE:
c. OTHER NOTIFIED: NRC
d. ADMIN. AGENCY: Alameda County Environmental Health e. SEC. AGENCY:
f. ADDITIONAL COUNTY: g. ADMIN. AGENCY:
h. NOTIFICATION LIST: DOG Unit: | RWQCB Unit: 2

AA/CUPA , DFG-OSPR , DTSC , RWQCB , US EPA , USFWS , Co/Hlth , Co/E-Hlth

Created by Warning Center on 10/10/2012 4:58:32 PM Last Modified by Warning Center on 10/10/2012 5:07:14 PM

California State Warning Center
California Emergency Management Agency
Phone: (916) 845-8911
Warning.Center@oes.ca.gov

Link to Spill Report:
http://w3.calema.ca.gov/operational/malhaz.nsf/SpillAllDocs/AE3C615BEB53392C88257A930083B3FD?OpenDocument&Login

McCampbell 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

Analytical Report

Enviroserv	Client Project ID: EBS	Date Sampled: 09/14/12
		Date Received: 09/14/12
15902 South Main Street	Client Contact: Kent Olsen	Date Reported: 09/20/12
Gardena, CA 90248	Client P.O.:	Date Completed: 09/20/12

WorkOrder: 1209367

September 20, 2012

Dear Kent:

Enclosed within are:

1) The results of the **4** analyzed samples from your project: **EBS,**
2) QC data for the above samples, 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 McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701 1209367
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Kent Olsen	Bill To: Enviroserv
Company: Environmental Recovery Services, Inc.	
15902 South Main Street, Gardena	
	E-Mail: Enviroserve@aol.com
Tele: (510) 520-9614	Fax: ( )
Project #:	Project Name: EBS
Project Location: Emeryville	
Sampler Signature:	

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: Filter sample for DISSOLVED metals analysis	Other: PCBs	Other:	Comments
Transformer #1	#1	9/14	11:00	1	p	x							x																			X		
Transformer #2	#2	9/14	11:00	1	p	x							x																			X		
Transformer #3	#3	9/14	11:00	1	p	x							x																			X		
Elevator	#4	9/14	11:00	1	p	x							x																			X		

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
	9/14	2:50	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 4 4
GOOD CONDITION ____
HEAD SPACE ABSENT ____
DECHLORINATED IN LAB ____
APPROPRIATE CONTAINERS ____
PRESERVED IN LAB ____

COMMENTS:

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1209367 **ClientCode: ENS**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Kent Olsen
Enviroserv
15902 South Main Street
Gardena, CA 90248
(510) 520-9614 FAX: (510) 337-0545

Email: enviroserve@aol.com
cc:
PO:
ProjectNo: EBS

Bill to:
Accounts Payable
Enviroserv
15902 South Main Street
Gardena, CA 90248
sherbert@enviroserv.net

Requested TAT: 5 days

Date Received: 09/14/2012
Date Printed: 09/14/2012

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
1209367-001	Transformer #1	Oil	9/14/2012 11:00	☐	A											
1209367-002	Transformer #2	Oil	9/14/2012 11:00	☐	A											
1209367-003	Transformer #3	Oil	9/14/2012 11:00	☐	A											
1209367-004	Elevator	Oil	9/14/2012 11:00	☐	A											

Test Legend:

1	8082A_PCB_O(MG/KG)	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

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.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **Enviroserv** Date and Time Received: **9/14/2012 6:48:58 PM**

Project Name: **EBS** LogIn Reviewed by: Zoraida Cortez

WorkOrder N°: **1209367** Matrix: Oil Carrier: Client Drop-In

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: 24.4°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 ☑	

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

Comments: PCB should be in glass

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Enviroserv	Client Project ID: EBS	Date Sampled: 09/14/12
		Date Received: 09/14/12
15902 South Main Street	Client Contact: Kent Olsen	Date Extracted: 09/14/12
Gardena, CA 90248	Client P.O.:	Date Analyzed: 09/18/12-09/19/12

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B | Analytical Method: SW8082 | Work Order: 1209367

Lab ID	1209367-001A	1209367-002A	1209367-003A	1209367-004A	Reporting Limit for DF =1	
Client ID	Transformer #1	Transformer #2	Transformer #3	Elevator		
Matrix	O	O	O	O		
DF	50000	50000	50000	1	O	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND<100,000	ND<100,000	ND<100,000	ND	2.0	NA
Aroclor1221	ND<100,000	ND<100,000	ND<100,000	ND	2.0	NA
Aroclor1232	ND<100,000	ND<100,000	ND<100,000	ND	2.0	NA
Aroclor1242	ND<100,000	ND<100,000	ND<100,000	ND	2.0	NA
Aroclor1248	ND<100,000	ND<100,000	ND<100,000	ND	2.0	NA
Aroclor1254	ND<100,000	ND<100,000	ND<100,000	ND	2.0	NA
Aroclor1260	850,000	870,000	920,000	8.6	2.0	NA
PCBs, total	850,000	870,000	920,000	8.6	2.0	NA
Surrogate Recoveries (%)						
%SS:	---#	---#	---#	90		
Comments	h4	h4	h4	h4		

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

h4) sulfuric acid permanganate (EPA 3665) cleanup

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell 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

QC SUMMARY REPORT FOR SW8082

Test Method: SW8082 (PCBs Only) Matrix: O WorkOrder: 1209367

EPA Method: SW8082 **BatchID: 70770**

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 70770 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209367-001A	09/14/12 11:00 AM	09/14/12	09/18/12 7:18 PM	1209367-002A	09/14/12 11:00 AM	09/14/12	09/18/12 7:56 PM
1209367-003A	09/14/12 11:00 AM	09/14/12	09/18/12 8:34 PM	1209367-004A	09/14/12 11:00 AM	09/14/12	09/19/12 2:56 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.

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.

DHS ELAP Certification 1644

QA/QC Officer

ENVIRONMENTAL RECOVERY SERVICES, INC.

15902 SOUTH MAIN STREET - GARDENA, CALIFORNIA 90248 - TEL. (800) 368-4778 - FAX (562) 490-7272

E Mail: enviroserve@aol.com

October 10, 2012

Jody Halvorsen
Complete Environmental Solutions, Inc.
4690 East Second Street Unit 3
Benicia, CA 94510

Re: Emeryville PCBs

Hello Jody:

On Monday I was contacted by you regarding a spill of transformer fluid at the API project in Emeryville. This spill was evidently caused by thieves who had knocked the transformers over to steal the copper components inside. I had previously sampled these transformers and found they contained very high levels of PCBs. After we spoke I was contacted by Chad Krause with Build GC. We agreed that Enviroserv would respond to the spill on Tuesday morning. He asked that I send him preliminary pricing and work on making sure we were able to meet the project insurance requirements. I sent those costs the same day. My office is working on the insurance documents.

On Tuesday morning at 7:30 am my crew loaded and prepared supplies at our facility in San Leandro, and dispatched to the site. We arrived onsite at 9:00 am. It was agreed in an impromptu meeting with you Chad Krause, Daniel Emerson, a Project manager and I that the first course of action was to assess the area and clean up the spill. I was told at this meeting, by Daniel Emerson, that notification had been made to the appropriate agency about the spill.

It was further discussed that a consulting group, ATC, had made a recommendation that the area be scrubbed with diesel numerous time and then sealed with an Epoxy or similar coating. Please feel free to contact me if you have any additional questions or concerns. I recommended that we explore other options, such as concrete scarification or removal instead, because this site is to be demolished.

Once my crew contained the spill we proceeded to containerizing all the waste and contaminated debris. We filled one 55-gallon drum with liquid waste and 5 with solid materials (debris, absorbent, PPE, etc.). All the transformers were emptied and filled with absorbent. The transformer which had been tipped over was up righted and placed into the secondary containment pan with the other two transformers. The floors were vacuumed, swept, and scrubbed down with diesel soaked rags. All of the drums were placed into the same room with the transformers.

During the cleanup we noticed a metal plate on the floor. This plate is not secure or sealed in any way. We lifted the plate to see what was below it. The plate covers a hole with a gas or water main inside. The hole is in the dirt. There was a box made out of wood at one time but it has since collapsed. It is likely that PCBs have affected this area. It was further observed that the slab in this area is about 2" thick.

ENVIRONMENTAL RECOVERY SERVICES, INC.

15902 SOUTH MAIN STREET - GARDENA, CALIFORNIA 90248 - TEL. (800) 368-4778 - FAX (562) 490-7272

E Mail: enviroserve@aol.com

It is my recommendation that we sample the soil where accessible and determine if it's hot or not. Further sampling should take place to see how far the PCBs have traveled outside the room. Three of the walls in this room are drywall and are probably hot. After that I believe the easiest and most cost effective approach would be to remove the contaminated concrete and debris and ship them offsite once they have been characterized. We need to know how big the affected area is so that we can assess a cost and time efficient plan to remove the problem.

If you should have any questions, please do not hesitate to contact me. I may be reached at (510) 520-9614.

Sincerely,

Kent Olsen

Brian Davey

From: Chad Krause
Sent: Wednesday, October 10, 2012 2:54 PM
To: Emerson, Daniel (DEEmerson@archstonemail.com)
Cc: Daryl Bruce; Brian Davey; Enviroserve@aol.com; Jody Halvorsen (cdi.halvorsen@att.net)
Subject: FW: Transformer Clean-up
Attachments: Archstone- Emeryville 2.docx

Dan,

See attached the work completed to date and the recommendation of our environmental contractor. We concur with their recommendations and think testing should be done on the accessible soil, concrete slab and drywall. The concrete slab appears to only be 2" thick, can be confirmed by testing. Pending the test results, we would most likely do the following:

1. Demolish the Ceiling
2. Remove and dispose of the old transformers.
3. Demolish the concrete slab and drywall, dispose.
4. Take samples of the soil to determine the extent of contamination.
5. Remove and dispose of contaminated soil.

Best Regards,
Chad Krause
C: (415) 286-0953

From: cdi.halvorsen@att.net [mailto:cdi.halvorsen@att.net]
Sent: Wednesday, October 10, 2012 12:48 PM
To: Chad Krause
Subject: Transformer Clean-up

Please review the attached from Enviroserv and let me know...

Jody P. Halvorsen

Complete

BUILDGROUP INC
457 Minna Street, Suite 100, San Francisco, CA 94103
www.buildgc.com
ckrause@buildgc.com

Cardno ATC

Shaping the Future

Cardno ATC

6602 Owens Dr.
Suite 100
Pleasanton, CA 94588

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Fax +1 925 463 2559
www.cardno.com

www.cardnoatc.com

October 8, 2012

Mr. Dan Emerson
Archstone
807 Broadway, Suite 210,
Oakland, CA 94607
Transmitted Via E-Mail: DEEmerson@archstonemail.com

Subject: PCB Consulting Services – Hidden Condition Sampling/Clearance
5750-5780 Hollis Street AKA Building A Basement
Project #75.75077.0004

Dear Mr. Emerson:

Per your request Cardno ATC is pleased to provide the following guidance regarding an accidental polychlorinated biphenyls (PCBs) release located at the above referenced subject location.

Background

Cardno ATC's understands that approximately (≈) 125 gallons of PCBs were released by site vandalism from a transformer onto a concrete floor. The discovery this morning affected a contiguous area of ≈ 100 square feet (≈ 10' by 10'). The concentration of PCBs in the transformer oil had previously been analyzed and was found to range from 850,000 to 920,000 mg/kg. As defined by the Code of Federal Register (CFR), Title 40, Subsection 761.123, the concentration in these transformers are considered as a "high-concentration". The affected concrete floor is considered as a nonimpervious solid surface which is porous and is more likely to absorb spilled PCBs prior to the completion of the cleanup requirements.

Required Notifications

Within 24 hours of discovery of all spills involving a pound or more by weight of PCB, a notification must be reported to the National Response Center [NRC] at 1-800-424-8802 as required by the National Contingency Plan.

Within 24 hours of discovery of a PCB spill of 10 pounds or more by weight, the local Environmental Protection Agency (EPA) office shall be notified.

The notification conveyed to NRC and the EPA shall include the following at a minimum:

- Information of the area of the spill, visible contamination, noting the extent and the source location.
- Methods initiated to restrict access and accidental contact with the hazardous material including a 3-foot buffer zone and hazard warning signage in appropriate languages.

- Initiation of cleanup activities within 72 hours of discovery by a remediation contractor that is experienced and familiar with the EPA PCB spill clean-up policy and processes, specifically for nonimpervious solid surfaces[1], the use of appropriated personal protective equipment for PCB exposure and the proper disposal of generated waste.

Although notification does not appear to be required, Cardno ATC strongly recommends that the PCB spill be reported to State of California, Emergency Management Agency (Cal/EMA) at 1-800-852-7550 immediately. Cal/EMA will then convey any additional required notifications to other state agencies. Along with Cal/EMA notification, notification to the local Emeryville response agency should be done. The response agency will either be the Emeryville Fire Department, Certified Unified Program Agency (CUPA), Administering Agency (AA) or Participation Agency (PA).

