

J.R. Holzmacher P.E., LLC

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June 9, 2014

Kelly Chen
United Construction & Development Group Corp.
134-03 35th Avenue
Flushing, NY 11354

Re: Limited Phase II Investigation
163-05 Archer Avenue
Queens, NY

Dear Ms. Chen:

J.R. Holzmacher P.E. LLC (JRH) has prepared this Limited Phase II Investigation Report at the above referenced property. The purpose of this investigation was to investigate potential environmental concerns mentioned in the draft Phase I Environmental Site Assessment (ESA) report by Property Solutions Incorporated dated September 19, 2013.

Scope of Work

Eight borings were drilled and sampled in areas flagged in the Phase I ESA particularly within the parking garage where a former gasoline tank was thought to be present (B-7 and B-8 on Figure 1). Other investigated areas included the elevator mechanical room (B-5), the basement of the former Jamaica Religious Supplies unit (B-1), and the outside parking lot (remainder of borings). Note that JRH could not enter the elevator mechanical room to conduct sampling; therefore, boring B-5 was drilled just to the outside.

At each outside/parking lot boring location, soil samples were collected continuously from land surface to ten feet below grade using a portable Geoprobe™. The Geoprobe™ uses direct push technology to drive core samplers to the desired depth for soil sample collection. This method can be performed quickly, so if refusal occurs, a new location can be accessed with minimal effort. All boring locations were marked out prior to sampling.

Borings in the basements of the former Jamaica Religious Supplies unit and parking garage were drilled by coring through the concrete slab and using a 4-inch diameter hand auger bucket to collect soil below. Representative photographs of the drilling and boring locations are included in Attachment A.

Geoprobe™ services were provided by Zebra Environmental Inc. of Lynbrook in accordance with the operation and sampling procedures outlined in the United States Environmental Protection Agency (EPA) Standard Operating Procedure SOP No. 2050. Non-disposable sampling equipment was cleaned using distilled water and Alconox detergent with a distilled water rinse prior to the collection of each sample.

Soil samples will be collected using a five foot long Macrocore™ sampler with dedicated acetate liners advanced by the Geoprobe™. The Macrocore™ samples will be visually characterized by a JRH scientist and field screened for the presence of volatile organic compounds (VOCs) using a MiniRae Model 2000 photoionization detector (PID). Based on these descriptions geologic soil-boring logs were prepared and are included as Attachment B.

Any soil interval indicating visual/olfactory evidence of contamination and/or PID readings was to be collected and delivered to American Analytical Laboratories, Farmingdale, New York (NYSDOH ID #11418) for analysis. Where no visual evidence or PID readings were observed, a sample from the 0 to 5-foot Macrocore™ was submitted for analysis. PID readings were measured only in one Macrocore™ (the 5-10 foot sample in boring B-2). Readings in that core were below 10 parts per million (ppm).

All soil samples were analyzed for the full list of VOCs (EPA Method 8260). Since no oil staining was observed in any of the eight locations, a sample from soil boring B-2 was collected and analyzed for CP-51 list SVOCs via EPA Method 8270. The 5 to 10-foot deep sample indicated low PID readings. Four of the eight samples were also analyzed for the eight RCRA metals. These are potential contaminants of concern based on the draft Phase I ESA.

Results

The analytical data for the soil samples are summarized on Tables 1 through 3 and the laboratory report is included as Attachment C. Soil analytical results were compared to NYCRR Part 375-6.8 (b) Soil Clean up Objectives (SCOs) Tables for Unrestricted Use, and summarized below:

- *There were trace detections of two VOCs, acetone and methylene chloride, in the eight soil samples. None of these detections were above their respective Unrestricted SCOs. Acetone and methylene chloride are common laboratory contaminants and were flagged by the laboratory as such.*
- *There were very low detections of SVOCs in the B-2 sample (5-10 feet). However, none of the SVOC detections were above their respective Unrestricted SCOs.*
- *There were detections of metals in the four samples. However, none of these detections were above their respective Unrestricted SCOs.*

Conclusion

The borings drilled and samples collected during this limited Phase II investigation did not indicate the presence of soil contamination. The draft Phase I ESA indicates the property to be E-designated for hazardous materials. As such this would have to be addressed with the NYC Office of Environmental Remediation (OER) prior to redevelopment of the site.

Limited Phase II Investigation
163-05 Archer Ave
June 9, 2014

If you have any questions or need further information, please give us a call.

Very Truly Yours,
J.R. Holzmacher P.E. LLC

A handwritten signature in black ink that reads "James M. DeMartinis". The signature is written in a cursive style with a large, prominent "J" and "M".

James M. DeMartinis P.G.
Senior Hydrogeologist

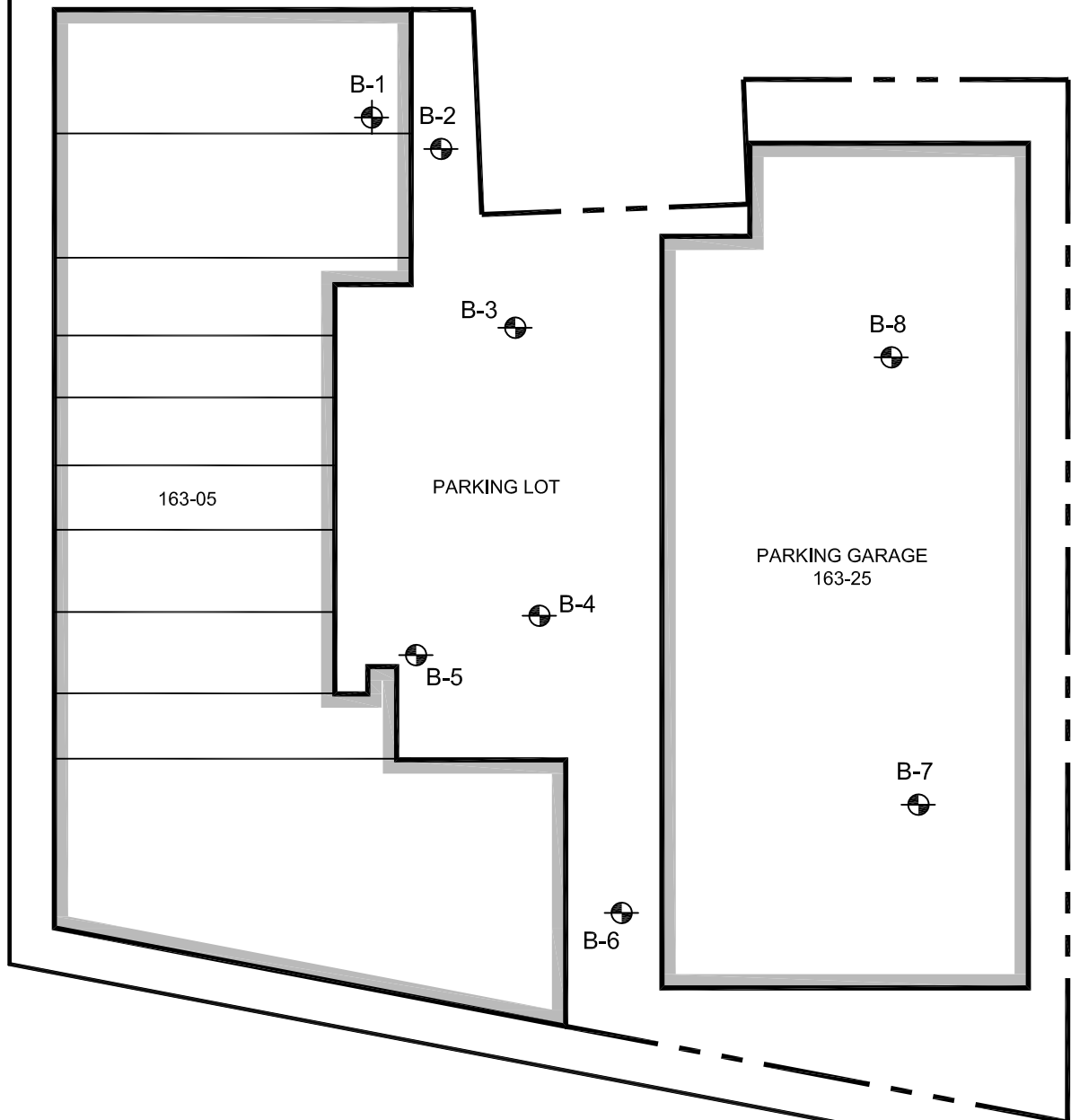
cc:jmd
Encl.

P:\2014\UCDGC\14-01 1605 Archer Ave Phase II\Report\1605 Archer Avenue - Phase II Report.doc

FIGURE




GUY R. BREWER BOULEVARD



ARCHER AVENUE

LONG ISLAND RAILROAD

LEGEND

 B-2 SOIL BORING LOCATIONS

PREPARED BY: **J.R. HOLZMACHER P.E., LLC**
*The Third Generation of Excellence
 In Water Supply, Water Resources,
 Civil and Environmental Engineering*

3555 VETERANS MEMORIAL HWY
 SUITE A
 RONKONKOMA, NEW YORK 11779

PHONE # (631) 234-2220
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TITLE:

Site Plan
 163-05 Archer Avenue
 Queens, New York

DWN:	SCALE:	DATE:	PROJECT NO.:
KS	1:50	05/28/2014	UCDGC14-01
CHKD:	APPD:	REV.:	NOTES:
JMD	JMD	-	-
FIGURE NO.:		1	

TABLES

Gertz Plaza,
163-05 163-27 Archer Ave
Jamaica, New York

Volatile Organic Chemicals for Soils
EPA Method 8260
Table 1

Client Sample ID:		SCOs	SCOs	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
Depth of Sample		Unrestricted	Commercial	4'	6'	3-5'	3-5'	3-5'	3-5'	3-4'	3-4'
Sampling Date:				05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014
Analyte:	Units:										
1,1,1,2-Tetrachloroethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	PPB	680	500000	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	PPB	270	240000	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	PPB	330	500000	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethylbenzene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	PPB	3600	190000	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	PPB	1100	500000	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	PPB	20	30000	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	PPB	8400	190000	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	PPB	2400	280000	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichloropropane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	PPB	1800	130000	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	PPB	100	130000	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	PPB	120	500000	ND	ND	ND	ND	ND	ND	ND	ND