Post-cleanup Sampling

As required in 40 CFR 761.130, Cardno ATC will perform post-cleanup sampling (five day turnaround time for results – Rush Results are double what was quoted in the email) in the reported affected spill area that was cleaned along with an additional one foot boundary (resulting in an area of 12' by 12'). The sampling protocol was developed following EPA document 560/5-85-026, Verification of PCB Spill Cleanup by Sampling and Analysis, August 1985. This protocol is designed to characterize the degree of contamination within the entire affected area with a high degree of confidence, while using fewer samples. Therefore, a total of 25 wipe samples will be collected using a hexagonal grid and the previously referenced EPA sampling method to verify the concrete cleanup levels for PCB.

Post-Sampling Result Actions

If the results of the sampled area suggest with 95% confidence that the area has been cleaned to a level of 10ug/100cm^2, no further action on the concrete floor is required.

If the results of the sampled area suggest with 95% confidence that the area has been cleaned to a level of 10ug/100cm^2 to 100ug/100cm^2, the area can either be double wash/rinsed again or encapsulated with a sealant such as epoxy paint. However, the latter option can be disallowed by the Regional EPA Administrator depending on the particulars of the situation. Another round of post-cleanup sampling will need to be conducted after the washing/rinsing.

If the results of the sampled area suggest with 95% confidence that the area has been cleaned to a level above 100ug/100cm^2, another round of washing/rinsing followed with another post-cleanup sampling will need to be conducted.

If the soil beneath the cleaned concrete is exposed due to any reason, the soil should be tested for its levels of PCB due to the porosity of concrete.

Recordkeeping

All documentation of the cleanup work must be maintained for a minimum of five (5) years by the responsible party. The records shall consists of the following:

- Identification of the source of the spill (type of equipment),
- Estimated date and time of the spill,

[1] Wipe Sampling and Double Wash/Rinse Cleanup as Recommended by the Environmental Protection Agency PCB Spill Cleanup Policy, June 23, 1987, Revised and Clarified on April 18, 1991, Section II, Description of Double Wash/Rinse.

- Date(s) and time(s) of cleanup completion,
- A brief description of the spill location and the nature of the materials contaminated (indoors in a non-restricted access area),
- Pre-cleanup sampling data used to establish the spill boundaries (measurements, photos) and a brief description of the sampling methodology used to establish the spill boundaries,
- A brief description of the solid surfaces cleaned,
- If applicable, the approximate depth of the soil excavated and the amount removed, and
- Post-cleanup verification data, a brief description of the sampling methodology and analytical technique used.

Limitations

Cardno ATC provided these services consistent with the level and skill ordinarily exercised by members of the profession currently providing similar services under similar circumstances at the time the services were provided. This statement is in lieu of other statements either expressed or implied. This report is intended for the sole use of Prudential Real Estate Investors. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document, the findings, conclusions, or recommendations is at the risk of said user.

The Client recognizes and agrees that all testing and remediation methods have reliability limitations, no method nor number of sampling locations can guarantee that a condition will be discovered within the performance of the services as authorized by the Client. Additionally, the passage of time may result in a change in the environmental characteristics at this site. This report does not warrant against future operations or conditions that could affect the recommendations made.

After reviewing this document and you have questions or need additional assistance, please feel free to contact me at the number below.

Sincerely,

Dagmar Fung, CIH
Senior Project Manager
for Cardno ATC
Cell 1 925 580 2457
Email: dagmar.fung@cardno.com

Cory Suppes
Branch Manager
for Cardno ATC
Cell 1 510 909 9399
Email: cory.suppes@cardno.com

Tougeron, Christopher, Env. Health

From: Emerson, Daniel [DEEmerson@archstonemail.com]
Sent: Thursday, October 11, 2012 2:11 PM
To: Tougeron, Christopher, Env. Health; Carmen Santos (santos.carmen@epa.gov); Carmen Santos (Santos.Carmen@epamail.epa.gov); 'Cory Suppes' (cory.suppes@atcassociates.com); Dagmar Fung (fung75@atc-enviro.com); Brian Davey; Chad Krause; Enviroserve@aol.com
Cc: Kirk, Karl
Subject: Parkside Emeryville - PCB Release Summary

Below is a summary regarding the Vandalism and spill which occurred at the Parkside Emeryville project on Monday, October 8, 2012.

10/8/12

- An accidental polychlorinated biphenyls (PCBs) release was discovered in the basement of the existing structure located at 5750-5780 Hollis Street. A break-in and subsequent theft and vandalism to three transformers in the basement appears to have been the cause of the spill.
- Archstone personnel notified Cardno ATC (Cory Suppes) of the occurrence (mid-day), the project environmental consultant overseeing the project abatement on behalf of Prudential. A follow up conversation with ATC's industrial hygienist advised that the following steps be taken to address initial concerns:

    - Notification to the Environmental Protection Agency (EPA) and the National Response Center (NRC).
    - Establish a buffer zone of no less than 3' from the affected area.
    - Commencement of clean-up (in accordance with the EPA wash/rinse within 72 hours of discovery.
    - Subsequent testing to verify clean-up efforts would be necessary given the extent of the release.

- Build Group was advised to proceed forward and mobilize Enviroserve and their emergency response team. *(Enviroserve is the subcontractor of the demolition contractor (Complete Environmental Services) also currently responsible for the building abatement)*
- Archstone contacted the EPA to provide notification of the release (phone).

10/9/12

- Enviroserve mobilized a team to the site on Tuesday morning (10/9/12), and proceeded to containerize (in accordance with standard protocol) all waste and contaminated debris, yielding a total of six 55-gallon drums, one for liquids, and five for solid materials (debris, absorbent, PPE, etc.).
- In an effort to prevent any further release, all three transformers were drained and filled with absorbent material. The affected was cleaned and scrubbed in accordance with the EPA wash/rinse protocol. The entire process was completed by mid-day.
- During the cleanup efforts (morning), Enviroserve personnel discovered an unsecured metal plate on the transformer room floor. Upon lifting the plate up, a slab block-out was identified. While unable to clearly determine the extent, it was believed that the hydraulic oil (and PCBs) may have reached soil in this area.
- Archstone personnel made a follow up to the Region 9 (EPA) office by voicemail.

10/10/12

- As a result of the recent discovery by Enviroserve, both Archstone and Cardno ATC personnel contacted the EPA to discuss next steps to clean the facility and set up a meeting to review. A conference call was scheduled with Carmen Santos of EPA Region 9 to discuss the testing and cleanup protocol.
- The NRC was notified of the incident (phone).

NEXT STEPS SCHEDULED

10/11/12

- Call with (EPA Region 9 and Alameda County) – 2:00 pm.
- Archstone to file a police report regarding the break-in and subsequent damage.
- Notification of the Cal/EMA and Emeryville Fire as recommended by Cardno ATC.

10/12/12

- Subject to EPA approval, Cardno ATC is prepared to begin sampling both the concrete slab and soils to determine the remaining PCBs levels in the affected area. Results will be available within 3 days and an update on next steps will be provided thereafter.

Weeks of 10/15/12 and 10/22/12

- Pending test results, the ceiling of the transformer room will be demolished and the transformers will be prepped for removal and disposal.
- All areas affected by the spill, above acceptable levels will be removed and treated as hazardous waste
- If any, contaminated soils will be removed. Confirmation samples will be taken to verify clearance and clean up has been completed.

Daniel Emerson I Production Manager
Archstone I 807 Broadway, Suite 210 I Oakland, CA 94607
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demerson@archstonemail.com I ArchstoneApartments.com

Tougeron, Christopher, Env. Health

From: Emerson, Daniel [DEEmerson@archstonemail.com]
Sent: Monday, October 15, 2012 3:05 PM
To: Tougeron, Christopher, Env. Health
Subject: Soil Sample of Sump @ Parkside Emeryville (5750 Hollis Street - PCB Release)

Chris,

Following our discussion, I've confirmed our contractor will have the appropriate tools to take the soil sample tomorrow morning as planned. I am still awaiting confirmation from our industrial hygienist (Dagmar of Cardno ATC) that we will be prepared to capture the sample and transmit it to the lab for testing.

Stay tuned.

Thank you,

Dan

Daniel Emerson I Production Manager
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demerson@archstonemail.com I ArchstoneApartments.com

Tougeron, Christopher, Env. Health

From: Emerson, Daniel [DEEmerson@archstonemail.com]
Sent: Monday, October 15, 2012 3:00 PM
To: Enviroserve@aol.com
Cc: Tougeron, Christopher, Env. Health
Subject: RE: Pics of Spill Resonse #1

Thanks Kent.

Chris,

Photos as requested.

Daniel Emerson I Production Manager
Archstone I 807 Broadway, Suite 210 I Oakland, CA 94607
D. 510.285.2449 I **C.** 510.306.0263 I **F.** 510.832.1164
demerson@archstonemail.com I ArchstoneApartments.com

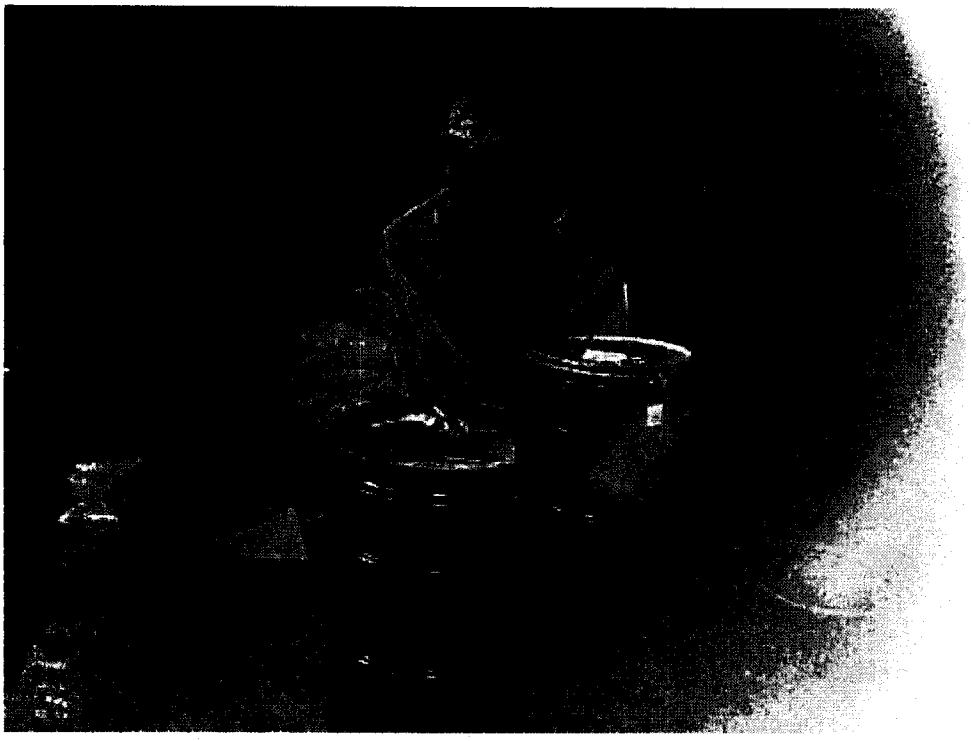
From: Enviroserve@aol.com [mailto:Enviroserve@aol.com]
Sent: Monday, October 15, 2012 2:57 PM
To: Emerson, Daniel
Subject: Fwd: Pics of Spill Resonse #1

Kent Olsen

ENVIRONMENTAL RECOVERY SERVICES, INC.
15902 SOUTH MAIN STREET - GARDENA, CALIFORNIA 90248
CELL PHONE: (510) 520-9614
MAIN OFFICE TEL: (800) 368-4778 -
MAIN OFFICE FAX: (562) 490-7272
WEB: WWW.ENVIROSERV.NET

From: Enviroserve@aol.com
To: cdi.halvorsen@att.net
Sent: 10/15/2012 2:00:41 P.M. Pacific Daylight Time
Subj: Pics of Spill Resonse #1

Enviroserv cleaning up the spill



Kent Olsen

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15902 SOUTH MAIN STREET - GARDENA, CALIFORNIA 90248
CELL PHONE: (510) 520-9614
MAIN OFFICE TEL: (800) 368-4778 -
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WEB: WWW.ENVIROSERV.NET

Tougeron, Christopher, Env. Health

From: Emerson, Daniel [DEEmerson@archstonemail.com]
Sent: Monday, October 15, 2012 3:01 PM
To: Tougeron, Christopher, Env. Health
Subject: FW: Enviroserv Spill Resonse #2

Set 2

Daniel Emerson I Production Manager
Archstone I 807 Broadway, Suite 210 I Oakland, CA 94607
D. 510.285.2449 I **C.** 510.306.0263 I **F.** 510.832.1164
demerson@archstonemail.com I ArchstoneApartments.com

From: Enviroserve@aol.com [mailto:Enviroserve@aol.com]
Sent: Monday, October 15, 2012 2:59 PM
To: Emerson, Daniel
Subject: Fwd: Enviroserv Spill Resonse #2

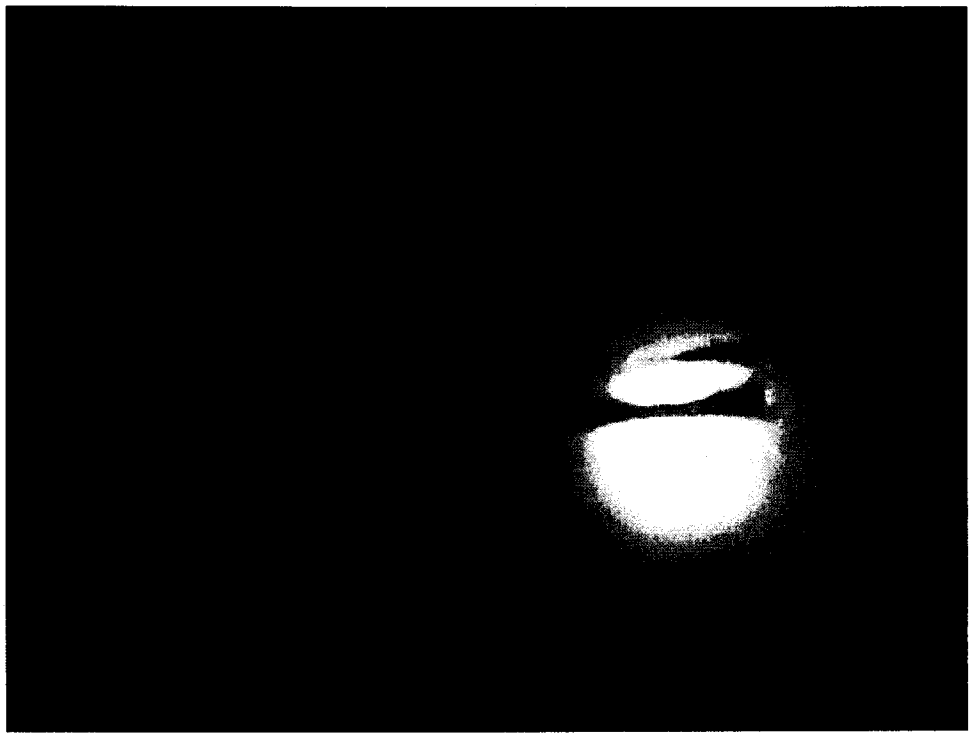
Kent Olsen

ENVIRONMENTAL RECOVERY SERVICES, INC.
15902 SOUTH MAIN STREET - GARDENA, CALIFORNIA 90248
CELL PHONE: (510) 520-9614
MAIN OFFICE TEL: (800) 368-4778 -
MAIN OFFICE FAX: (562) 490-7272
WEB: WWW.ENVIROSERV.NET

-

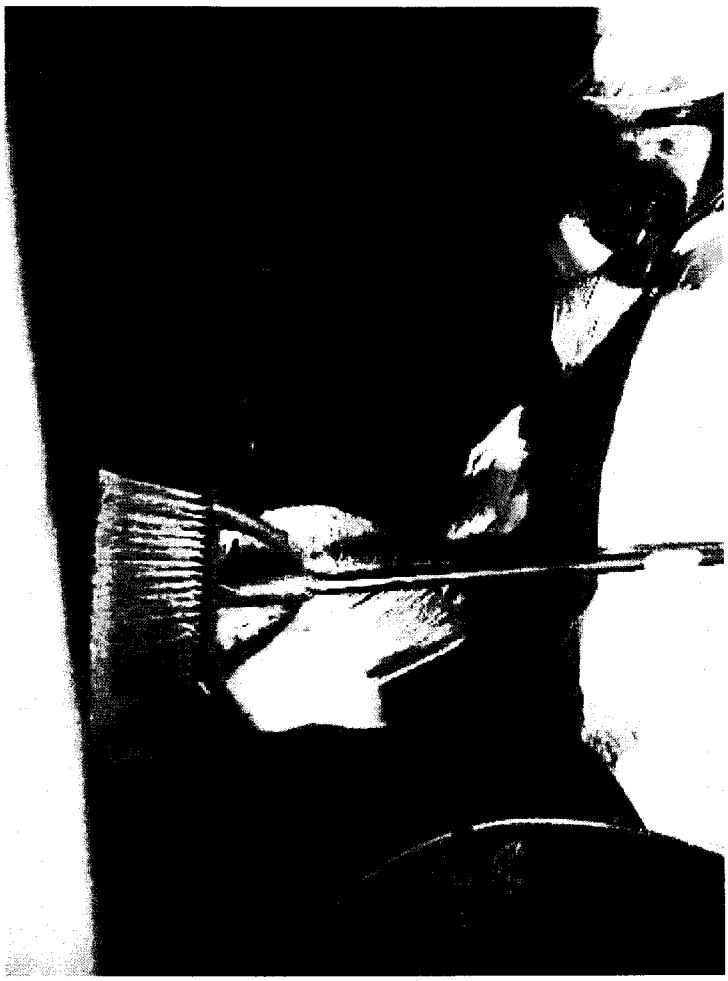
From: Enviroserve@aol.com
To: cdi.halvorsen@att.net
Sent: 10/15/2012 2:07:46 P.M. Pacific Daylight Time
Subj: Enviroserv Spill Resonse #2

-
-



The Hole in the floor "Sump"

The Hole in the floor "Sump" with my boots



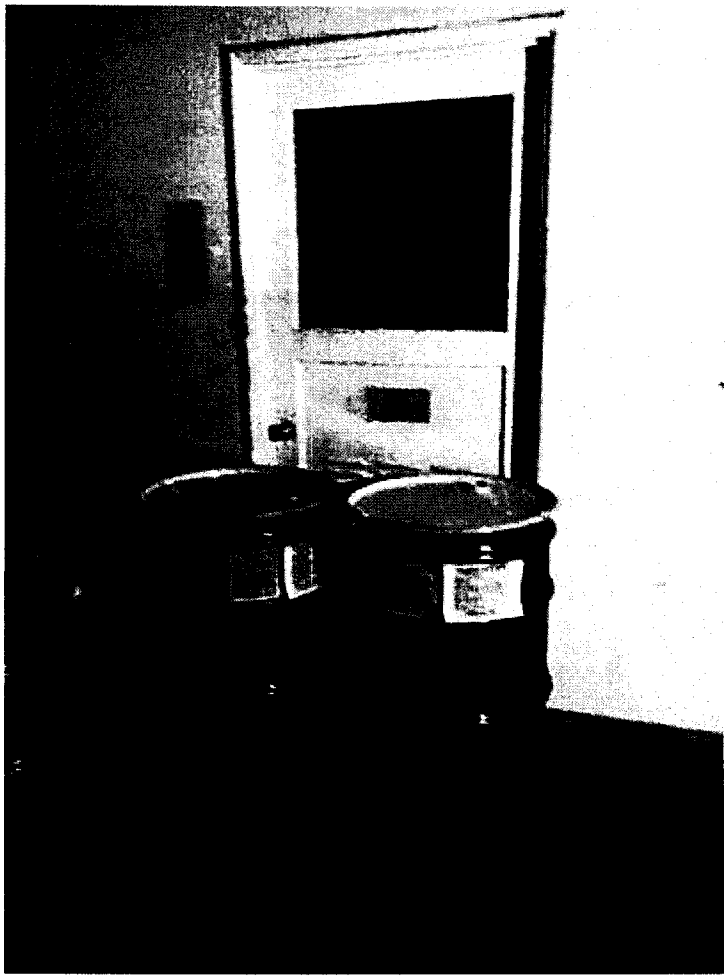
Clean up # 2

Sweeping

More Sweeping

Another view of the "sump"

All cleaned up



How we left it. Complete with signage.

Kent Olsen

ENVIRONMENTAL RECOVERY SERVICES, INC.
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CELL PHONE: (510) 520-9614
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Tougeron, Christopher, Env. Health

From: Emerson, Daniel [DEEmerson@archstonemail.com]
Sent: Thursday, October 18, 2012 10:40 AM
To: Tougeron, Christopher, Env. Health; Dagmar Fung (fung75@atc-enviro.com); Enviroserve@aol.com
Cc: Chad Krause; Brian Davey; Daryl Bruce; 'Cory Suppes' (cory.suppes@atcassociates.com)
Subject: PCB Release - 5750-5780 Hollis Street

Importance: High

Chris,

Following our discussion this morning, please see the below summary of the next steps to be taken to complete our clean-up efforts of the PCB release occurring on October 8th, 2012:

Pending receipt of the soil and concrete test results (for samples taken on 10/16 and 10/17), a report will be prepared by Cardno ATC providing the following:

- Summary of testing and sampling methodology, inclusive of exhibit indicating grid pattern and locations of samples taken on site.
- Results of all sampling
- Recommendations for further soil sampling/testing (based on concrete results)
- Estimated timeline of final cleanup and closure of the incident (coordinated with Build Group and Archstone)
- Final closure report summarizing cleanup efforts and distribution to all regulatory entities.

Additionally, Enviroserve, the cleanup contract will be providing the following documentation and info to Alameda County:

- Plan and summary for disposal of all affected materials – to include location for disposal, hauler, and method of disposal
- Upon completion of disposal, provide a package of all chain of custody documentation and confirmation of disposal (as defined in the initial plan)

Dagmar and Kent,

Please review the above and confirm that you are in agreement with this scope and timeline.

Thanks in advance.

Dan

Daniel Emerson I Production Manager
Archstone I 807 Broadway, Suite 210 I Oakland, CA 94607
D. 510.285.2449 I **C.** 510.306.0263 I **F.** 510.832.1164
demerson@archstonemail.com I ArchstoneApartments.com

Tougeron, Christopher, Env. Health

From: Tougeron, Christopher, Env. Health
Sent: Monday, October 22, 2012 2:41 PM
To: 'fung75@atcassociates.com'
Subject: PCB Incident Emeryville

Dagmar,

Below are the code sections we discussed over the phone.

Hazardous Waste (in addition to TSCA regs)
Title 22
66261.113 indicating concentrations above 5,000 ppm as Extremely Hazardous Waste

66261.24 indicating concentrations 5 ppm or greater as a hazardous waste for toxicity using STLC (soluble threshold limit concentration.
see table below

(B) Table III - List of Organic Persistent and Bioaccumulative Toxic Substances and Their Soluble Threshold Limit Concentration (STLC) and Total Threshold Limit Concentration (TTLC) Values:

Substance	STLC mg/l	TTLC Wet Weight mg/kg
Aldrin	0.14	1.4
Chlordane	0.25	2.5
DDT, DDE, DDD	0.1	1.0
2,4-Dichlorophenoxyacetic acid	10	100
Dieldrin	0.8	8.0
Dioxin (2,3,7,8-TCDD)	0.001	0.01
Endrin	0.02	0.2
Heptachlor	0.47	4.7
Kepone	2.1	21
Lead compounds, organic	-	13
Lindane	0.4	4.0
Methoxychlor	10	100
Mirex	2.1	21
Pentachlorophenol	1.7	17
Polychlorinated biphenyls (PCBs)	5.0	50
Toxaphene	0.5	5
Trichloroethylene	204	2,040
2,4,5-Trichlorophenoxypropionic acid	1.0	10

Also CA Office of Environmental Health Hazard Assessment has soil screening levels for PCB
http://oehha.ca.gov/risk/chhsltable.html

Please let me know if you have any questions

Thank you

Sincerely,

Chris Tougeron
Hazardous Materials Specialist
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, CA 94502
Ph: 510-567-6804
Fax: 510-337-9335
Email: christopher.tougeron@acgov.org
www.acgov.org/aceh

Tougeron, Christopher, Env. Health

From: Emerson, Daniel [DEEmerson@archstonemail.com]
Sent: Thursday, October 25, 2012 11:59 AM
To: Tougeron, Christopher, Env. Health
Cc: Hugo, Susan, Env. Health; Chan, Barney, Env. Health; Detterman, Mark, Env. Health; Jacobs, Jacquelyn, Env. Health; Peter Cusack (pcusack@Langan.com)
Subject: RE: PCB Incident 10-10-2012, 5750-5780 Hollis Street, Emeryville
Attachments: Archstone Parkside +PCB+Results 2012-10-24 - Amended.pdf

Importance: High

Chris,

Following last week's testing, attached is Cardno ATC's formal summary of the results to date.