Gertz Plaza,
163-05 163-27 Archer Ave
Jamaica, New York

Volatile Organic Chemicals for Soils
EPA Method 8260
Table 1

Client Sample ID:		SCOs	SCOs	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
Depth of Sample		Unrestricted	Commercial	4'	6'	3-5'	3-5'	3-5'	3-5'	3-4'	3-4'
Sampling Date:				05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014
Analyte:	Units:										
2-Chloroethyl vinyl ether	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
2-Propanol	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	PPB	50	500000	2.2BJ	ND	1.6BJ	2.1BJ	1.4BJ	ND	1.5BJ	1.8BJ
Benzene	PPB	60	44000	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	PPB	760	22000	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	PPB	1100	500000	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodifluoromethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	PPB	370	350000	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	PPB	250	500000	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	PPB	NA		ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND

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Volatile Organic Chemicals for Soils
EPA Method 8260
Table 1

Client Sample ID:		SCOs	SCOs	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
Depth of Sample		Unrestricted	Commercial	4'	6'	3-5'	3-5'	3-5'	3-5'	3-4'	3-4'
Sampling Date:				05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014
Analyte:	Units:										
Dibromomethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethanol	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	PPB	1000	390000	ND	ND	ND	ND	ND	ND	ND	ND
Freon-114	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	PPB	260	500000	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	PPB	930	500000	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	PPB	50	500000	4.9BJ	5.2BJ	5.6B	4.9BJ	5.3BJ	5.2BJ	4.6BJ	5.1BJ
n-Butylbenzene	PPB	12000	500000	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	PPB	12000	500000	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	PPB	3900	500000	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	PPB	260	500000	ND	ND	ND	ND	ND	ND	ND	ND
p-Diethylbenzene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	PPB	11000	500000	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
t-Butyl alcohol	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	PPB	5900	500000	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	PPB	1300	150000	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	PPB	700	500000	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	PPB	190	500000	ND	ND	ND	ND	ND	ND	ND	ND

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Jamaica, New York

Volatile Organic Chemicals for Soils
EPA Method 8260
Table 1

Client Sample ID:		SCOs	SCOs	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8
Depth of Sample		Unrestricted	Commercial	4'	6'	3-5'	3-5'	3-5'	3-5'	3-4'	3-4'
Sampling Date:				05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014	05/30/2014
Analyte:	Units:										
trans-1,3-Dichloropropene	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	PPB	470	200000	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	PPB	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	PPB	20	13000	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

ND - Not detected

Objectives as per NYSDEC Part 375-6.8(b)

J- Laboratory Estimated Concentration

B- Detected in Laboratory Blank

Gertz Plaza,
163-05 163-27 Archer Ave
Jamaica, New York

Chemicals (SVOCs) for Soils
EPA Method 8270 (CP-51 List)
Table 2

Client Sample ID:		SCOs	SCOs	B-2
Depth of Sample		Unrestricted	Commercial	6'
Sampling Date:				05/30/2014
Analyte:	Units:			
Acenaphthene	PPB	20000	500000	ND
Acenaphthylene	PPB	100000	500000	ND
Anthracene	PPB	100000	500000	ND
Benzo(a)anthracene	PPB	1000	5600	45J
Benzo(a)pyrene	PPB	1000	1000	37J
Benzo(b)fluoranthene	PPB	1000	5600	40J
Benzo(g,h,i)perylene	PPB	100000	500000	29J
Benzo(k)fluoranthene	PPB	800	56000	38J
Chrysene	PPB	1000	56000	52J
Dibenzo(a,h)anthracene	PPB	330	560	ND
Fluoranthene	PPB	100000	500000	94J
Fluorene	PPB	30000	500000	ND
Indeno(1,2,3-c,d)pyrene	PPB	500	5600	27J
Phenanthrene	PPB	100000	500000	68J
Pyrene	PPB	100000	500000	77J

Notes:

Notes:

ND - Not detected

Objectives as per NYSDEC Part 375-6.8(b)

J- Laboratory Estimated Concentration

B- Detected in Laboratory Blank

Gertz Plaza,
 163-05 163-27 Archer Ave
 Jamaica, New York

RCRA Metals Analysis
 Table 3

Client Sample ID:	SCOs			B-1	B-3	B-5	B-7
	Unrestricted	Commercial		4'	3-5'	3-5'	3-4'
Sampling Date:				05/30/2014	05/30/2014	05/30/2014	05/30/2014
Analyte:			Units:				
Arsenic	13	16	PPM	1.13	1.42	1.13	0.601
Barium	350	400	PPM	19.1	21.0	30.9	15.3
Cadmium	2.5	9.3	PPM	ND	ND	ND	ND
Chromium	30	1500	PPM	10.2	7.69	12.9	5.84
Lead	63	1000	PPM	3.16	10.7	4.76	2.67
Mercury	0.18	2.8	PPM	ND	0.0295	ND	ND
Selenium	3.9	1500	PPM	ND	ND	ND	ND
Silver	2	1500	PPM	ND	ND	ND	ND

Notes:

ND - Not detected

Objectives as per NYSDEC Part 375-6.8(b)

J- Laboratory Estimated Concentration

**ATTACHEMENT A
PHOTOGRAPHS**

106-05 Archer Avenue
Queens, New York
June 2014



Photo 1 – Basement of former Jamaica Religious Supplies unit.



Photo 2 – Basement of former Jamaica Religious Supplies unit.

J. R. Holzmacher P.E., LLC
Consulting Engineers



Photo 3 – Zebra hand drilling B-1 in basement.



Photo 4 – Drilling soil boring B-2 in the northern portion of parking lot.



Photo 5 – Location of soil boring B-3 in the parking lot.



Photo 6 – Location of soil boring B-4 in the southern portion of parking lot.

106-05 Archer Avenue
Queens, New York
June 2014



Photo 7 –First Macrocore from B-4 soil boring.



Photo 8 – Location of B-5.

106-05 Archer Avenue
Queens, New York
June 2014



Photo 9 – Debris, garbage, and part of van (left side of photo) where B-5 was to be drilled.



Photo 10 – Driveway in southern portion of lot where B-6 was drilled

106-05 Archer Avenue
Queens, New York
June 2014



Photo 11 – Zebra hand drilling B-8 in southern section of garage near location of former UST.



Photo 12 – Soils from boring B-8 (drilled with a hand auger).

J. R. Holzmacher P.E., LLC
Consulting Engineers

**ATTACHMENT B
GEOLOGIC SOIL-BORING LOGS**

BORING LOG

BORING #: B-1

PAGE 1 of 1

DATE: 5/30/2014

CLIENT: United Construction &
Development Group Corp.

SITE: 163-05 Archer Avenue, Queens, NY

CONTRACTOR: Zebra Environmental Corp.

DEPTH DRILLED: 4 feet

DEPTH TO WATER: NA

DRILLING METHOD: Hand Auger

SOIL SAMPLING DEVICE: 4" diameter hand auger

<i>Depth (feet)</i>	<i>Sample #</i>	<i>RECOVERY (inches)</i>	<i>PID Readings (ppm)</i>	<i>Sample Description</i>
0' - 1'		NA	0.0	0" - 8" Concrete core; 8" - 12" Dark brown, mostly medium grained sand - little coarse sand.
1' - 2'		NA	0.0	Brown, mostly medium grained sand and some coarse sand, with little gravel.
2' - 3'		NA	0.0	Brown, mostly medium grained sand and some coarse sand, with little gravel.
3' - 4'	B-1 (4')	NA	0.0	Brown, mostly medium grained sand and some coarse sand, with little gravel.

BORING LOG

BORING #: B-2

PAGE 1 of 1

DATE: 5/30/2014

CLIENT: United Construction &
Development Group Corp.

SITE: 163-05 Archer Avenue, Queens, NY

CONTRACTOR: Zebra Environmental Corp.

DEPTH DRILLED: 10 feet

DEPTH TO WATER: NA

DRILLING METHOD: Direct push with 5' macro cores

SOIL SAMPLING DEVICE: Track mount Geoprobe™ 7720 DT

<i>Depth (feet)</i>	<i>Sample #</i>	<i>RECOVERY (inches)</i>	<i>PID Readings (ppm)</i>	<i>Sample Description</i>
0' – 5'		33"	0.0	0" – 6" Black asphalt with little organic matter, and little silty clay; 6" – 12" Brown, mostly medium grained and fine grained sand with few coarse sand; 12" – 15" Crushed quartz; 15" – 22" Crushed red brick; 22" – 33" Dark brown to brown, mostly silty clay with some fine grained sand, and trace coarse sand.
5' – 10'	B-2 (6')	32"	9.7 @ 5' – 6'	0" – 32" Brown to light brown, mostly medium grained sand with some fine sand, few coarse sand.

BORING LOG

BORING #: B-3

PAGE 1 of 1

DATE: 5/30/2014

CLIENT: United Construction &
Development Group Corp.

SITE: 163-05 Archer Avenue, Queens, NY

CONTRACTOR: Zebra Environmental Corp.

DEPTH DRILLED: 10 feet

DEPTH TO WATER: NA

DRILLING METHOD: Direct push with 5' macro cores

SOIL SAMPLING DEVICE: Track mount Geoprobe™ 7720 DT

<i>Depth (feet)</i>	<i>Sample #</i>	<i>RECOVERY (inches)</i>	<i>PID Readings (ppm)</i>	<i>Sample Description</i>
0' – 5'	B-3 (3'-5')	47"	0.0	0" – 4" Black asphalt; 4" – 16" Dark tan, mostly silty clay with fine grained sand and few mica flakes; 16" – 47" Brown, mostly medium grained sand, few coarse sand, and interspersed gravels.
5' – 10'		40"	0.0	0" - 23" Black asphalt and dark tan, mostly silty clay with fine grained sand and few mica flakes; 23" – 35" Bark brown, mostly medium grained sand and fine grained sand with some mica flakes; 35" – 40" Brown mostly medium and grained sand, with few silty clay.

BORING LOG

BORING #: B-4

PAGE 1 of 1

DATE: 5/30/2014

CLIENT: United Construction &
Development Group Corp.