In response to your previous request and based on these results, Archstone has requested that a work plan (including soil sampling) be prepared by Treadwell Rollo (Langan) and submitted to ACDEH for review. So that we may continue our efforts to expedite the cleanup, who will be the primary contact within the SLC division to review our scope of work at this time?

Thanks in advance.

Dan

Daniel Emerson I Production Manager
Archstone I 807 Broadway, Suite 210 I Oakland, CA 94607 D. 510.285.2449 I C. 510.306.0263 I F. 510.832.1164 demerson@archstonemail.com I ArchstoneApartments.com

-----Original Message-----
From: Tougeron, Christopher, Env. Health [mailto:Christopher.Tougeron@acgov.org]
Sent: Friday, October 19, 2012 9:13 AM
To: Emerson, Daniel
Cc: Hugo, Susan, Env. Health; Chan, Barney, Env. Health; Detterman, Mark, Env. Health; Jacobs, Jacquelyn, Env. Health
Subject: PCB Incident 10-10-2012, 5750-5780 Hollis Street, Emeryville

Mr. Emerson,

As we discussed over the phone, attached is the letter requiring a work plan and deposit to oversee cleanup/remediation activities.
A hard copy will be sent via US mail to your office.

Please contact me if you have any questions

Thank you

Chris Tougeron
Sr. Hazardous Materials Specialist
Alameda County Department of Environmental Health
Ph: 510-567-6804
Fax: 510-337-9335
1131 Harbor Bay Parkway
Alameda, CA 94502

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October 25, 2012

Mr. Dan Emerson
Archstone
807 Broadway, Suite 210,
Oakland, CA 94607
Transmitted Via E-Mail: DEmerson@archstonemail.com

Subject: Consulting Services – PCB Sampling Results and Response Actions
5750-5780 Hollis Street, Building A Basement
Project #75.75077.0004

Dear Mr. Emerson:

Per your request Cardno ATC is pleased to provide the following guidance regarding an accidental polychlorinated biphenyls (PCBs) release located at the above referenced subject location.

Background

Cardno ATC's understands that Archstone personnel discovered on the morning of October 8, 2012 that PCB hydraulic oil had been released by site vandalism from three transformers with an approximate (≈) capacity of 40 gallons each within a room (≈12' x 8') located in the basement of the subject location. The subject location was in the process of entire building site demolition to ground. The vandalism of the copper coils from within the three transformers accidentally breached the secondary containment tray and released some of the PCB hydraulic oil onto the surrounding area. The concentration of PCBs in the transformer hydraulic oil had previously been analyzed and was found to range from 850,000 to 920,000 mg/kg (ppm). As defined by the Code of Federal Register (CFR), Title 40, Subsection 761.123, the concentration in these transformers are considered as a "high-concentration". The affected concrete floor is considered as a nonimpervious solid surface which is porous and is more likely to absorb spilled PCBs prior to the completion of the cleanup requirements.

In addition, Cardno ATC's understands that on October 9, 2012 Enviroserve, the subcontractor of the demolition company, commenced initial cleanup of the transformer room by absorbing and wiping areas that had visible evidence of PCB liquid. Equipment and building materials that were likely contaminated with PCBs were then appropriately cleaned using EPA's double wash/rinse methods except for the sheetrock walls of the room. During cleanup activities an unsecured metal plate was discovered on the transformer room floor. Upon lifting the plate, a slab block-out was identified. While unable to identify the extent of the impact of the breach of secondary containment, it was likely that hydraulic PCB oil had contact with the soil in this area, since only ≈ 50 gals of liquid waste was recovered during the cleanup.

PCB Sampling Results and Response Actions
5750-5780 Hollis Street AKA Building A Basement
Project #75.75077.0004
October 25, 2012

After the October 11, 2012 conference call and discussion with Ms. Carmen Santos, EPA Region 9, and Mr. Chris Tougeron, Alameda County Health Agency, Department of Environmental Health, Archstone and the other involved parties were encouraged to pursue implementation of the self-implementing on-site cleanup and disposal procedures as defined in the Code of Federal Register (CFR), Title 40, Subsection 761.61, PCB remediation waste. Although cleanup of the transformer room had been completed within 72 hours after discovery, surface wipe sampling was not deemed necessary, since the results would not likely provide valuable information regarding the extent of hydraulic PCB oil absorption into the porous concrete. EPA suggested that the site characterization for the self-implementing procedures should begin in the area five (5) feet beyond the transformer room's boundary. As required in 40 CFR 761.61(a)(5)(i)(B)(2)(*i*), the unsampled transformer room concrete floor/equipment along with the boundary perimeter area would be considered and handled as bulk PCB remediation waste which contains $\geq$ 50 ppm PCBs for disposal purposes.

Pre-cleanup Site Characterization

In order to meet the requirements for self-implementing on-site cleanup, the concentration of PCBs was sampled in likely-contaminated and adjacent areas beyond the 5 foot boundary of the transformer room and leading out to the basement entry way. A stain ≈ 15' x 15' was visible in front of the transformer doorway. Water was found dripping from an overhead pipe onto the stained area. The actual source(s) of the stain could not be positively identified. However, the stain was assumed to be PCB contaminated for sampling purposes. Therefore, a sampling area of ≈ 225 sq feet (the stain) plus 20 percent of the original area of contamination (transformer room plus stain), totaling ≈ 370 sq' was designated. The sample locations (Appendix A) were chosen using a hexagonal grid work as discussed in EPA document 560/5-85-026, *Verification of PCB Spill Cleanup by Sampling and Analysis*, dated August 1985. The sampling points were oriented ≈ 5' apart overlaying the hexagonal sampling grid, resulting in a 26 sampling sites, of which nine (9) sites were within the visibly stained area. These nine (9) sampling sites met the minimum requirements for the number of samples cited in the space formula[1] provided in EPA document 530-D-02-002, RCRA Waste Sampling Draft Technical Guidance, dated August 2002, for determining the minimum number of samples for a contaminated site. This non-random heterogeneous design was used to minimize possible sampling, analytical and statistical errors.

The concrete bore sampling with a rotating wet coring device was conducted by Environova, LLC. of Novato on October 16, and 17, 2012. Each core sample of the concrete was a minimum size of 1.5" in diameter to a depth of at least 1", but no greater than 3" per the specifications of 40 CFR 761.286. Using a clean pair of nitrile gloves, Ms. Dagmar Fung of Cardno ATC retrieved each bore sample and placed it into a clean zip-lock plastic bag, labeled with a unique identification number. The sample information was listed onto the chain of custody (COC) [Appendix B]. The sealed samples were placed into an ice cold cooler for delivery to McCampbell Analytical, Inc. in Pittsburg, CA. McCampbell Analytical, Inc. is certified under the California State Environmental Laboratory accreditation Program, Certificate No. 1644, for PCB field of testing (Appendix C).

In addition, Alameda County representative, Chris Tougeron, was on site October 16, 2012 to observe the coring process. He requested that a soil sample be collected from the exposed soil adjacent to breached secondary containment tray in the transformer room. Environova collected three soil samples in 2"d x 6"l stainless steel sleeves representing a soil core from the surface to 6", 6" to 12" and 12" to 18" deep. Each soil sleeve was capped with plastic end caps and uniquely labeled. The sample information was listed onto the COC [Appendix B]. The sealed soil sleeve samples were placed into an ice cold cooler for delivery to McCampbell Analytical, Inc. in Pittsburg, CA.

[1] $L = \sqrt{A/n}$, where L = distance between points (5)
A = area (225)
n = number of samples (9)

Samples collected on October 16, 2012 were stored overnight under refrigeration and then placed back into the ice cold cooler while the remaining samples were collected on October 17, 2012. All collected samples were delivered to McCampbell Analytical on October 17, 2012 for PCB analysis under a rush turn-around time (TAT) of 24 hours after pulverization of the concrete bore sample.

Analytical Results

Table 1 summarizes the analytical results from the 26 concrete bore samples collected at the subject location on October 16, and 17, 2012. The formal laboratory analytical report is located in Appendix B.

Table 1 - Total PCB Results, Concrete Bores,1.5"d
EPA Method SW3550B (Extraction) and SS8082 (Analytical)

5750-5780 Hollis Street, Building A Basement
Emeryville, CA

Sampling Dates: October 16, and 17, 2012

Sampling Date Time, hrs	Site Location #	Sample ID #	≈ Concrete Bore Length (in 0.5" increments)	Total PCB Results (in ppm aka mg/kg)
10/16/12, 1514	1	001	1.5	0.80
10/16/12, 1200	2	002	1.5	<0.50
10/16/12,1205	3	003	2.0	5.0
10/16/12,1219	4	004	1.5	4.8
10/16/12,1509	**5**	**005**	**1.5**	**27**
10/16/12,1522	6	006	1.5	<0.50
10/17/12, 0700	7	007	1.0	<0.50
10/17/12, 0715	8	008	1.0	0.96
10/17/12, 0812	9	009	1.0	0.52
10/17/12, 0823	10	010	1.5	1.2
10/17/12, 0833	11	011	1.0	0.94
10/16/12, 1135	12	012	1.5	0.69
10/16/12, 1145	13	013	1.5	6.6
10/16/12, 1433	14	014	2.0	0.87
10/16/12, 1447	15	015	3.0	2.3
10/16/12, 1616	16	016	1.5	<0.50
10/16/12, 1707	17	017	2.0	<0.50
10/17/12, 0849	18	018	1.0	<0.50
10/17/12, 0740	19	019	1.0	<0.50
10/16/12, 1528	20	020	2.0	<0.50
10/16/12, 1535	21	021	2.5	<0.50
10/16/12, 1608	22	022	1.5	0.53
10/16/12, 1638	23	023	1.5	<0.50
10/17/12, 0650	24	024	1.0	1.6
10/16/12, 1549	25	025	2.0	<0.50
10/16/12, 1554	26	026	1.0	<0.50

Table 2 summarizes the analytical results from the three soil bore samples collected at the subject location on October 16, 2012. The formal laboratory analytical report is located in Appendix B.

Table 2 - Total PCB Results, Soil Bores, 2.0"d x 6"l
EPA Method SW3550B (Extraction) and SS8082 (Analytical)

5750-5780 Hollis Street, Building A Basement
Emeryville, CA

Sampling Date: October 16, 2012

Sampling Date Time, hrs	Site Location #	Sample ID #	Bore Depth	Total PCB Results (in ppm aka mg/kg)
10/16/2012 1245	**30**	**030**	**Surface to 6"**	**11,000**
10/16/2012 1300	**30**	**031**	**6" to 12"**	**3,000**
10/16/2012, 1312	30	032	12" to 18"	5.8

Discussion

PCB, Concrete

The analytical results from the pulverized concrete bore samples confirmed fourteen (14) of the 26 samples had detectable total PCBs in excess of the method's reporting limits. One (1) of these samples from site location #5 exceeded the EPA bulk PCB remediation waste cleanup level for low occupancy areas of 25 ppm as defined in the self-implementing provisions. None of the samples exceeded the California Department of Toxic Substances' total threshold limit concentration (TTLC) for PCB of 50 mg/kg under its toxicity criterion for hazardous waste.

PCB, Soil

The analytical results from the soil bore samples confirmed detectable levels of PCBs in all of the collected samples, representing soil from the surface to a depth of 18". The extent of the PCB contamination cannot be determined without removal of the concrete floor and more extensive soil sampling. After determining the extent of the PCBs in the soil, EPA does allow under its self-implementing provisions, on-site clean up using soil washing techniques as defined in 40 CFR 761.61(a)(5)(i), without their approval.

However, due to the presence of PCBs in the soil, Alameda County Environmental Health, Spills Leaks Investigation and Cleanup (SLIC) Program and the California State Water Resources Control Board must now be notified, since both have jurisdiction over chemical releases that have contaminated soil and/or groundwater. As part of your response actions to them, work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments will be required to address the PCB in soil, all relevant soil work must be performed by or under the direction of appropriately registered or certified technical professionals. All documents that contain site specific data, data interpretations, or recommendations must comply with requirements and include the professional registration stamp, signature and statement of professional certification of the preparer. Also a cover letter, signed by an officer or legally authorized representative of Archstone is required for all work plans, reports and technical documents provided pursuant the regulations that includes the following statement or equivalent: "I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge."

PCB Sampling Results and Response Actions
5750-5780 Hollis Street AKA Building A Basement
Project #75.75077.0004
October 25, 2012

Recommendations

Based on the findings of our site visits and the analytical results from our sampling, Cardno ATC recommends that the following actions be initiated:

- Provide notification and certification to EPA Region 9 of Archstone's intent to utilize the self-implementing provision for cleanup of the subject location per the requirements of 40 CFR 761.61(a)(3).
- Include this communication along with its Appendices as part of Archstone's notification,
- Include as part of Archstone's cleanup plan, the removal of the transformer room concrete floor, contents and walls for disposal as hazardous waste along the any of the initial cleanup debris and waste,
- Include as part of Archstone's cleanup plan, the removal of the concrete floor from the perimeter wall of the transformer room to six (6) feet beyond in the front and on the north side (Appendix A) and dispose of as hazardous waste,
- Include as part of Archstone's cleanup plan, the removal of the remaining concrete floor in the basement of the subject location which may be disposed of as non-hazardous waste,
- Maintain the required recordkeeping of the PCB incident and response information per 40 CFR 761.125(c)(5) [Appendix D] for a minimum of five (5) years, and
- Notify Alameda County Environmental Health, Spills Leaks Investigation and Cleanup (SLIC) Program and the California State Water Resources Control Board of the results of the soil sampling and proceed with cleanup response of soil under their jurisdiction.