SITE: 163-05 Archer Avenue, Queens, NY

CONTRACTOR: Zebra Environmental Corp.

DEPTH DRILLED: 10 feet

DEPTH TO WATER: NA

DRILLING METHOD: Direct push with 5' macro cores

SOIL SAMPLING DEVICE: Track mount Geoprobe™ 7720 DT

<i>Depth (feet)</i>	<i>Sample #</i>	<i>RECOVERY (inches)</i>	<i>PID Readings (ppm)</i>	<i>Sample Description</i>
0' – 5'	B-4 (3'-5')	42"	0.0	0" – 6" Black asphalt; 6" – 11" Yellow-brown, mostly medium grained sand with few coarse grained sand; 11" – 13" tan cobbles; 13" – 19" Yellow-brown, mostly medium grained sand with few coarse grained sand; 19" - 23" Dark brown, moistly silty clay and fine grained sand; 23" – 42" Red-brown, mostly medium grained sand with some fine grained sand and few coarse grained sand.
5' – 10'		46"	0.0	0" – 46" Red-brown, mostly medium grained sand with some fine grained sand and few coarse grained sand.

BORING LOG

BORING #: B-5

PAGE 1 of 1

DATE: 5/30/2014

CLIENT: United Construction &
Development Group Corp.

SITE: 163-05 Archer Avenue, Queens, NY

CONTRACTOR: Zebra Environmental Corp.

DEPTH DRILLED: 10 feet

DEPTH TO WATER: NA

DRILLING METHOD: Direct push with 5' macro cores

SOIL SAMPLING DEVICE: Track mount Geoprobe™ 7720 DT

<i>Depth (feet)</i>	<i>Sample #</i>	<i>RECOVERY (inches)</i>	<i>PID Readings (ppm)</i>	<i>Sample Description</i>
0' – 5'	B-5 (3'-5')	26"	0.0	0" – 5" Black asphalt; 5" – 26" Brown, mostly silty clay with some fine grained sand, and few cobbles;
5' – 10'		39"	0.0	0" – 39" Yellow-brown, mostly medium and fine grained sand with interspersed cobble layers and few coarse grained sand.

BORING LOG

BORING #: B-6

PAGE 1 of 1

DATE: 5/30/2014

CLIENT: United Construction &
Development Group Corp.

SITE: 163-05 Archer Avenue, Queens, NY

CONTRACTOR: Zebra Environmental Corp.

DEPTH DRILLED: 10 feet

DEPTH TO WATER: NA

DRILLING METHOD: Direct push with 5' macro cores

SOIL SAMPLING DEVICE: Track mount Geoprobe™ 7720 DT

<i>Depth (feet)</i>	<i>Sample #</i>	<i>RECOVERY (inches)</i>	<i>PID Readings (ppm)</i>	<i>Sample Description</i>
0' – 5'	B-6 (3'-5')	40"	0.0	0" – 6" Black asphalt; 6" – 35" Brown to grey-brown mostly silty clay with some fine grained sand; 35" – 40" Brown mostly medium and fine grained sand.
5' – 10'		36"	0.0	0" – 36" Brown mostly medium and fine grained sand.

BORING LOG

BORING #: B-7

PAGE 1 of 1

DATE: 5/30/2014

CLIENT: United Construction &
Development Group Corp.

SITE: 163-05 Archer Avenue, Queens, NY

CONTRACTOR: Zebra Environmental Corp.

DEPTH DRILLED: 4 feet

DEPTH TO WATER: NA

DRILLING METHOD: Hand Auger

SOIL SAMPLING DEVICE: 4" diameter hand auger

<i>Depth (feet)</i>	<i>Sample #</i>	<i>RECOVERY (inches)</i>	<i>PID Readings (ppm)</i>	<i>Sample Description</i>
0' – 1'		NA	0.0	0" – 8" Concrete core; 8" – 12" Yellow-brown, mostly medium grained sand with some fine grained sand, few coarse grained sand and trace gravel.
1' – 2'		NA	0.0	Yellow-brown, mostly medium grained sand with some fine grained sand, few coarse grained sand and trace gravel
2' – 3'		NA	0.0	Yellow-brown, mostly medium grained sand with some fine grained sand, few coarse grained sand and trace gravel
3' – 4'	B-7 (3-4')	NA	0.0	Yellow-brown, mostly medium grained sand with some fine grained sand, few coarse grained sand and trace gravel

BORING LOG

BORING #: B-8

PAGE 1 of 1

DATE: 5/30/2014

CLIENT: United Construction &
Development Group Corp.

SITE: 163-05 Archer Avenue, Queens, NY

CONTRACTOR: Zebra Environmental Corp.

DEPTH DRILLED: 4 feet

DEPTH TO WATER: NA

DRILLING METHOD: Hand Auger

SOIL SAMPLING DEVICE: 4" diameter hand auger

<i>Depth (feet)</i>	<i>Sample #</i>	<i>RECOVERY (inches)</i>	<i>PID Readings (ppm)</i>	<i>Sample Description</i>
0' – 1'		NA	0.0	0" – 8" Concrete core; 8" – 12" Yellow-brown, mostly medium grained sand with some fine grained sand, few coarse grained sand and trace gravel.
1' – 2'		NA	0.0	Yellow-brown, mostly medium grained sand with some fine grained sand, few coarse grained sand and trace gravel
2' – 3'		NA	0.0	Yellow-brown, mostly medium grained sand with some fine grained sand, few coarse grained sand and trace gravel
3' – 4'	B-8 (3-4')	NA	0.0	Yellow-brown, mostly medium grained sand with some fine grained sand, few coarse grained sand and trace gravel

**ATTACHMENT C
ANALYTICAL DATA AND REPORT**



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

June 04, 2014

Jim DeMartinis
J.R. Holzmacher P.E. LLC
3555 Veterans Memorial Hwy., Suite A
Ronkonkoma, NY 11788
TEL: (631) 234-2220
FAX (631) 234-2221

RE: Gertz Plaza, 163-05 & 163-27 Archer Ave.,

Order No.: 1406001

Dear Jim DeMartinis:

American Analytical Laboratories, LLC. received 8 sample(s) on 5/30/2014 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Workorder Sample Summary

WO#: 1406001

04-Jun-14

CLIENT: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1406001-001A	B-1 (4')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-001B	B-1 (4')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-002A	B-2 (6')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-002B	B-2 (6')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-003A	B-3 (3-5')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-003B	B-3 (3-5')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-004A	B-4 (3-5')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-005A	B-5 (3-5')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-005B	B-5 (3-5')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-006A	B-6 (3-5')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-007A	B-7 (3-4')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-007B	B-7 (3-4')		5/30/2014	5/30/2014 4:34:00 PM	Soil
1406001-008A	B-8 (3-4')		5/30/2014	5/30/2014 4:34:00 PM	Soil



CHAIN OF CUSTODY

56 Toledo Street, Farmingdale NY 11735
 (T) 631-454-6100 (F) 631-454-8027
 www.american-analytical.com

CERTIFICATIONS
 NY ELAP - 11418 PA DEP - 68-00573
 NJ DEP - NY050 CT DOH - PH-0205

Client Information
 Company Name: JR HOLZMACHER
 Address: 3555 VETERANS MEMORIAL HWY
 City: ROCKY HILL State: CT Zip: 06151
 Project Contact: JIM DE MARTINIS
 Phone #: 631-234-2220
 E-mail:

Project Information
 Project Name: GERTZ PLAZA
 Street: 163-05 & 163-27 ARCHER AVE
 City: JAMAICA State: NY Zip:
 Project #:
 Sampler's Name / Company: PHIL BOFFLER / JTKA
 Sampler's Signature: *[Signature]*

LAB SAMPLE # (LAB USE ONLY)	Sample Information			Sample Collection			Sample Containers							
	Client Sample ID	Sample Type	Matrix Code	Date	Time	Glass / Plastic	Total # of bottles	NONE	HCl	HNO ₃	H ₂ SO ₄	NaHSO ₄	MeOH	OTHER
140600	B-1 (4)	G	S	5/30/14		G		X						
003AB	B-2 (6)													
003AB	B-3 (3-5)													
004A	B-4 (3-5)													
005AB	B-5 (3-5)													
006A	B-6 (3-5)													
007AB	B-7 (3-4)													
008A	B-8 (3-4)													

Turnaround Time (Business Days)
 7-10 Business Days
 5 Day RUSH
 4 Day RUSH

Standard
 3 Day RUSH
 2 Day RUSH
 1 Day RUSH

SAMPLE TYPE
 G = Grab
 C = Composite
 B = Blank

MATRIX CODES
 L = Liquid
 S = Soil
 O = Oil
 W = Wipe
 M = Miscellaneous

RECEIVED BY LAB (SIGNATURE) *[Signature]* **RECEIVED BY LAB (SIGNATURE)** *[Signature]*
DATE 5/30/14 **DATE** 5/30/14
TIME **TIME** 16:34

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

RELINQUISHED BY (SIGNATURE) *[Signature]* **PRINTED NAME** Phil Boffler
DATE 5/30/14 **TIME** 16:34

RECEIVED BY (SIGNATURE) *[Signature]* **PRINTED NAME** Catherine
DATE 5/30/14 **TIME** 16:34

COOLER TEMP: 4.9

Analytical Information

Sample ID	Matrix	Container	Volume	Notes
140600	S	G		VOL (FULL)
003AB				SOL (CR-5)
003AB				BACK METALS
004A				
005AB				
006A				
007AB				
008A				



American Analytical Laboratories, LLC.
 56 Toledo Street
 Farmingdale, New York 11735
 TEL: (631) 454-6100 FAX: (631) 454-8027
 Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **HOLZMACHER**

Work Order Number: **1406001**

RcptNo: **1**

Logged by: Cate Ferrara	5/30/2014 4:34:00 PM	<i>C Ferrara</i>
Completed By: Cate Ferrara	6/2/2014	<i>C Ferrara</i>
Reviewed By: Lori Beyer	6/2/2014 10:51:30 AM	<i>Lori Beyer</i>

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:
 Samples not collected according to Method 5035A.

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
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56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Case Narrative

WO#: 1406001
Date: 6/4/2014

CLIENT: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers. Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results.