Sincerely,

Dagmar Fung, CIH
Sr. Project Manager
for Cardno ATC
Cell +1 925 580 2457
Email: dagmar.fung@cardno.com

Matthew Parker, MS, CIH, CSP, ARM
Senior Industrial Hygienist
for Cardno ATC
Direct Line +1 706-722-3310
Email: matthew.parker@cardno.com

Enc: Appendix A – Concrete and Soil Bore Sampling Locations
Appendix B – Analytical Results and Chain of Custody
Appendix C – Analytical Laboratory Accreditation
Appendix D – 40 CFR 761.125 Recordkeeping Reference
Appendix E — Photos

PCB Sampling Results and Response Actions
5750-5780 Hollis Street AKA Building A Basement
Project #75.75077.0004
October 24, 2012

Recommendations

Based on the findings of our site visits and the analytical results from our sampling, Cardno ATC recommends that the following actions be initiated:

- Provide notification and certification to EPA Region 9 of Archstone's intent to utilize the self-implementing provision for cleanup of the subject location per the requirements of 40 CFR 761.61(a)(3).
- Include this communication along with its Appendices as part of Archstone's notification,
- Include as part of Archstone's cleanup plan, the removal of the transformer room concrete floor, contents and walls for disposal as hazardous waste along the any of the initial cleanup debris and waste,
- Include as part of Archstone's cleanup plan, the removal of the concrete floor from the perimeter wall of the transformer room to six (6) feet beyond in the front and on the north side (Appendix A) and dispose of as hazardous waste,
- Include as part of Archstone's cleanup plan, the removal of the remaining concrete floor in the basement of the subject location which may be disposed of as non-hazardous waste,
- Maintain the required recordkeeping of the PCB incident and response information per 40 CFR 761.125(c)(5) [Appendix D] for a minimum of five (5) years, and
- Notify Alameda County Environmental Health, Spills Leaks Investigation and Cleanup (SLIC) Program and the California State Water Resources Control Board of the results of the soil sampling and proceed with cleanup response of soil under their jurisdiction.

Sincerely,

Dagmar Fung, CIH
Sr. Project Manager
for Cardno ATC
Cell +1 925 580 2457
Email: dagmar.fung@cardno.com

Matthew Parker, MS, CIH, CSP, ARM
Senior Industrial Hygienist
for Cardno ATC
Direct Line +1 706-722-3310
Email: matthew.parker@cardno.com

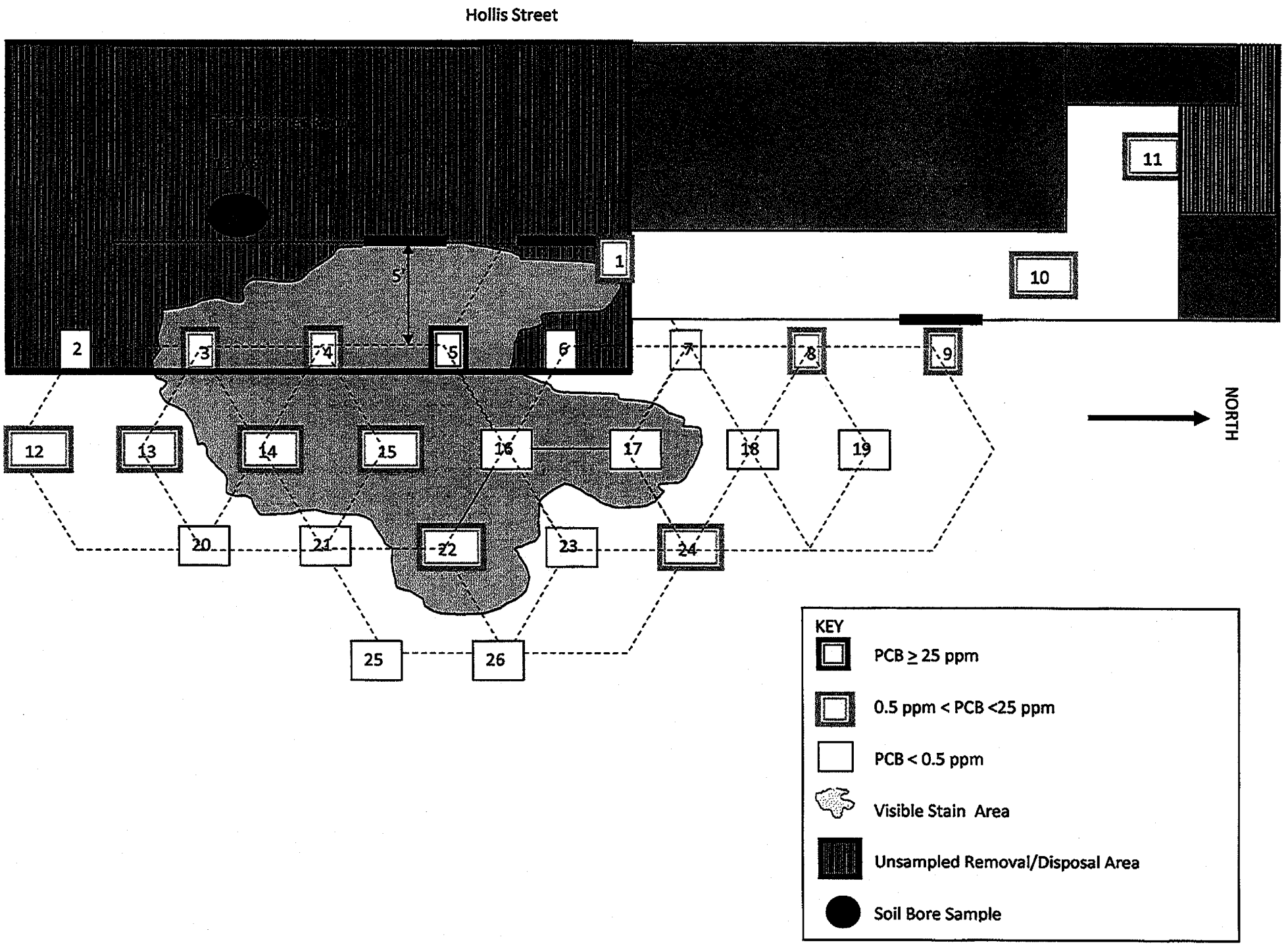
Enc: Appendix A – Concrete and Soil Bore Sampling Locations
Appendix B – Analytical Results and Chain of Custody
Appendix C – Analytical Laboratory Accreditation
Appendix D – 40 CFR 761.125 Recordkeeping Reference
Appendix E –- Photos

PCB Sampling Results and Response Actions
5750-5780 Hollis Street AKA Building A Basement
Project #75.75077.0004
October 24, 2012

Appendix A – Concrete and Soil Bore Sampling Locations

October 16, and 17, 2012

Concrete and Soil Bore Sampling Locations



Appendix B - Analytical Laboratory Report

Chain of Custody

McCampbell 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

Analytical Report

Cardno ATC	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12-10/17/12
		Date Received: 10/17/12
6602 Owens Drive, #100	Client Contact: Dagmar Fung	Date Reported: 10/18/12
Pleasanton, CA 94588	Client P.O.:	Date Completed: 10/18/12

WorkOrder: 1210484

October 18, 2012

Dear Dagmar:

Enclosed within are:

1) The results of the 29 analyzed samples from your project: **#75.75077.0004; Parkside, Archstone,**
2) QC data for the above samples, 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 McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McCAMPBELL ANALYTICAL, INC. 121484

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

RUSH

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Dagmar Fung	Bill To: Maurice McKinnies
Company: Cardno ATC	
6602 Owens Drive, Ste. 100	
Pleasanton, CA 94588	E-Mail: fung75@atcassociates.com
Tele: (925) 580 - 2457	Fax: ( )
Project #: 75.75077.0004	Project Name: Parkside, Archstone
Project Location: Emeryville, CA	
Sampler Signature:	

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED				Analysis Request																Other		Comments
		Date	Time			Water	Soil	Air	Sludge Other	ICE	HCL	HNO_3	Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 8015 / 8021 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515.1 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8240 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	PCB, EPA SW8, 3500B/3540C or 3500B/3550B		
Parkside Archstone Emeryville PCB ~~101512~~ 101612																															**Indicate here if these samples are potentially dangerous to handle:
001			1514				X																						X		PCB
002			1250				X																						X		PCB
003			1205				X																						X		PCB
004			1209				X																						X		PCB
005			1507				X																						X		PCB
006			1522				X																						X		PCB
007		10/7	0700				X																						X		PCB
008		10/7	0715				X																						X		PCB
009		10/7	0812				X																						X		PCB
010		10/7	0823				X																						X		PCB
011		10/7	0833				X																						X		PCB

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Dagmar Fung	10/7/12	1000hrs	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/T 1.6 2.0
GOOD CONDITION YES
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS: See pg 2

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Dagmar Fung	Bill To: Maurice McKinnies
Company: Cardno ATC	
6602 Owens Drive, Ste. 100	
Pleasanton, CA 94588	E-Mail: fung75@atcassociates.com
Tele: (925) 580 - 2457	Fax: ( )
Project #: 75.75077.0004	Project Name: Parkside, Archstone
Project Location: Emeryville, CA	
Sampler Signature:	

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	Analysis Request: TPH as Diesel (8015)	Analysis Request: Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Analysis Request: Total Petroleum Hydrocarbons (418.1)	Analysis Request: EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	Analysis Request: MTBE / BTEX ONLY (EPA 602 / 8021)	Analysis Request: EPA 505/608 / 8081 (Cl Pesticides)	Analysis Request: EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	Analysis Request: EPA 507 / 8141 (NP Pesticides)	Analysis Request: EPA 515 / 8151 (Acidic Cl Herbicides)	Analysis Request: EPA 524.2 / 624 / 8260 (VOCs)	Analysis Request: EPA 525.2 / 625 / 8270 (SVOCs)	Analysis Request: EPA 8270 SIM / 8310 (PAHs / PNAs)	Analysis Request: CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	Analysis Request: LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Analysis Request: Lead (200.7 / 200.8 / 6010 / 6020)	Other: Filter Sample for DISSOLVED metals analysis	Other: PCB: EPA SW4, 3500B/3540C or 3500B/3550B	Comments
Parkside Archstone Emeryvile PCB 10/15/12 10/16/12																																	
012			1135							X																					X		PCB
013			1145							X																					X		PCB
014			1433							X																					X		PCB
015			1454							X																					X		PCB
016			1615							X																					X		PCB
017		10/7/12	1307							X																					X		PCB
018		10/7/12	0849							X																					X		PCB
019		10/8/12	0740							X																					X		PCB
020			1528							X																					X		PCB
021			1535							X																					X		PCB
022			1608							X																					X		PCB

1.5 1.5 2 3 1.5 2 1 1 2 2.5 1.5

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Dagmar Fung	10/17/12	1000	M.S.
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

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

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS:
Concrete cores provided (2.5"ø) of varying depths - Please pulverize for aliquot + 6 sample

McCAMPBELL ANALYTICAL, INC.

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PITTSBURG, CA 94565-1701
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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Dagmar Fung	Bill To: Maurice McKinnies
Company: Cardno ATC	
6602 Owens Drive, Ste. 100	
Pleasanton, CA 94588	E-Mail: fung75@atcassociates.com
Tele: (925) 580 - 2457	Fax: ( )
Project #: 75.75077.0004	Project Name: Parkside, Archstone
Project Location: Emeryville, CA	
Sampler Signature:	

SAMPLE ID (Parkside Archstone Emeryville PCB 401517 12/6/12)	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	PCB; EPA SWA, 3500B/3550C or 3500B/3550B	Other	Comments
023			1638							X																				X		PCB
024		12/6/12	0650							X																				X		PCB
025			1529							X																				X		PCB
026			1529							X																				X		PCB
027	Bank	Blank	559							X																				X		PCB
028	Blank	Water	1100							X																				X		PCB
029			1							X																				X		PCB
030	0-6"		1240				X																							X		PCB
031	6"-12"		1330				X																							X		PCB
032	12"-18"		1512				X																							X		PCB
033																														X		PCB

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
Dagmar Fung	12/6/12	1800	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

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

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS: See Pg (2)

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1210484 **ClientCode: ATCE**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Dagmar Fung
Cardno ATC
6602 Owens Drive, #100
Pleasanton, CA 94588
(925) 460-5300 FAX: (925) 463-2559

Email: fung75@atcassociates.com
cc:
PO:
ProjectNo: #75.75077.0004; Parkside, Archstone

Bill to:
Accounts Payable
Cardno ATC
6602 Owens Drive
Pleasanton, CA 94588

Requested TAT: 1 day

Date Received: 10/17/2012
Date Printed: 10/17/2012

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
1210484-001	001	Solid	10/16/2012 15:14	☐		A	A									
1210484-002	002	Solid	10/16/2012 12:00	☐		A	A									
1210484-003	003	Solid	10/16/2012 12:05	☐		A	A									
1210484-004	004	Solid	10/16/2012 12:19	☐		A	A									
1210484-005	005	Solid	10/16/2012 15:09	☐		A	A									
1210484-006	006	Solid	10/16/2012 15:22	☐		A	A									
1210484-007	007	Solid	10/17/2012 7:00	☐		A	A									
1210484-008	008	Solid	10/17/2012 7:15	☐		A	A									
1210484-009	009	Solid	10/17/2012 8:12	☐		A	A									
1210484-010	010	Solid	10/17/2012 8:23	☐		A	A									
1210484-011	011	Solid	10/17/2012 8:33	☐		A	A									
1210484-012	012	Solid	10/16/2012 11:35	☐		A	A									
1210484-013	013	Solid	10/16/2012 11:45	☐		A	A									
1210484-014	014	Solid	10/16/2012 14:33	☐		A	A									
1210484-015	015	Solid	10/16/2012 14:47	☐		A	A									

Test Legend:

1	8082A_PCB_S	2	8082A_PCB_Solid	3	PRPulverization	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.

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1210484 **ClientCode: ATCE**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Dagmar Fung
Cardno ATC
6602 Owens Drive, #100
Pleasanton, CA 94588
(925) 460-5300 FAX: (925) 463-2559

Email: fung75@atcassociates.com
cc:
PO:
ProjectNo: #75.75077.0004; Parkside, Archstone

Bill to:
Accounts Payable
Cardno ATC
6602 Owens Drive
Pleasanton, CA 94588

Requested TAT: 1 day

Date Received: **10/17/2012**
Date Printed: **10/17/2012**

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
1210484-016	016	Solid	10/16/2012 16:16	☐		A	A									
1210484-017	017	Solid	10/16/2012 17:07	☐		A	A									
1210484-018	018	Solid	10/17/2012 8:49	☐		A	A									
1210484-019	019	Solid	10/17/2012 7:40	☐		A	A									
1210484-020	020	Solid	10/16/2012 15:28	☐		A	A									
1210484-021	021	Solid	10/16/2012 15:35	☐		A	A									
1210484-022	022	Solid	10/16/2012 16:08	☐		A	A									
1210484-023	023	Solid	10/16/2012 16:38	☐		A	A									
1210484-024	024	Solid	10/17/2012 6:50	☐		A	A									
1210484-025	025	Solid	10/16/2012 15:49	☐		A	A									
1210484-026	026	Solid	10/16/2012 15:54	☐		A	A									
1210484-027	030	Soil	10/16/2012 12:45	☐	A											
1210484-028	031	Soil	10/16/2012 13:00	☐	A											
1210484-029	032	Soil	10/16/2012 13:12	☐	A											

Test Legend:

1	8082A_PCB_S	2	8082A_PCB_Solid	3	PRPulverization	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.

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **Cardno ATC** Date and Time Received: **10/17/2012 10:26:32 AM**

Project Name: **#75.75077.0004; Parkside, Archstone** Login Reviewed by: **Melissa Valles**

WorkOrder N°: **1210484** Matrix: Soil/Solid Carrier: Client Drop-In

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: 16.2°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 ☑	

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

Comments:

McCampbell 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

Cardno ATC 6602 Owens Drive, #100 Pleasanton, CA 94588	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12
		Date Received: 10/17/12
	Client Contact: Dagmar Fung	Date Reported: 10/18/12
	Client P.O.:	Date Completed: 10/18/12

Work Order: 1210484

October 18, 2012

Case Narrative

All concrete samples were pulverized prior to extraction by EPA 3550B.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell 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

Cardno ATC	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12
		Date Received: 10/17/12
6602 Owens Drive, #100	Client Contact: Dagmar Fung	Date Extracted: 10/17/12
Pleasanton, CA 94588	Client P.O.:	Date Analyzed: 10/18/12

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B | Analytical Method: SW8082 | Work Order: 1210484

Lab ID	1210484-027A	1210484-028A	1210484-029A		Reporting Limit for DF = 1	
Client ID	030	031	032			
Matrix	S	S	S			
DF	5000	1000	5		S	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND<2500	ND<500	ND<2.5		0.05	NA
Aroclor1221	ND<2500	ND<500	ND<2.5		0.05	NA
Aroclor1232	ND<2500	ND<500	ND<2.5		0.05	NA
Aroclor1242	ND<2500	ND<500	ND<2.5		0.05	NA
Aroclor1248	ND<2500	ND<500	ND<2.5		0.05	NA
Aroclor1254	ND<2500	ND<500	ND<2.5		0.05	NA
Aroclor1260	11,000	3000	5.8		0.05	NA
PCBs, total	11,000	3000	5.8		0.05	NA
Surrogate Recoveries (%)						
%SS:	---#	---#	70			
Comments	h4	h4	h4			

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

h4) sulfuric acid permanganate (EPA 3665) cleanup

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell 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

Cardno ATC	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12-10/17/12
		Date Received: 10/17/12
6602 Owens Drive, #100	Client Contact: Dagmar Fung	Date Extracted: 10/17/12
Pleasanton, CA 94588	Client P.O.:	Date Analyzed: 10/17/12-10/18/12

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B | Analytical Method: SW8082 | Work Order: 1210484

Lab ID	1210484-001A	1210484-002A	1210484-003A	1210484-004A	Reporting Limit for DF =1	
Client ID	001	002	003	004		
Matrix	S	S	S	S		
DF	1	1	1	2	S	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND<0.50	ND<0.50	ND<0.50	ND<1.0	0.05	NA
Aroclor1221	ND<0.50	ND<0.50	ND<0.50	ND<1.0	0.05	NA
Aroclor1232	ND<0.50	ND<0.50	ND<0.50	ND<1.0	0.05	NA
Aroclor1242	ND<0.50	ND<0.50	ND<0.50	ND<1.0	0.05	NA
Aroclor1248	ND<0.50	ND<0.50	ND<0.50	ND<1.0	0.05	NA
Aroclor1254	ND<0.50	ND<0.50	ND<0.50	ND<1.0	0.05	NA
Aroclor1260	0.80	ND<0.50	5.0	4.8	0.05	NA
PCBs, total	0.80	ND<0.50	5.0	4.8	0.05	NA
Surrogate Recoveries (%)						
%SS:	92	90	95	79		
Comments	h4	h4	h4	h4		

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

h4) sulfuric acid permanganate (EPA 3665) cleanup

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Cardno ATC	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12-10/17/12
		Date Received: 10/17/12
6602 Owens Drive, #100	Client Contact: Dagmar Fung	Date Extracted: 10/17/12
Pleasanton, CA 94588	Client P.O.:	Date Analyzed: 10/17/12-10/18/12

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B | Analytical Method: SW8082 | Work Order: 1210484

Lab ID	1210484-005A	1210484-006A	1210484-007A	1210484-008A	Reporting Limit for DF =1	
Client ID	005	006	007	008		
Matrix	S	S	S	S		
DF	10	1	1	1	S	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND<5.0	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1221	ND<5.0	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1232	ND<5.0	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1242	ND<5.0	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1248	ND<5.0	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1254	ND<5.0	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1260	27	ND<0.50	ND<0.50	0.96	0.05	NA
PCBs, total	27	ND<0.50	ND<0.50	0.96	0.05	NA
Surrogate Recoveries (%)						
%SS:	101	95	105	101		
Comments	h4	h4	h4	h4		

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

h4) sulfuric acid permanganate (EPA 3665) cleanup

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Cardno ATC	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12-10/17/12
		Date Received: 10/17/12
6602 Owens Drive, #100	Client Contact: Dagmar Fung	Date Extracted: 10/17/12
Pleasanton, CA 94588	Client P.O.:	Date Analyzed: 10/17/12-10/18/12

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B | Analytical Method: SW8082 | Work Order: 1210484

Lab ID	1210484-009A	1210484-010A	1210484-011A	1210484-012A	Reporting Limit for DF =1	
Client ID	009	010	011	012		
Matrix	S	S	S	S		
DF	1	1	1	1	S	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1221	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1232	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1242	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1248	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1254	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1260	0.52	1.2	0.94	0.69	0.05	NA
PCBs, total	0.52	1.2	0.94	0.69	0.05	NA
Surrogate Recoveries (%)						
%SS:	103	98	94	104		
Comments	h4	h4	h4	h4		

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

h4) sulfuric acid permanganate (EPA 3665) cleanup

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Cardno ATC	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12-10/17/12
		Date Received: 10/17/12
6602 Owens Drive, #100	Client Contact: Dagmar Fung	Date Extracted: 10/17/12
Pleasanton, CA 94588	Client P.O.:	Date Analyzed: 10/17/12-10/18/12

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B | Analytical Method: SW8082 | Work Order: 1210484

Lab ID	1210484-013A	1210484-014A	1210484-015A	1210484-016A	Reporting Limit for DF=1	
Client ID	013	014	015	016		
Matrix	S	S	S	S		
DF	1	1	1	1	S	W
Compound	**Concentration**				**mg/kg**	**ug/L**
Aroclor1016	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1221	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1232	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1242	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1248	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1254	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1260	6.6	0.87	2.3	ND<0.50	0.05	NA
PCBs, total	6.6	0.87	2.3	ND<0.50	0.05	NA
Surrogate Recoveries (%)						
%SS:	92	85	92	94		
Comments	h4	h4	h4	h4		

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Cardno ATC	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12-10/17/12
		Date Received: 10/17/12
6602 Owens Drive, #100	Client Contact: Dagmar Fung	Date Extracted: 10/17/12
Pleasanton, CA 94588	Client P.O.:	Date Analyzed: 10/17/12-10/18/12

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B | Analytical Method: SW8082 | Work Order: 1210484

Lab ID	1210484-017A	1210484-018A	1210484-019A	1210484-020A	Reporting Limit for DF =1	
Client ID	017	018	019	020		
Matrix	S	S	S	S		
DF	1	1	1	1	S	W
Compound	**Concentration**				**mg/kg**	**ug/L**
Aroclor1016	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1221	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1232	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1242	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1248	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1254	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1260	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
PCBs, total	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Surrogate Recoveries (%)						
%SS:	91	95	102	94		
Comments	h4	h4	h4	h4		

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

h4) sulfuric acid permanganate (EPA 3665) cleanup

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AR Angela Rydelius, Lab Manager

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Cardno ATC	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12-10/17/12
		Date Received: 10/17/12
6602 Owens Drive, #100	Client Contact: Dagmar Fung	Date Extracted: 10/17/12
Pleasanton, CA 94588	Client P.O.:	Date Analyzed: 10/17/12-10/18/12

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B | Analytical Method: SW8082 | Work Order: 1210484

Lab ID	1210484-021A	1210484-022A	1210484-023A	1210484-024A	Reporting Limit for DF =1	
Client ID	021	022	023	024		
Matrix	S	S	S	S		
DF	1	1	1	1	S	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1221	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1232	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1242	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1248	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1254	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.05	NA
Aroclor1260	ND<0.50	0.53	ND<0.50	1.6	0.05	NA
PCBs, total	ND<0.50	0.53	ND<0.50	1.6	0.05	NA
Surrogate Recoveries (%)						
%SS:	91	102	105	102		
Comments	h4	h4	h4	h4		

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Cardno ATC	Client Project ID: #75.75077.0004; Parkside, Archstone	Date Sampled: 10/16/12-10/17/12
		Date Received: 10/17/12
6602 Owens Drive, #100	Client Contact: Dagmar Fung	Date Extracted: 10/17/12
Pleasanton, CA 94588	Client P.O.:	Date Analyzed: 10/17/12-10/18/12

Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD*

Extraction Method: SW3550B | Analytical Method: SW8082 | Work Order: 1210484

Lab ID	1210484-025A	1210484-026A			Reporting Limit for DF =1	
Client ID	025	026				
Matrix	S	S				
DF	1	1			S	W
Compound	**Concentration**				mg/kg	ug/L
Aroclor1016	ND<0.50	ND<0.50			0.05	NA
Aroclor1221	ND<0.50	ND<0.50			0.05	NA
Aroclor1232	ND<0.50	ND<0.50			0.05	NA
Aroclor1242	ND<0.50	ND<0.50			0.05	NA
Aroclor1248	ND<0.50	ND<0.50			0.05	NA
Aroclor1254	ND<0.50	ND<0.50			0.05	NA
Aroclor1260	ND<0.50	ND<0.50			0.05	NA
PCBs, total	ND<0.50	ND<0.50			0.05	NA
Surrogate Recoveries (%)						
%SS:	100	101				
Comments	h4	h4				