Volatile LCS are analyzed with preservatives - HCL/NaHSO₄/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl Acetate, n-Butyl Acetate, n-Propyl Acetate. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Isopropyl Acetate, n-Amyl acetate, n-Butyl Acetate, n-Propyl Acetate. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram .Lachat 10-107-6-1B Ammonia in Soil, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Percent Moisture, SM 4500-SO₃ B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTM C1152, Water Soluble Chloride by ASTM C1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. Or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.



American Analytical Laboratories, LLC.
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Farmingdale, New York 11735
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Website: www.American-Analytical.com

Definition Only

WO#: 1406001
Date: 6/4/2014

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports

ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.

m - Analyte was manually integrated for GC/MS.

+ - Concentration exceeds regulatory level for TCLP

ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-1 (4')
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-001A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
1,1,1,2-Tetrachloroethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,1,1-Trichloroethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,1,2,2-Tetrachloroethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,1,2-Trichloroethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,1-Dichloroethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,1-Dichloroethene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,1-Dichloropropene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2,3-Trichlorobenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2,3-Trichloropropane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2,4,5-Tetramethylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2,4-Trichlorobenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2,4-Trimethylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2-Dibromo-3-chloropropane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2-Dibromoethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2-Dichlorobenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2-Dichloroethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,2-Dichloropropane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,3,5-Trimethylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,3-Dichlorobenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,3-dichloropropane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,4-Dichlorobenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
1,4-Dioxane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
2,2-Dichloropropane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
2-Butanone	ND	4.9	9.9	U*	µg/Kg-dry	1	6/3/2014 7:56:00 AM
2-Chloroethyl vinyl ether	ND	0.99	4.9	U*	µg/Kg-dry	1	6/3/2014 7:56:00 AM
2-Chlorotoluene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
2-Hexanone	ND	4.9	9.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
2-Propanol	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
4-Chlorotoluene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
4-Isopropyltoluene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
4-Methyl-2-pentanone	ND	4.9	9.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Acetone	2.2	1.2	9.9	BJ*	µg/Kg-dry	1	6/3/2014 7:56:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735
 Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: B-1 (4')

Lab Order: 1406001

Collection Date: 5/30/2014

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

Matrix: SOIL

Lab ID: 1406001-001A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
Benzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Bromobenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Bromochloromethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Bromodichloromethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Bromoform	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Bromomethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Carbon disulfide	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Carbon tetrachloride	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Chlorobenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Chlorodifluoromethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Chloroethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Chloroform	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Chloromethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
cis-1,2-Dichloroethene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
cis-1,3-Dichloropropene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Cyclohexane	ND	2	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Dibromochloromethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Dibromomethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Dichlorodifluoromethane	ND	0.99	4.9	U*	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Diisopropyl ether	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Ethanol	ND	9.9	20	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Ethylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Freon-114	ND	0.99	4.9	U*	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Hexachlorobutadiene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Isopropylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
m,p-Xylene	ND	2	9.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Methyl Acetate	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Methyl tert-butyl ether	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Methylene chloride	4.9	0.99	4.9	BJ*	µg/Kg-dry	1	6/3/2014 7:56:00 AM
n-Butylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
n-Propylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Naphthalene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
o-Xylene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735

Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: B-1 (4')

Lab Order: 1406001

Collection Date: 5/30/2014

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

Matrix: SOIL

Lab ID: 1406001-001A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
			SW8260C		SW5035A		Analyst: LA
p-Diethylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
p-Ethyltoluene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
sec-Butylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Styrene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
t-Butyl alcohol	ND	2.5	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
tert-Butylbenzene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Tetrachloroethene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Toluene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
trans-1,2-Dichloroethene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
trans-1,3-Dichloropropene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Trichloroethene	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Trichlorofluoromethane	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Vinyl acetate	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Vinyl chloride	ND	0.99	4.9	U	µg/Kg-dry	1	6/3/2014 7:56:00 AM
Surr: 4-Bromofluorobenzene	94.9	0	56-133		%REC	1	6/3/2014 7:56:00 AM
Surr: Dibromofluoromethane	96.8	0	60-132		%REC	1	6/3/2014 7:56:00 AM
Surr: Toluene-d8	99.0	0	69-125		%REC	1	6/3/2014 7:56:00 AM



ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-1 (4')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-001B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY							Analyst: JP
Mercury	ND	0.008	0.0120	U	mg/Kg-dry	1	6/4/2014 9:44:28 AM
PERCENT MOISTURE							Analyst: CF
Percent Moisture	1.9	1	1.0		wt%	1	6/3/2014 4:26:41 PM
TOTAL METALS							Analyst: JP
Arsenic	1.13	0.20	0.506		mg/Kg-dry	1	6/3/2014 12:32:03 PM
Barium	19.1	0.20	0.405		mg/Kg-dry	1	6/3/2014 12:32:03 PM
Cadmium	ND	0.10	0.405	U	mg/Kg-dry	1	6/3/2014 12:32:03 PM
Chromium	10.2	0.10	0.405		mg/Kg-dry	1	6/3/2014 12:32:03 PM
Lead	3.16	0.20	0.405		mg/Kg-dry	1	6/3/2014 12:32:03 PM
Selenium	ND	0.20	0.506	U	mg/Kg-dry	1	6/3/2014 12:32:03 PM
Silver	ND	0.10	0.405	U	mg/Kg-dry	1	6/3/2014 12:32:03 PM



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-2 (6)
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-002A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
1,1,1,2-Tetrachloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,1,1-Trichloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,1,2,2-Tetrachloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,1,2-Trichloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,1-Dichloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,1-Dichloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,1-Dichloropropene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2,3-Trichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2,3-Trichloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2,4,5-Tetramethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2,4-Trichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2,4-Trimethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2-Dibromo-3-chloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2-Dibromoethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2-Dichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2-Dichloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,2-Dichloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,3,5-Trimethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,3-Dichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,3-dichloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,4-Dichlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
1,4-Dioxane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
2,2-Dichloropropane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
2-Butanone	ND	5.3	11	U*	µg/Kg-dry	1	6/3/2014 8:24:00 AM
2-Chloroethyl vinyl ether	ND	1.1	5.3	U*	µg/Kg-dry	1	6/3/2014 8:24:00 AM
2-Chlorotoluene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
2-Hexanone	ND	5.3	11	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
2-Propanol	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
4-Chlorotoluene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
4-Isopropyltoluene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
4-Methyl-2-pentanone	ND	5.3	11	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Acetone	ND	1.3	11	U*	µg/Kg-dry	1	6/3/2014 8:24:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735
 Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-2 (6)
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-002A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
			SW8260C		SW5035A		Analyst: LA
Benzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Bromobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Bromochloromethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Bromodichloromethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Bromoform	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Bromomethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Carbon disulfide	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Carbon tetrachloride	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Chlorobenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Chlorodifluoromethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Chloroethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Chloroform	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Chloromethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
cis-1,2-Dichloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
cis-1,3-Dichloropropene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Cyclohexane	ND	2.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Dibromochloromethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Dibromomethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Dichlorodifluoromethane	ND	1.1	5.3	U*	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Diisopropyl ether	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Ethanol	ND	11	21	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Ethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Freon-114	ND	1.1	5.3	U*	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Hexachlorobutadiene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Isopropylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
m,p-Xylene	ND	2.1	11	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Methyl Acetate	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Methyl tert-butyl ether	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Methylene chloride	5.2	1.1	5.3	BJ*	µg/Kg-dry	1	6/3/2014 8:24:00 AM
n-Butylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
n-Propylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Naphthalene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
o-Xylene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735
 Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: B-2 (6')

Lab Order: 1406001

Collection Date: 5/30/2014

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

Matrix: SOIL

Lab ID: 1406001-002A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
			SW8260C		SW5035A		Analyst: LA
p-Diethylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
p-Ethyltoluene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
sec-Butylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Styrene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
t-Butyl alcohol	ND	2.6	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
tert-Butylbenzene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Tetrachloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Toluene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
trans-1,2-Dichloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
trans-1,3-Dichloropropene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Trichloroethene	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Trichlorofluoromethane	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Vinyl acetate	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Vinyl chloride	ND	1.1	5.3	U	µg/Kg-dry	1	6/3/2014 8:24:00 AM
Surr: 4-Bromofluorobenzene	95.5	0	56-133		%REC	1	6/3/2014 8:24:00 AM
Surr: Dibromofluoromethane	99.2	0	60-132		%REC	1	6/3/2014 8:24:00 AM
Surr: Toluene-d8	98.6	0	69-125		%REC	1	6/3/2014 8:24:00 AM



ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-2 (6')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-002B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE							
			D2216				Analyst: CF
Percent Moisture	4.6	1	1.0		wt%	1	6/3/2014 2:46:41 PM
SEMIVOLATILE SW-846 METHOD 8270							
			SW8270D				Analyst: MH
			SW3546				
Acenaphthene	ND	26.1	260	U	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Acenaphthylene	ND	26.1	260	U	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Anthracene	ND	26.1	260	Um	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Benzo(a)anthracene	45	26.1	260	J	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Benzo(a)pyrene	37	26.1	160	J	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Benzo(b)fluoranthene	40	26.1	260	J	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Benzo(g,h,i)perylene	29	26.1	260	J	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Benzo(k)fluoranthene	38	26.1	260	Jm	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Chrysene	52	26.1	260	J	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Dibenzo(a,h)anthracene	ND	26.1	160	Um	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Fluoranthene	94	26.1	260	J	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Fluorene	ND	26.1	260	U	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Indeno(1,2,3-c,d)pyrene	27	26.1	260	J	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Phenanthrene	68	26.1	260	J	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Pyrene	77	26.1	260	J	µg/Kg-dry	1	6/3/2014 2:45:00 PM
Surr: 2-Fluorobiphenyl	86.0	0	21-143		%REC	1	6/3/2014 2:45:00 PM
Surr: 4-Terphenyl-d14	84.2	0	15-137		%REC	1	6/3/2014 2:45:00 PM
Surr: Nitrobenzene-d5	69.4	0	17-136		%REC	1	6/3/2014 2:45:00 PM