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

h4) sulfuric acid permanganate (EPA 3665) cleanup

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QC SUMMARY REPORT FOR SW8082

W.O. Sample Matrix: Solid | QC Matrix: Soil | BatchID: 71664 | WorkOrder: 1210484

EPA Method: SW8082 | **Extraction: SW3550B** | **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Aroclor1260	N/A	0.15	N/A	N/A	N/A	96.4	N/A	N/A	70 - 130
%SS:	N/A	0.050	N/A	N/A	N/A	76	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 71664 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1210484-001A	10/16/12 3:14 PM	10/17/12	10/17/12 10:41 PM	1210484-002A	10/16/12 12:00 PM	10/17/12	10/17/12 11:19 PM
1210484-003A	10/16/12 12:05 PM	10/17/12	10/17/12 11:57 PM	1210484-004A	10/16/12 12:19 PM	10/17/12	10/18/12 10:20 AM
1210484-005A	10/16/12 3:09 PM	10/17/12	10/18/12 10:58 AM	1210484-006A	10/16/12 3:22 PM	10/17/12	10/18/12 1:52 AM
1210484-007A	10/17/12 7:00 AM	10/17/12	10/18/12 1:43 AM	1210484-008A	10/17/12 7:15 AM	10/17/12	10/17/12 11:24 PM
1210484-009A	10/17/12 8:12 AM	10/17/12	10/18/12 2:18 AM	1210484-010A	10/17/12 8:23 AM	10/17/12	10/17/12 11:59 PM
1210484-011A	10/17/12 8:33 AM	10/17/12	10/18/12 2:30 AM	1210484-012A	10/16/12 11:35 AM	10/17/12	10/18/12 2:53 AM
1210484-013A	10/16/12 11:45 AM	10/17/12	10/17/12 10:41 PM	1210484-014A	10/16/12 2:33 PM	10/17/12	10/17/12 10:03 PM
1210484-015A	10/16/12 2:47 PM	10/17/12	10/17/12 11:19 PM	1210484-016A	10/16/12 4:16 PM	10/17/12	10/18/12 12:35 AM
1210484-017A	10/16/12 5:07 PM	10/17/12	10/17/12 11:57 PM	1210484-018A	10/17/12 8:49 AM	10/17/12	10/18/12 1:52 AM
1210484-019A	10/17/12 7:40 AM	10/17/12	10/18/12 1:09 AM	1210484-020A	10/16/12 3:28 PM	10/17/12	10/18/12 1:14 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 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.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8082

W.O. Sample Matrix: Soil/Solid | QC Matrix: Soil | BatchID: 71665 | WorkOrder: 1210484

EPA Method: SW8082 | **Extraction: SW3550B** | **Spiked Sample ID: 1210490-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/kg	mg/kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Aroclor1260	ND	0.15	95.5	97.8	2.33	91.9	70 - 130	30	70 - 130
%SS:	77	0.050	88	91	3.33	71	70 - 130	30	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 71665 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1210484-021A	10/16/12 3:35 PM	10/17/12	10/18/12 2:30 AM	1210484-022A	10/16/12 4:08 PM	10/17/12	10/18/12 3:27 AM
1210484-023A	10/16/12 4:38 PM	10/17/12	10/18/12 5:11 AM	1210484-024A	10/17/12 6:50 AM	10/17/12	10/18/12 5:45 AM
1210484-025A	10/16/12 3:49 PM	10/17/12	10/18/12 6:19 AM	1210484-026A	10/16/12 3:54 PM	10/17/12	10/18/12 12:34 AM
1210484-027A	10/16/12 12:45 PM	10/17/12	10/18/12 12:07 PM	1210484-028A	10/16/12 1:00 PM	10/17/12	10/18/12 4:15 PM
1210484-029A	10/16/12 1:12 PM	10/17/12	10/18/12 10:58 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 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.

DHS ELAP Certification 1644

QA/QC Officer

Appendix C - Analytical Laboratory's State of California Accreditation

(PCB Field of Testing, page 11)

CDPH
Public Health

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

McCampbell Analytical, Inc.

1534 Willow Pass Road

Pittsburg, CA 94565

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **1644**

Expiration Date: **10/31/2013**

Effective Date: **11/01/2011**

George C. Kulasingam

Richmond, California
subject to forfeiture or revocation

George C. Kulasingam, Ph.D., Chief
Environmental Laboratory Accreditation Program Branch

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

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Certificate No.: 1644
Renew Date: 10/31/2011

Field of Testing: 101 - Microbiology of Drinking Water

101.010	001	Heterotrophic Bacteria	SM9215B
101.011	001	Heterotrophic Bacteria	SimPlate
101.020	001	Total Coliform	SM9221A,B
101.021	001	Fecal Coliform	SM9221E (MTF/EC)
101.022	001	E. coli	CFR 141.21(f)(6)(i) (MTF/EC+MUG)
101.050	001	Total Coliform	SM9222A,B,C
101.051	001	Fecal Coliform	SM9221E (MF/EC)
101.060	002	Total Coliform	SM9223
101.060	003	E. coli	SM9223
101.120	001	Total Coliform (Enumeration)	SM9221A,B,C
101.130	001	Fecal Coliform (Enumeration)	SM9221E (MTF/EC)
101.131	001	Fecal Coliform (Enumeration)	SM9221E (A-1)
101.140	001	Total Coliform (Enumeration)	SM9222A,B,C
101.150	001	Fecal Coliform (Enumeration)	SM9222D
101.160	001	Total Coliform (Enumeration)	SM9223
101.200	001	E. coli (Enumeration)	SM9223B
101.210	001	E. coli (Enumeration)	SM9221B.1/SM9221F

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.030	001	Bromide	EPA 300.0
102.030	002	Chlorate	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	004	Chlorite	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate	EPA 300.0
102.030	007	Nitrite	EPA 300.0
102.030	008	Phosphate, Ortho	EPA 300.0
102.030	010	Sulfate	EPA 300.0
102.040	001	Bromide	EPA 300.1
102.040	002	Chlorite	EPA 300.1
102.040	003	Chlorate	EPA 300.1
102.040	004	Bromate	EPA 300.1
102.040	005	Chloride	EPA 300.1
102.040	006	Fluoride	EPA 300.1
102.040	007	Nitrate	EPA 300.1
102.040	008	Nitrite	EPA 300.1

As of 10/14/2011, this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

102.040	009	Phosphate, Ortho	EPA 300.1
102.040	010	Sulfate	EPA 300.1
102.045	001	Perchlorate	EPA 314.0
102.050	001	Cyanide	EPA 335.4
102.100	001	Alkalinity	SM2320B
102.120	001	Hardness	SM2340B
102.121	001	Hardness	SM2340C
102.130	001	Conductivity	SM2510B
102.140	001	Total Dissolved Solids	SM2540C
102.145	001	Total Dissolved Solids	EPA 160.1
102.190	001	Cyanide, Total	SM4500-CN E
102.192	001	Cyanide, amenable	SM4500-CN G
102.260	001	Total Organic Carbon	SM5310B
102.261	001	DOC	SM5310B
102.261	002	TOC/DOC	SM5310B
102.270	001	Surfactants	SM5540C
102.280	001	UV254	SM5910B
102.520	001	Calcium	EPA 200.7
102.520	002	Magnesium	EPA 200.7
102.520	003	Potassium	EPA 200.7
102.520	004	Silica	EPA 200.7
102.520	005	Sodium	EPA 200.7
102.520	006	Hardness (calc.)	EPA 200.7
102.543	002	Silica	SM4500-SiO2 D
102.549	002	Chlorine, Free, Combined, Total	SM4500-Cl D
102.552	002	Chlorine, Total	SM4500-Cl E
102.555	003	TOC/DOC	EPA 415.3
102.563	001	Cyanide	Kelada-01

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	001	Aluminum	EPA 200.8
103.140	002	Antimony	EPA 200.8

103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	011	Mercury	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	017	Boron	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.150	002	Antimony	EPA 200.9
103.150	003	Arsenic	EPA 200.9
103.150	009	Lead	EPA 200.9
103.150	012	Selenium	EPA 200.9
103.150	014	Thallium	EPA 200.9
103.161	001	Mercury	EPA 245.2
103.310	001	Chromium (VI)	EPA 218.6

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.030	001	1,2-Dibromoethane	EPA 504.1
104.030	002	1,2-Dibromo-3-chloropropane	EPA 504.1
104.030	003	1,2,3-Trichloropropane	EPA 504.1
104.035	001	1,2,3-Trichloropropane	SRL 524M-TCP
104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2

104.040	025	1,1-Dichloroethene	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	EPA 524.2
104.040	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	EPA 524.2
104.040	034	trans-1,3-Dichloropropene	EPA 524.2
104.040	035	Ethylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethene	EPA 524.2
104.040	046	Toluene	EPA 524.2
104.040	048	1,2,4-Trichlorobenzene	EPA 524.2
104.040	049	1,1,1-Trichloroethane	EPA 524.2
104.040	050	1,1,2-Trichloroethane	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	054	1,2,4-Trimethylbenzene	EPA 524.2
104.040	055	1,3,5-Trimethylbenzene	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	EPA 524.2
104.045	001	Bromodichloromethane	EPA 524.2
104.045	002	Bromoform	EPA 524.2
104.045	003	Chloroform	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.045	005	Trihalomethanes	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050	004	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050	005	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050	006	Trichlorotrifluoroethane	EPA 524.2
104.050	007	tert-Butyl Alcohol (TBA)	EPA 524.2
104.050	008	Carbon Disulfide	EPA 524.2
104.050	009	Methyl Isobutyl Ketone	EPA 524.2

Field of Testing: 105 - Semi-volatile Organic Chemistry of Drinking Water

105.010	000	Pesticides	EPA 505
105.010	002	Alachlor	EPA 505
105.010	003	Atrazine	EPA 505
105.010	004	Chlordane	EPA 505
105.010	006	Endrin	EPA 505
105.010	007	Heptachlor	EPA 505

105.010	008	Heptachlor Epoxide	EPA 505
105.010	009	Hexachlorobenzene	EPA 505
105.010	010	Hexachlorocyclopentadiene	EPA 505
105.010	011	Lindane	EPA 505
105.010	012	Methoxychlor	EPA 505
105.010	013	Simazine	EPA 505
105.010	014	Toxaphene	EPA 505
105.010	015	PCBs as Aroclors (screen)	EPA 505
105.030	000	N-, P- Pesticides	EPA 507
105.030	001	Alachlor	EPA 507
105.030	002	Atrazine	EPA 507
105.030	007	Molinate	EPA 507
105.030	009	Simazine	EPA 507
105.030	010	Thiobencarb	EPA 507
105.082	001	2,4-D	EPA 515.3
105.082	002	Dinoseb	EPA 515.3
105.082	003	Pentachlorophenol	EPA 515.3
105.082	004	Picloram	EPA 515.3
105.082	005	2,4,5-TP	EPA 515.3
105.082	006	Bentazon	EPA 515.3
105.082	007	Dalapon	EPA 515.3
105.082	009	Chlorinated Acids	EPA 515.3
105.090	001	Alachlor	EPA 525.2
105.090	003	Atrazine	EPA 525.2
105.090	004	Benzo(a)pyrene	EPA 525.2
105.090	008	Di(2-ethylhexyl) Adipate	EPA 525.2
105.090	009	Di(2-ethylhexyl) Phthalate	EPA 525.2
105.090	016	Hexachlorobenzene	EPA 525.2
105.090	017	Hexachlorocyclopentadiene	EPA 525.2
105.090	022	Molinate	EPA 525.2
105.090	023	Pentachlorophenol	EPA 525.2
105.090	025	Simazine	EPA 525.2
105.090	029	Polynuclear Aromatic Hydrocarbons	EPA 525.2
105.090	030	Adipates	EPA 525.2
105.090	031	Phthalates	EPA 525.2
105.090	032	Other Extractables	EPA 525.2
105.100	000	Carbamates	EPA 531.1
105.100	005	Carbofuran	EPA 531.1
105.100	008	Oxamyl	EPA 531.1
105.101	001	Carbofuran	EPA 531.2
105.101	002	Oxamyl	EPA 531.2
105.101	003	Aldicarb	EPA 531.2
105.101	004	Aldicarb Sulfone	EPA 531.2