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-3 (3-5')
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-003A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
1,1,1,2-Tetrachloroethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,1,1-Trichloroethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,1,2,2-Tetrachloroethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,1,2-Trichloroethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,1-Dichloroethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,1-Dichloroethene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,1-Dichloropropene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2,3-Trichlorobenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2,3-Trichloropropane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2,4,5-Tetramethylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2,4-Trichlorobenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2,4-Trimethylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2-Dibromo-3-chloropropane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2-Dibromoethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2-Dichlorobenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2-Dichloroethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,2-Dichloropropane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,3,5-Trimethylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,3-Dichlorobenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,3-dichloropropane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,4-Dichlorobenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
1,4-Dioxane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
2,2-Dichloropropane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
2-Butanone	ND	5.2	10	U*	µg/Kg-dry	1	6/3/2014 8:52:00 AM
2-Chloroethyl vinyl ether	ND	1	5.2	U*	µg/Kg-dry	1	6/3/2014 8:52:00 AM
2-Chlorotoluene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
2-Hexanone	ND	5.2	10	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
2-Propanol	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
4-Chlorotoluene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
4-Isopropyltoluene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
4-Methyl-2-pentanone	ND	5.2	10	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Acetone	1.6	1.3	10	BJ*	µg/Kg-dry	1	6/3/2014 8:52:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735
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ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-3 (3-5')
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-003A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
Benzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Bromobenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Bromochloromethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Bromodichloromethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Bromoform	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Bromomethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Carbon disulfide	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Carbon tetrachloride	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Chlorobenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Chlorodifluoromethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Chloroethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Chloroform	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Chloromethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
cis-1,2-Dichloroethene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
cis-1,3-Dichloropropene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Cyclohexane	ND	2.1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Dibromochloromethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Dibromomethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Dichlorodifluoromethane	ND	1	5.2	U*	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Diisopropyl ether	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Ethanol	ND	10	21	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Ethylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Freon-114	ND	1	5.2	U*	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Hexachlorobutadiene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Isopropylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
m,p-Xylene	ND	2.1	10	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Methyl Acetate	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Methyl tert-butyl ether	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Methylene chloride	5.6	1	5.2	B*	µg/Kg-dry	1	6/3/2014 8:52:00 AM
n-Butylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
n-Propylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Naphthalene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
o-Xylene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM

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ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: B-3 (3-5')

Lab Order: 1406001

Collection Date: 5/30/2014

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

Matrix: SOIL

Lab ID: 1406001-003A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
			SW8260C		SW5035A		Analyst: LA
p-Diethylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
p-Ethyltoluene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
sec-Butylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Styrene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
t-Butyl alcohol	ND	2.6	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
tert-Butylbenzene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Tetrachloroethene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Toluene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
trans-1,2-Dichloroethene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
trans-1,3-Dichloropropene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Trichloroethene	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Trichlorofluoromethane	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Vinyl acetate	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Vinyl chloride	ND	1	5.2	U	µg/Kg-dry	1	6/3/2014 8:52:00 AM
Surr: 4-Bromofluorobenzene	92.4	0	56-133		%REC	1	6/3/2014 8:52:00 AM
Surr: Dibromofluoromethane	98.1	0	60-132		%REC	1	6/3/2014 8:52:00 AM
Surr: Toluene-d8	98.7	0	69-125		%REC	1	6/3/2014 8:52:00 AM



ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-3 (3-5')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-003B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY							
Mercury	0.0295	0.009	0.0129		mg/Kg-dry	1	6/4/2014 9:46:38 AM
							Analyst: JP
PERCENT MOISTURE							
Percent Moisture	6.7	1	1.0		wt%	1	6/3/2014 4:26:41 PM
							Analyst: CF
TOTAL METALS							
Arsenic	1.42	0.21	0.533		mg/Kg-dry	1	6/3/2014 12:34:05 PM
Barium	21.0	0.21	0.427		mg/Kg-dry	1	6/3/2014 12:34:05 PM
Cadmium	ND	0.11	0.427	U	mg/Kg-dry	1	6/3/2014 12:34:05 PM
Chromium	7.69	0.11	0.427		mg/Kg-dry	1	6/3/2014 12:34:05 PM
Lead	10.7	0.21	0.427		mg/Kg-dry	1	6/3/2014 12:34:05 PM
Selenium	ND	0.21	0.533	U	mg/Kg-dry	1	6/3/2014 12:34:05 PM
Silver	ND	0.11	0.427	U	mg/Kg-dry	1	6/3/2014 12:34:05 PM



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: B-4 (3-5')

Lab Order: 1406001

Collection Date: 5/30/2014

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

Matrix: SOIL

Lab ID: 1406001-004A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			D2216				Analyst: CF
Percent Moisture	4.1	1	1.0		wt%	1	6/3/2014 4:26:41 PM
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
1,1,1,2-Tetrachloroethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,1,1-Trichloroethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,1,2,2-Tetrachloroethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,1,2-Trichloroethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,1-Dichloroethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,1-Dichloroethene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,1-Dichloropropene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2,3-Trichlorobenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2,3-Trichloropropane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2,4,5-Tetramethylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2,4-Trichlorobenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2,4-Trimethylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2-Dibromo-3-chloropropane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2-Dibromoethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2-Dichlorobenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2-Dichloroethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,2-Dichloropropane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,3,5-Trimethylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,3-Dichlorobenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,3-dichloropropane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,4-Dichlorobenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
1,4-Dioxane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
2,2-Dichloropropane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
2-Butanone	ND	5.1	10	U*	µg/Kg-dry	1	6/3/2014 9:19:00 AM
2-Chloroethyl vinyl ether	ND	1	5.1	U*	µg/Kg-dry	1	6/3/2014 9:19:00 AM
2-Chlorotoluene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
2-Hexanone	ND	5.1	10	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
2-Propanol	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
4-Chlorotoluene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM

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ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-4 (3-5')
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-004A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
4-Isopropyltoluene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
4-Methyl-2-pentanone	ND	5.1	10	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Acetone	2.1	1.3	10	BJ*	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Benzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Bromobenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Bromochloromethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Bromodichloromethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Bromoform	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Bromomethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Carbon disulfide	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Carbon tetrachloride	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Chlorobenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Chlorodifluoromethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Chloroethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Chloroform	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Chloromethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
cis-1,2-Dichloroethene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
cis-1,3-Dichloropropene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Cyclohexane	ND	2	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Dibromochloromethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Dibromomethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Dichlorodifluoromethane	ND	1	5.1	U*	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Diisopropyl ether	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Ethanol	ND	10	20	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Ethylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Freon-114	ND	1	5.1	U*	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Hexachlorobutadiene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Isopropylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
m,p-Xylene	ND	2	10	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Methyl Acetate	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Methyl tert-butyl ether	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Methylene chloride	4.9	1	5.1	BJ*	µg/Kg-dry	1	6/3/2014 9:19:00 AM
n-Butylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM

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ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-4 (3-5')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-004A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
n-Propylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Naphthalene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
o-Xylene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
p-Diethylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
p-Ethyltoluene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
sec-Butylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Styrene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
t-Butyl alcohol	ND	2.5	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
tert-Butylbenzene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Tetrachloroethene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Toluene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
trans-1,2-Dichloroethene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
trans-1,3-Dichloropropene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Trichloroethene	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Trichlorofluoromethane	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Vinyl acetate	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Vinyl chloride	ND	1	5.1	U	µg/Kg-dry	1	6/3/2014 9:19:00 AM
Surr: 4-Bromofluorobenzene	94.6	0	56-133		%REC	1	6/3/2014 9:19:00 AM
Surr: Dibromofluoromethane	100	0	60-132		%REC	1	6/3/2014 9:19:00 AM
Surr: Toluene-d8	98.7	0	69-125		%REC	1	6/3/2014 9:19:00 AM



ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-5 (3-5')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-005A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
1,1,1,2-Tetrachloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,1,1-Trichloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,1,2,2-Tetrachloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,1,2-Trichloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,1-Dichloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,1-Dichloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,1-Dichloropropene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2,3-Trichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2,3-Trichloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2,4,5-Tetramethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2,4-Trichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2,4-Trimethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2-Dibromo-3-chloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2-Dibromoethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2-Dichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2-Dichloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,2-Dichloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,3,5-Trimethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,3-Dichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,3-dichloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,4-Dichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
1,4-Dioxane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
2,2-Dichloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
2-Butanone	ND	5.4	11	U*	µg/Kg-dry	1	6/3/2014 9:47:00 AM
2-Chloroethyl vinyl ether	ND	1.1	5.4	U*	µg/Kg-dry	1	6/3/2014 9:47:00 AM
2-Chlorotoluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
2-Hexanone	ND	5.4	11	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
2-Propanol	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
4-Chlorotoluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
4-Isopropyltoluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
4-Methyl-2-pentanone	ND	5.4	11	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Acetone	1.4	1.3	11	BJ*	µg/Kg-dry	1	6/3/2014 9:47:00 AM

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ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: B-5 (3-5')

Lab Order: 1406001

Collection Date: 5/30/2014

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

Matrix: SOIL

Lab ID: 1406001-005A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
			SW8260C		SW5035A		Analyst: LA
Benzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Bromobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Bromochloromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Bromodichloromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Bromoform	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Bromomethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Carbon disulfide	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Carbon tetrachloride	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Chlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Chlorodifluoromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Chloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Chloroform	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Chloromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
cis-1,2-Dichloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
cis-1,3-Dichloropropene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Cyclohexane	ND	2.2	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Dibromochloromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Dibromomethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Dichlorodifluoromethane	ND	1.1	5.4	U*	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Diisopropyl ether	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Ethanol	ND	11	22	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Ethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Freon-114	ND	1.1	5.4	U*	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Hexachlorobutadiene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Isopropylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
m,p-Xylene	ND	2.2	11	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Methyl Acetate	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Methyl tert-butyl ether	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Methylene chloride	5.3	1.1	5.4	BJ*	µg/Kg-dry	1	6/3/2014 9:47:00 AM
n-Butylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
n-Propylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Naphthalene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
o-Xylene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735