105.101	005	Aldicarb Sulfoxide	EPA 531.2
105.101	006	Carbaryl	EPA 531.2
105.101	007	3-Hydroxycarbofuran	EPA 531.2
105.101	008	Methomyl	EPA 531.2
105.120	001	Glyphosate	EPA 547
105.140	001	Endothall	EPA 548.1
105.150	001	Diquat	EPA 549.2
105.200	001	Bromoacetic Acid	EPA 552.2
105.200	003	Chloroacetic Acid	EPA 552.2
105.200	004	Dalapon	EPA 552.2
105.200	005	Dibromoacetic Acid	EPA 552.2
105.200	006	Dichloroacetic Acid	EPA 552.2
105.200	007	Trichloroacetic Acid	EPA 552.2
105.200	008	Haloacetic Acids (HAA5)	EPA 552.2
Field of Testing: 106 - Radiochemistry of Drinking Water			
106.092	001	Uranium	EPA 200.8
Field of Testing: 107 - Microbiology of Wastewater			
107.010	001	Heterotrophic Bacteria	SM9215B
107.020	001	Total Coliform	SM9221B
107.040	001	Fecal Coliform	SM9221C,E (MTF/EC)
107.041	001	Fecal Coliform	SM9221C,E (A-1)
107.060	001	Total Coliform	SM9222B
107.080	001	Fecal Coliform	SM9222D
107.100	001	Fecal Streptococci	SM9230B
107.100	002	Enterococci	SM9230B
107.242	001	Enterococci	Enterolert
107.245	001	E. coli	SM9223
Field of Testing: 108 - Inorganic Chemistry of Wastewater			
108.020	001	Conductivity	EPA 120.1
108.090	001	Residue, Volatile	EPA 160.4
108.110	001	Turbidity	EPA 180.1
108.112	001	Boron	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (calc.)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	004	Nitrate	EPA 300.0
108.120	005	Nitrite	EPA 300.0
108.120	006	Nitrate-nitrite	EPA 300.0

108.120	007	Phosphate, Ortho	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.121	001	Bromide	EPA 300.1
108.121	002	Chloride	EPA 300.1
108.121	003	Fluoride	EPA 300.1
108.121	004	Nitrate	EPA 300.1
108.121	005	Nitrite	EPA 300.1
108.121	006	Nitrate-nitrite	EPA 300.1
108.121	007	Phosphate, Ortho	EPA 300.1
108.121	008	Sulfate	EPA 300.1
108.141	001	Alkalinity	EPA 310.2
108.183	001	Cyanide, Total	EPA 335.4
108.200	001	Ammonia	EPA 350.1
108.211	001	Kjeldahl Nitrogen	EPA 351.2
108.261	001	Phosphorus, Total	EPA 365.1
108.263	001	Phosphorus, Total	EPA 365.2
108.264	001	Phosphate, Ortho	EPA 365.3
108.265	001	Phosphorus, Total	EPA 365.3
108.323	001	Chemical Oxygen Demand	EPA 410.4
108.350	001	Total Recoverable Petroleum Hydrocarbons	EPA 418.1
108.360	001	Phenols, Total	EPA 420.1
108.362	001	Phenols, Total	EPA 420.4
108.381	001	Oil and Grease	EPA 1664A
108.390	001	Turbidity	SM2130B
108.400	001	Acidity	SM2310B
108.410	001	Alkalinity	SM2320B
108.420	001	Hardness (calc.)	SM2340B
108.421	001	Hardness	SM2340C
108.430	001	Conductivity	SM2510B
108.440	001	Residue, Total	SM2540B
108.441	001	Residue, Filterable	SM2540C
108.442	001	Residue, Non-filterable	SM2540D
108.443	001	Residue, Settleable	SM2540F
108.462	001	Chlorine	SM4500-Cl D
108.463	001	Chlorine	SM4500-Cl E
108.465	001	Chlorine	SM4500-Cl G
108.470	001	Cyanide, Manual Distillation	SM4500-CN C
108.472	001	Cyanide, Total	SM4500-CN E
108.473	001	Cyanide, amenable	SM4500-CN G
108.490	001	pH	SM4500-H+ B
108.531	001	Dissolved Oxygen	SM4500-O G
108.590	001	Biochemical Oxygen Demand	SM5210B
108.591	001	Carbonaceous BOD	SM5210B

108.602	001	Chemical Oxygen Demand	SM5220D
108.610	001	Total Organic Carbon	SM5310B
108.630	001	Oil and Grease	SM5520B (20th)
108.640	001	Surfactants	SM5540C
108.650	001	Tannin and Lignin	SM5550B (18th/19th)
108.924	001	Cyanide	Kelada-01
108.924	002	Cyanide, amenable	Kelada-01

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8

109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.025	002	Antimony	EPA 200.9
109.025	003	Arsenic	EPA 200.9
109.025	010	Lead	EPA 200.9
109.025	013	Selenium	EPA 200.9
109.025	015	Thallium	EPA 200.9
109.101	017	Nickel	EPA 200.7
109.104	001	Chromium (VI)	EPA 218.6
109.191	001	Mercury	EPA 245.2
109.361	001	Mercury	EPA 1631E

Field of Testing: 110 - Volatile Organic Chemistry of Wastewater

110.020	000	Aromatic Volatiles	EPA 602
110.040	040	Halogenated Hydrocarbons	EPA 624
110.040	041	Aromatic Compounds	EPA 624
110.040	042	Oxygenates	EPA 624
110.040	043	Other Volatile Organics	EPA 624

Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater

111.060	000	Polynuclear Aromatics	EPA 610
111.090	001	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	EPA 613
111.101	030	Pesticides	EPA 625
111.101	032	Polynuclear Aromatic Hydrocarbons	EPA 625
111.101	033	Adipates	EPA 625
111.101	034	Phthalates	EPA 625
111.101	036	Other Extractables	EPA 625
111.170	030	Organochlorine Pesticides	EPA 608
111.170	031	PCBs	EPA 608

Field of Testing: 113 - Whole Effluent Toxicity of Wastewater

113.010	001A	Fathead Minnow (P. promelas)	EPA 600/4-90/027F, Static
113.010	001B	Fathead Minnow (P. promelas)	EPA 600/4-90/027F, Static Renewal
113.010	003A	Rainbow trout (O. mykiss)	EPA 600/4-90/027F, Static
113.010	003B	Rainbow trout (O. mykiss)	EPA 600/4-90/027F, Static Renewal
113.021	001A	Fathead Minnow (P. promelas)	EPA 2000 (EPA-821-R-02-012), Static
113.021	001B	Fathead Minnow (P. promelas)	EPA 2000 (EPA-821-R-02-012), Static Renewal
113.022	003A	Rainbow trout (O. mykiss)	EPA 2019 (EPA-821-R-02-012), Static
113.022	003B	Rainbow trout (O. mykiss)	EPA 2019 (EPA-821-R-02-012), Static Renewal
113.026	011A	Sheepshead minnow (C. variegatus)	EPA 2004 (EPA-821-R-02-012), Static
113.026	011B	Sheepshead minnow (C. variegatus)	EPA 2004 (EPA-821-R-02-012), Static Renewal

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B

114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	016	Zinc	EPA 6010B
114.020	001	Antimony	EPA 6020
114.020	002	Arsenic	EPA 6020
114.020	003	Barium	EPA 6020
114.020	004	Beryllium	EPA 6020
114.020	005	Cadmium	EPA 6020
114.020	006	Chromium	EPA 6020
114.020	007	Cobalt	EPA 6020
114.020	008	Copper	EPA 6020
114.020	009	Lead	EPA 6020
114.020	010	Molybdenum	EPA 6020
114.020	011	Nickel	EPA 6020
114.020	012	Selenium	EPA 6020
114.020	013	Silver	EPA 6020
114.020	014	Thallium	EPA 6020
114.020	015	Vanadium	EPA 6020
114.020	016	Zinc	EPA 6020
114.025	001	Mercury	EPA 6020A
114.106	001	Chromium (VI)	EPA 7199
114.140	001	Mercury	EPA 7470A
114.141	001	Mercury	EPA 7471A
114.221	001	Cyanide, Total	EPA 9012A
114.230	001	Sulfides, Total	EPA 9034
114.240	001	Corrosivity - pH Determination	EPA 9040B
114.241	001	Corrosivity - pH Determination	EPA 9045C
114.280	001	Organic Lead	HML 939-M

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.020	001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.030	001	Gasoline-range Organics	EPA 8015B
116.040	041	Methyl tert-butyl Ether (MTBE)	EPA 8021B
116.040	062	BTEX	EPA 8021B
116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	120	Oxygenates	EPA 8260B
116.090	000	Acrylamide, Acrylonitrile, Acrolein	EPA 8316
116.100	010	BTEX and MTBE	LUFT GC/MS
116.110	001	Total Petroleum Hydrocarbons - Gasoline	LUFT

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.016	001	Diesel-range Total Petroleum Hydrocarbons	LUFT
117.017	001	TRPH Screening	EPA 418.1
117.110	000	Extractable Organics	EPA 8270C
117.111	070	PCBs	EPA 8270C
117.111	071	Pesticides	EPA 8270C
117.120	000	Dioxins and Dibenzofurans	EPA 8280A
117.140	000	Polynuclear Aromatic Hydrocarbons	EPA 8310
117.150	000	Carbonyl Compounds	EPA 8315A
117.171	000	Nitroaromatics and Nitramines	EPA 8330A
117.210	000	Organochlorine Pesticides	EPA 8081A
117.220	000	PCBs	EPA 8082
117.240	000	Organophosphorus Pesticides	EPA 8141A
117.250	000	Chlorinated Herbicides	EPA 8151A
117.270	000	Carbamates, N-methylcarbamates	EPA 8318

Field of Testing: 119 - Toxicity Bioassay of Hazardous Waste

119.010	001	Fathead Minnow (P. promelas)	Polisini & Miller (CDFG 1988)

Field of Testing: 120 - Physical Properties of Hazardous Waste

120.010	001	Ignitability	EPA 1010
120.040	001	Reactive Cyanide	Section 7.3 SW-846
120.050	001	Reactive Sulfide	Section 7.3 SW-846
120.070	001	Corrosivity - pH Determination	EPA 9040B
120.080	001	Corrosivity - pH Determination	EPA 9045C

Field of Testing: 125 - Organic Chemistry of Pesticide Residues in Food (excluding GC/MS)

125.01	001	Pesticide Residues	non-MS
125.02	001	Halogenated Pesticide Residues	non-MS
125.03	001	Organophosphorus Pesticide Residues	non-MS
125.04	001	N-methyl Carbamate Pesticide Residues	non-MS

Field of Testing: 126 - Microbiology of Recreational Water

126.020	001	Total Coliform (Enumeration)	SM9222A,B
126.050	001	Total Coliform and E. coli	SM9223
126.080	001	Enterococci	IDEXX

As of 10/14/2011 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

Appendix D – CFR 761.125 Recordkeeping

Recordkeeping

Requirements for cleanup of high-concentration spills shall be considered complete when all of the immediate requirements, cleanup standards, sampling, and recordkeeping requirements of 40 CFR 761.125 (c)(1) through (5) of are met.

The records and certification must be maintained for a period of 5 years and shall consist of the following:

(i) Identification of the source of the spill (e.g., type of equipment).

(ii) Estimated or actual date and time of the spill occurrence.

(iii) The date and time cleanup was completed or terminated (if cleanup was delayed by emergency or adverse weather: the nature and duration of the delay).

(iv) A brief description of the spill location.

(v) Precleanup sampling data used to establish the spill boundaries if required because of insufficient visible traces, and a brief description of the sampling methodology used to establish the spill boundaries.

(vi) A brief description of the solid surfaces cleaned and of the double wash/rinse method used.

(vii) Approximate depth of soil excavation and the amount of soil removed.

(viii) A certification statement signed by the responsible party stating that the cleanup requirements have been met and that the information contained in the record is true to the best of his/her knowledge.

(ix) While not required for compliance with the policy, the following information would be useful if maintained in the records:

(A) Additional pre- or post-cleanup sampling.

(B) The estimated cost of the cleanup by man-hours, dollars, or both.

Appendix E - Photos

Photo 1 - Concrete Rotating Bore Drill

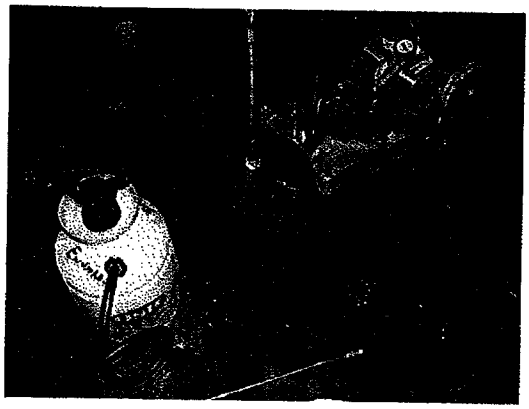

Photo 2 - Concrete Rotating Bore Drill
Note: Water on floor in background from overhead pipe leak