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ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-5 (3-5')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-005A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							Analyst: LA
			SW8260C		SW5035A		
p-Diethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
p-Ethyltoluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
sec-Butylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Styrene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
t-Butyl alcohol	ND	2.7	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
tert-Butylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Tetrachloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Toluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
trans-1,2-Dichloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
trans-1,3-Dichloropropene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Trichloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Trichlorofluoromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Vinyl acetate	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Vinyl chloride	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 9:47:00 AM
Surr: 4-Bromofluorobenzene	94.8	0	56-133		%REC	1	6/3/2014 9:47:00 AM
Surr: Dibromofluoromethane	98.4	0	60-132		%REC	1	6/3/2014 9:47:00 AM
Surr: Toluene-d8	99.0	0	69-125		%REC	1	6/3/2014 9:47:00 AM



ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-5 (3-5')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-005B		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY							Analyst: JP
Mercury	ND	0.009	0.0130	U	mg/Kg-dry	1	6/4/2014 9:48:47 AM
PERCENT MOISTURE							Analyst: CF
Percent Moisture	8.7	1	1.0		wt%	1	6/3/2014 4:26:41 PM
TOTAL METALS							Analyst: JP
Arsenic	1.13	0.22	0.539		mg/Kg-dry	1	6/3/2014 12:36:06 PM
Barium	30.9	0.22	0.431		mg/Kg-dry	1	6/3/2014 12:36:06 PM
Cadmium	ND	0.11	0.431	U	mg/Kg-dry	1	6/3/2014 12:36:06 PM
Chromium	12.9	0.11	0.431		mg/Kg-dry	1	6/3/2014 12:36:06 PM
Lead	4.76	0.22	0.431		mg/Kg-dry	1	6/3/2014 12:36:06 PM
Selenium	ND	0.22	0.539	U	mg/Kg-dry	1	6/3/2014 12:36:06 PM
Silver	ND	0.11	0.431	U	mg/Kg-dry	1	6/3/2014 12:36:06 PM



ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-6 (3-5')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-006A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE			D2216				Analyst: CF
Percent Moisture	8.3	1	1.0		wt%	1	6/3/2014 4:26:41 PM
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
1,1,1,2-Tetrachloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,1,1-Trichloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,1,2,2-Tetrachloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,1,2-Trichloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,1-Dichloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,1-Dichloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,1-Dichloropropene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2,3-Trichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2,3-Trichloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2,4,5-Tetramethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2,4-Trichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2,4-Trimethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2-Dibromo-3-chloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2-Dibromoethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2-Dichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2-Dichloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,2-Dichloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,3,5-Trimethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,3-Dichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,3-dichloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,4-Dichlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
1,4-Dioxane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
2,2-Dichloropropane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
2-Butanone	ND	5.4	11	U*	µg/Kg-dry	1	6/3/2014 10:15:00 AM
2-Chloroethyl vinyl ether	ND	1.1	5.4	U*	µg/Kg-dry	1	6/3/2014 10:15:00 AM
2-Chlorotoluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
2-Hexanone	ND	5.4	11	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
2-Propanol	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
4-Chlorotoluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM

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ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-6 (3-5')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-006A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
4-Isopropyltoluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
4-Methyl-2-pentanone	ND	5.4	11	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Acetone	ND	1.4	11	U*	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Benzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Bromobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Bromochloromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Bromodichloromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Bromoform	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Bromomethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Carbon disulfide	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Carbon tetrachloride	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Chlorobenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Chlorodifluoromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Chloroethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Chloroform	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Chloromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
cis-1,2-Dichloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
cis-1,3-Dichloropropene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Cyclohexane	ND	2.2	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Dibromochloromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Dibromomethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Dichlorodifluoromethane	ND	1.1	5.4	U*	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Diisopropyl ether	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Ethanol	ND	11	22	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Ethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Freon-114	ND	1.1	5.4	U*	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Hexachlorobutadiene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Isopropylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
m,p-Xylene	ND	2.2	11	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Methyl Acetate	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Methyl tert-butyl ether	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Methylene chloride	5.2	1.1	5.4	BJ*	µg/Kg-dry	1	6/3/2014 10:15:00 AM
n-Butylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM

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ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-6 (3-5')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-006A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
			SW8260C		SW5035A		Analyst: LA
n-Propylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Naphthalene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
o-Xylene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
p-Diethylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
p-Ethyltoluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
sec-Butylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Styrene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
t-Butyl alcohol	ND	2.7	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
tert-Butylbenzene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Tetrachloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Toluene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
trans-1,2-Dichloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
trans-1,3-Dichloropropene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Trichloroethene	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Trichlorofluoromethane	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Vinyl acetate	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Vinyl chloride	ND	1.1	5.4	U	µg/Kg-dry	1	6/3/2014 10:15:00 AM
Surr: 4-Bromofluorobenzene	94.1	0	56-133		%REC	1	6/3/2014 10:15:00 AM
Surr: Dibromofluoromethane	99.5	0	60-132		%REC	1	6/3/2014 10:15:00 AM
Surr: Toluene-d8	99.6	0	69-125		%REC	1	6/3/2014 10:15:00 AM



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-7 (3-4')
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-007A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
1,1,1,2-Tetrachloroethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,1,1-Trichloroethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,1,2-Trichloroethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,1-Dichloroethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,1-Dichloroethene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,1-Dichloropropene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2,3-Trichlorobenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2,3-Trichloropropane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2,4,5-Tetramethylbenzene	ND	1.00	5.0	U*	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2,4-Trichlorobenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2,4-Trimethylbenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2-Dibromoethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2-Dichlorobenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2-Dichloroethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,2-Dichloropropane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,3,5-Trimethylbenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,3-Dichlorobenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,3-dichloropropane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,4-Dichlorobenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
1,4-Dioxane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
2,2-Dichloropropane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
2-Butanone	ND	5.01	10	U*	µg/Kg-dry	1	6/3/2014 2:52:00 PM
2-Chloroethyl vinyl ether	ND	1.00	5.0	U*	µg/Kg-dry	1	6/3/2014 2:52:00 PM
2-Chlorotoluene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
2-Hexanone	ND	5.01	10	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
2-Propanol	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
4-Chlorotoluene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
4-Isopropyltoluene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
4-Methyl-2-pentanone	ND	5.01	10	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Acetone	1.5	1.25	10	BJ*	µg/Kg-dry	1	6/3/2014 2:52:00 PM

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ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-7 (3-4')
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-007A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
Benzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Bromobenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Bromochloromethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Bromodichloromethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Bromoform	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Bromomethane	ND	1.00	5.0	U*	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Carbon disulfide	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Carbon tetrachloride	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Chlorobenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Chlorodifluoromethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Chloroethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Chloroform	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Chloromethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
cis-1,2-Dichloroethene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
cis-1,3-Dichloropropene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Cyclohexane	ND	2.01	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Dibromochloromethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Dibromomethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Dichlorodifluoromethane	ND	1.00	5.0	U*	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Diisopropyl ether	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Ethanol	ND	10.0	20	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Ethylbenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Freon-114	ND	1.00	5.0	U*	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Hexachlorobutadiene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Isopropylbenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
m,p-Xylene	ND	2.01	10	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Methyl Acetate	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Methyl tert-butyl ether	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Methylene chloride	4.6	1.00	5.0	BJ*	µg/Kg-dry	1	6/3/2014 2:52:00 PM
n-Butylbenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
n-Propylbenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Naphthalene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
o-Xylene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM

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ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-7 (3-4')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-007A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
			SW8260C		SW5035A		Analyst: LA
p-Diethylbenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
p-Ethyltoluene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
sec-Butylbenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Styrene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
t-Butyl alcohol	ND	2.51	5.0	U*	µg/Kg-dry	1	6/3/2014 2:52:00 PM
tert-Butylbenzene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Tetrachloroethene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Toluene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
trans-1,2-Dichloroethene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
trans-1,3-Dichloropropene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Trichloroethene	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Trichlorofluoromethane	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Vinyl acetate	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Vinyl chloride	ND	1.00	5.0	U	µg/Kg-dry	1	6/3/2014 2:52:00 PM
Surr: 4-Bromofluorobenzene	95.2	0	56-133		%REC	1	6/3/2014 2:52:00 PM
Surr: Dibromofluoromethane	99.2	0	60-132		%REC	1	6/3/2014 2:52:00 PM
Surr: Toluene-d8	99.0	0	69-125		%REC	1	6/3/2014 2:52:00 PM



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC

Client Sample ID: B-7 (3-4')

Lab Order: 1406001

Collection Date: 5/30/2014

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

Matrix: SOIL

Lab ID: 1406001-007B

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
MERCURY							
			SW7471B		SW7471B		Analyst: JP
Mercury	ND	0.008	0.0119	U	mg/Kg-dry	1	6/4/2014 9:50:57 AM
PERCENT MOISTURE							
			D2216				Analyst: CF
Percent Moisture	2.1	1	1.0		wt%	1	6/3/2014 4:26:41 PM
TOTAL METALS							
			SW6010C		SW3050B		Analyst: JP
Arsenic	0.601	0.2	0.497		mg/Kg-dry	1	6/3/2014 12:38:07 PM
Barium	15.3	0.2	0.397		mg/Kg-dry	1	6/3/2014 12:38:07 PM
Cadmium	ND	0.1	0.397	U	mg/Kg-dry	1	6/3/2014 12:38:07 PM
Chromium	5.84	0.1	0.397		mg/Kg-dry	1	6/3/2014 12:38:07 PM
Lead	2.67	0.2	0.397		mg/Kg-dry	1	6/3/2014 12:38:07 PM
Selenium	ND	0.2	0.497	U	mg/Kg-dry	1	6/3/2014 12:38:07 PM
Silver	ND	0.1	0.397	U	mg/Kg-dry	1	6/3/2014 12:38:07 PM



ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-8 (3-4')
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-008A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
PERCENT MOISTURE					D2216		Analyst: CF
Percent Moisture	4.3	1	1.0		wt%	1	6/3/2014 4:26:41 PM
VOLATILE SW-846 METHOD 8260					SW8260C		Analyst: LA
					SW5035A		
1,1,1,2-Tetrachloroethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,1,1-Trichloroethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,1,2,2-Tetrachloroethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,1,2-Trichloroethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,1-Dichloroethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,1-Dichloroethene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,1-Dichloropropene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2,3-Trichlorobenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2,3-Trichloropropane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2,4,5-Tetramethylbenzene	ND	1.03	5.1	U*	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2,4-Trichlorobenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2,4-Trimethylbenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2-Dibromo-3-chloropropane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2-Dibromoethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2-Dichlorobenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2-Dichloroethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,2-Dichloropropane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,3,5-Trimethylbenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,3-Dichlorobenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,3-dichloropropane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,4-Dichlorobenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
1,4-Dioxane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
2,2-Dichloropropane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
2-Butanone	ND	5.14	10	U*	µg/Kg-dry	1	6/3/2014 3:20:00 PM
2-Chloroethyl vinyl ether	ND	1.03	5.1	U*	µg/Kg-dry	1	6/3/2014 3:20:00 PM
2-Chlorotoluene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
2-Hexanone	ND	5.14	10	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
2-Propanol	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
4-Chlorotoluene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM

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ELAP ID : 11418

CLIENT: J.R. Holzmacher P.E. LLC Client Sample ID: B-8 (3-4')
 Lab Order: 1406001 Collection Date: 5/30/2014
 Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam Matrix: SOIL
 Lab ID: 1406001-008A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260			SW8260C		SW5035A		Analyst: LA
4-Isopropyltoluene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
4-Methyl-2-pentanone	ND	5.14	10	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Acetone	1.8	1.29	10	BJ*	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Benzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Bromobenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Bromochloromethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Bromodichloromethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Bromoform	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Bromomethane	ND	1.03	5.1	U*	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Carbon disulfide	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Carbon tetrachloride	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Chlorobenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Chlorodifluoromethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Chloroethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Chloroform	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Chloromethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
cis-1,2-Dichloroethene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
cis-1,3-Dichloropropene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Cyclohexane	ND	2.06	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Dibromochloromethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Dibromomethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Dichlorodifluoromethane	ND	1.03	5.1	U*	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Diisopropyl ether	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Ethanol	ND	10.3	21	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Ethylbenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Freon-114	ND	1.03	5.1	U*	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Hexachlorobutadiene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Isopropylbenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
m,p-Xylene	ND	2.06	10	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Methyl Acetate	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Methyl tert-butyl ether	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Methylene chloride	5.1	1.03	5.1	BJ*	µg/Kg-dry	1	6/3/2014 3:20:00 PM
n-Butylbenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM

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ELAP ID : 11418

CLIENT:	J.R. Holzmacher P.E. LLC	Client Sample ID:	B-8 (3-4')
Lab Order:	1406001	Collection Date:	5/30/2014
Project:	Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam	Matrix:	SOIL
Lab ID:	1406001-008A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260							
			SW8260C		SW5035A		Analyst: LA
n-Propylbenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Naphthalene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
o-Xylene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
p-Diethylbenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
p-Ethyltoluene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
sec-Butylbenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Styrene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
t-Butyl alcohol	ND	2.57	5.1	U*	µg/Kg-dry	1	6/3/2014 3:20:00 PM
tert-Butylbenzene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Tetrachloroethene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Toluene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
trans-1,2-Dichloroethene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
trans-1,3-Dichloropropene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Trichloroethene	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Trichlorofluoromethane	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Vinyl acetate	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Vinyl chloride	ND	1.03	5.1	U	µg/Kg-dry	1	6/3/2014 3:20:00 PM
Surr: 4-Bromofluorobenzene	95.1	0	56-133		%REC	1	6/3/2014 3:20:00 PM
Surr: Dibromofluoromethane	98.4	0	60-132		%REC	1	6/3/2014 3:20:00 PM
Surr: Toluene-d8	98.3	0	69-125		%REC	1	6/3/2014 3:20:00 PM





American Analytical Laboratories, LLC.
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 Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	MB-1321	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2181
Client ID:	PBS	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/2/2014	SeqNo:	38368
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	ND	250									U
1,2,4-Trichlorobenzene	ND	250									U
1,2-Dichlorobenzene	ND	250									U
1,3-Dichlorobenzene	ND	250									U
1,4-Dichlorobenzene	ND	250									U
2,4,5-Trichlorophenol	ND	250									U
2,4,6-Trichlorophenol	ND	250									U
2,4-Dichlorophenol	ND	250									U
2,4-Dimethylphenol	ND	250									U
2,4-Dinitrophenol	ND	500									U*
2,4-Dinitrotoluene	ND	250									U
2,6-Dinitrotoluene	ND	250									U
2-Chloronaphthalene	ND	250									U
2-Chlorophenol	ND	250									U
2-Methylnaphthalene	ND	250									U
2-Methylphenol	ND	250									U
2-Nitroaniline	ND	250									U
2-Nitrophenol	ND	250									U
3+4-Methylphenol	ND	250									U
3-Nitroaniline	ND	250									U
4,6-Dinitro-2-methylphenol	ND	500									U
4-Bromophenyl phenyl ether	ND	250									U
4-Chloro-3-methylphenol	ND	250									U
4-Chloroaniline	ND	250									U
4-Chlorophenyl phenyl ether	ND	250									U
4-Nitroaniline	ND	250									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	MB-1321	SampType	MBLK	TestCode	8270_S	Units	µg/Kg	Prep Date	6/2/2014	RunNo	2181
Client ID	PBS	Batch ID	1321	TestNo	SW8270D	SW3546		Analysis Date	6/2/2014	SeqNo	38368
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	ND	500									U
Acenaphthene	ND	250									U
Acenaphthylene	ND	250									U
Acetophenone	ND	250									U
Aniline	ND	250									U
Anthracene	ND	250									U
Azobenzene	ND	250									U
Benzo(a)anthracene	ND	250									U
Benzo(a)pyrene	ND	150									U
Benzo(b)fluoranthene	ND	250									U
Benzo(g,h,i)perylene	ND	250									U
Benzo(k)fluoranthene	ND	250									U
Benzoic acid	ND	500									U*
Benzyl alcohol	ND	250									U
Bis(2-chloroethoxy)methane	ND	250									U
Bis(2-chloroethyl)ether	ND	250									U
Bis(2-chloroisopropyl)ether	ND	250									U
Bis(2-ethylhexyl)phthalate	ND	250									U
Butyl benzyl phthalate	32	250									J
Carbazole	ND	250									U
Chrysene	ND	250									U
Di-n-butyl phthalate	ND	250									U
Di-n-octyl phthalate	ND	500									U
Dibenzo(a,h)anthracene	ND	150									U
Dibenzofuran	ND	250									U
Diethyl phthalate	ND	250									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	MB-1321	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2181
Client ID:	PBS	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/2/2014	SeqNo:	38368
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dimethyl phthalate	ND	250									U
Fluoranthene	ND	250									U
Fluorene	ND	250									U
Hexachlorobenzene	ND	250									U
Hexachlorobutadiene	ND	250									U
Hexachlorocyclopentadiene	ND	250									U
Hexachloroethane	ND	250									U
Indeno(1,2,3-c,d)pyrene	ND	250									U
Isophorone	ND	250									U
N-Nitrosodi-n-propylamine	ND	150									U
N-Nitrosodimethylamine	ND	250									U
N-Nitrosodiphenylamine	ND	250									U
Naphthalene	ND	250									U
Nitrobenzene	ND	250									U
Parathion	ND	500									U
Pentachlorophenol	ND	500									U
Phenanthrene	ND	250									U
Phenol	ND	250									U
Pyrene	ND	250									U
Pyridine	ND	250									U
Surr: 2,4,6-Tribromophenol	1500		2000		74.9	11	135				
Surr: 2-Fluorobiphenyl	860		1000		86.2	21	143				
Surr: 2-Fluorophenol	2000		2000		102	14	122				
Surr: 4-Terphenyl-d14	920		1000		92.0	15	137				
Surr: Nitrobenzene-d5	830		1000		82.9	17	136				
Surr: Phenol-d6	2100		2000		103	10	116				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	MB-1321	SampType:	MBLK	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2181			
Client ID:	PBS	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/2/2014	SeqNo:	38368			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	LCS-1321	SampType:	LCS	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2181			
Client ID:	LCSS	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/2/2014	SeqNo:	38369			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Biphenyl	1100	250	2000	0	54.3	30	130							
1,2,4-Trichlorobenzene	1000	250	2000	0	51.2	30	125							
1,2-Dichlorobenzene	1100	250	2000	0	54.9	24	122							
1,3-Dichlorobenzene	1100	250	2000	0	53.3	25	125							
1,4-Dichlorobenzene	1100	250	2000	0	53.6	23	121							
2,4,5-Trichlorophenol	ND	250		0	0	21	131							U
2,4,6-Trichlorophenol	990	250	2000	0	49.7	25	130							
2,4-Dichlorophenol	990	250	2000	0	49.4	31	125							
2,4-Dimethylphenol	810	250	2000	0	40.5	17	132							
2,4-Dinitrophenol	320	500	2000	0	16.1	1	115							*
2,4-Dinitrotoluene	950	250	2000	0	47.6	30	134							
2,6-Dinitrotoluene	890	250	2000	0	44.7	24	130							
2-Chloronaphthalene	1100	250	2000	0	53.5	30	130							
2-Chlorophenol	1100	250	2000	0	54.5	32	134							
2-Methylnaphthalene	ND	250		0	0	22	128							U
2-Methylphenol	ND	250		0	0	21	127							U
2-Nitroaniline	ND	250		0	0	25	125							U
2-Nitrophenol	940	250	2000	0	47.2	16	146							
3+4-Methylphenol	ND	250		0	0	22	134							U
3-Nitroaniline	ND	250		0	0	20	120							U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	LCS-1321	SampType: LCS	TestCode: 8270_S	Units: µg/Kg	Prep Date: 6/2/2014	RunNo: 2181					
Client ID: LCSS	Batch ID: 1321	TestNo: SW8270D	SW3546	Analysis Date: 6/2/2014	SeqNo: 38369						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,6-Dinitro-2-methylphenol	630	500	2000	0	31.4	11	141				
4-Bromophenyl phenyl ether	1100	250	2000	0	54.9	35	135				
4-Chloro-3-methylphenol	1000	250	2000	0	50.1	19	139				
4-Chloroaniline	ND	250		0	0	11	121				U
4-Chlorophenyl phenyl ether	1100	250	2000	0	54.4	30	128				
4-Nitroaniline	ND	250		0	0	20	120				U
4-Nitrophenol	910	500	2000	0	45.7	17	140				
Acenaphthene	1100	250	2000	0	53.6	25	137				
Acenaphthylene	1000	250	2000	0	52.3	23	136				
Acetophenone	890	250	2000	0	44.7	30	125				
Aniline	ND	250		0	0	1	105				U
Anthracene	1100	250	2000	0	54.2	23	150				
Azobenzene	ND	250		0	0	20	130				U
Benzo(a)anthracene	1000	250	2000	0	50.9	31	140				
Benzo(a)pyrene	1000	150	2000	0	50.2	36	136				
Benzo(b)fluoranthene	1000	250	2000	0	51.1	30	140				m
Benzo(g,h,i)perylene	1000	250	2000	0	51.7	21	143				
Benzo(k)fluoranthene	1100	250	2000	0	52.7	30	140				
Benzoic acid	ND	500		0	0	5	105				U*
Benzyl alcohol	ND	250		0	0	20	125				U
Bis(2-chloroethoxy)methane	1100	250	2000	0	52.7	18	110				
Bis(2-chloroethyl)ether	1100	250	2000	0	56.0	30	131				
Bis(2-chloroisopropyl)ether	1100	250	2000	0	56.0	34	124				
Bis(2-ethylhexyl)phthalate	1000	250	2000	0	50.0	35	137				
Butyl benzyl phthalate	1100	250	2000	0	54.3	34	140				B
Carbazole	ND	250		0	0	20	130				U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	LCS-1321	SampType: LCS	TestCode: 8270_S	Units: µg/Kg	Prep Date: 6/2/2014	RunNo: 2181					
Client ID: LCSS	Batch ID: 1321	TestNo: SW8270D	SW3546	Analysis Date: 6/2/2014	SeqNo: 38369						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	1100	250	2000	0	53.1	31	133				
Di-n-butyl phthalate	1100	250	2000	0	53.8	35	131				
Di-n-octyl phthalate	880	500	2000	0	44.1	37	143				
Dibenzo(a,h)anthracene	1000	150	2000	0	50.7	24	145				
Dibenzofuran	ND	250		0	0	23	130				U
Diethyl phthalate	1000	250	2000	0	52.2	35	130				
Dimethyl phthalate	1000	250	2000	0	52.3	32	130				
Fluoranthene	1100	250	2000	0	52.6	21	139				
Fluorene	1100	250	2000	0	53.9	30	130				
Hexachlorobenzene	1100	250	2000	0	55.1	30	130				
Hexachlorobutadiene	1000	250	2000	0	52.1	30	125				
Hexachlorocyclopentadiene	900	250	2000	0	45.1	12	126				
Hexachloroethane	1100	250	2000	0	54.1	30	125				
Indeno(1,2,3-c,d)pyrene	950	250	2000	0	47.4	28	141				
Isophorone	1000	250	2000	0	51.3	30	125				
N-Nitrosodi-n-propylamine	1100	150	2000	0	57.4	39	125				
N-Nitrosodimethylamine	1000	250	2000	0	50.5	10	123				
N-Nitrosodiphenylamine	1200	250	2000	0	59.7	15	110				
Naphthalene	1000	250	2000	0	52.0	27	131				
Nitrobenzene	1000	250	2000	0	51.4	35	125				
Parathion	910	500	2000	0	45.6	30	140				
Pentachlorophenol	880	500	2000	0	44.0	10	132				
Phenanthrene	1100	250	2000	0	54.1	35	130				
Phenol	1100	250	2000	0	55.0	20	135				
Pyrene	1100	250	2000	0	53.5	30	152				
Pyridine	ND	250		0	0	1	101				U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	LCS-1321	SampType:	LCS	TestCode:	8270_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2181
Client ID:	LCSS	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/2/2014	SeqNo:	38369
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Surr: 2,4,6-Tribromophenol		1800			2000		88.5	11	135		
Surr: 2-Fluorobiphenyl		890			1000		89.3	21	143		
Surr: 2-Fluorophenol		1800			2000		88.9	14	122		
Surr: 4-Terphenyl-d14		920			1000		91.8	15	137		
Surr: Nitrobenzene-d5		860			1000		86.4	17	136		
Surr: Phenol-d6		1800			2000		91.7	10	116		

Sample ID	1406001-002BMS	SampType:	MS	TestCode:	8270_S	Units:	µg/Kg-dry	Prep Date:	6/2/2014	RunNo:	2181
Client ID:	B-2 (6')	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/3/2014	SeqNo:	38738
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Biphenyl		1100		260	2086	0	50.6	30	130		
1,2,4-Trichlorobenzene		1000		260	2086	0	48.1	21	128		
1,2-Dichlorobenzene		1100		260	2086	0	50.7	20	129		
1,3-Dichlorobenzene		1000		260	2086	0	49.9	19	122		
1,4-Dichlorobenzene		1000		260	2086	0	49.9	22	127		
2,4,5-Trichlorophenol		ND		260		0	0	23	129		U
2,4,6-Trichlorophenol		1100		260	2086	0	51.3	20	126		
2,4-Dichlorophenol		1100		260	2086	0	50.4	18	125		
2,4-Dimethylphenol		1100		260	2086	0	51.1	22	130		
2,4-Dinitrophenol		73		520	2086	0	3.48	1	132		J*
2,4-Dinitrotoluene		770		260	2086	0	36.7	21	124		
2,6-Dinitrotoluene		740		260	2086	0	35.7	20	127		
2-Chloronaphthalene		1100		260	2086	0	51.0	18	145		
2-Chlorophenol		1100		260	2086	0	51.8	18	117		

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	1406001-002BMS	SampType:	MS	TestCode:	8270_S	Units:	µg/Kg-dry	Prep Date:	6/2/2014	RunNo:	2181
Client ID:	B-2 (6')	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/3/2014	SeqNo:	38738
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	260		0	0	20	120				U
2-Methylphenol	ND	260		0	0	20	120				U
2-Nitroaniline	ND	260		0	0	20	120				U
2-Nitrophenol	680	260	2086	0	32.6	15	121				
3+4-Methylphenol	ND	260		0	0	25	137				U
3-Nitroaniline	ND	260		0	0	20	120				U
4,6-Dinitro-2-methylphenol	180	520	2086	0	8.60	12	128				JS
4-Bromophenyl phenyl ether	1000	260	2086	0	49.5	27	135				
4-Chloro-3-methylphenol	1000	260	2086	0	49.8	20	130				
4-Chloroaniline	ND	260		0	0	11	121				U
4-Chlorophenyl phenyl ether	1000	260	2086	0	49.8	35	125				
4-Nitroaniline	ND	260		0	0	20	120				U
4-Nitrophenol	890	520	2086	0	42.5	22	141				
Acenaphthene	1000	260	2086	0	49.7	24	132				
Acenaphthylene	1000	260	2086	0	49.3	22	134				
Acetophenone	860	260	2086	0	41.2	20	120				
Aniline	ND	260		0	0	1	105				U
Anthracene	1100	260	2086	0	51.9	23	139				
Azobenzene	ND	260		0	0	5	110				U
Benzo(a)anthracene	1100	260	2086	45.28	51.7	24	134				
Benzo(a)pyrene	1100	160	2086	36.93	49.3	23	136				
Benzo(b)fluoranthene	1000	260	2086	39.51	46.8	24	132				
Benzo(g,h,i)perylene	1100	260	2086	28.89	49.6	27	131				
Benzo(k)fluoranthene	1100	260	2086	37.69	49.6	25	135				
Benzoic acid	ND	520		0	0	5	131				U*
Benzyl alcohol	ND	260		0	0	20	130				U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	1406001-002BMS	SampType:	MS	TestCode:	8270_S	Units:	µg/Kg-dry	Prep Date:	6/2/2014	RunNo:	2181
Client ID:	B-2 (6')	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/3/2014	SeqNo:	38738
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bis(2-chloroethoxy)methane	1000	260	2086	0	48.8	23	133				
Bis(2-chloroethyl)ether	1100	260	2086	0	50.9	20	120				
Bis(2-chloroisopropyl)ether	1100	260	2086	0	52.3	32	120				
Bis(2-ethylhexyl)phthalate	1100	260	2086	35.09	53.0	28	144				
Butyl benzyl phthalate	1100	260	2086	27.03	52.6	28	142				B
Caprolactam	ND	260		0	0	20	130				U
Carbazole	ND	260		0	0	20	130				U
Chrysene	1100	260	2086	52.07	50.2	24	136				
Di-n-butyl phthalate	1100	260	2086	0	50.9	25	133				
Di-n-octyl phthalate	1000	520	2086	0	49.8	23	142				
Dibenzo(a,h)anthracene	1000	160	2086	0	48.2	24	134				
Dibenzofuran	ND	260		0	0	20	130				U
Diethyl phthalate	1000	260	2086	0	48.2	24	130				
Dimethyl phthalate	1000	260	2086	0	48.1	24	131				
Fluoranthene	1100	260	2086	94.28	50.4	22	122				
Fluorene	1100	260	2086	0	50.8	22	124				
Hexachlorobenzene	1000	260	2086	0	50.1	25	132				
Hexachlorobutadiene	1000	260	2086	0	48.7	23	123				
Hexachlorocyclopentadiene	590	260	2086	0	28.3	1	124				
Hexachloroethane	1000	260	2086	0	49.8	3	111				
Indeno(1,2,3-c,d)pyrene	1000	260	2086	27.30	48.5	26	140				
Isophorone	1000	260	2086	0	48.7	23	127				
N-Nitrosodi-n-propylamine	1100	160	2086	0	54.4	24	126				
N-Nitrosodimethylamine	920	260	2086	0	44.3	5	110				
N-Nitrosodiphenylamine	1200	260	2086	0	56.1	15	110				
Naphthalene	1000	260	2086	0	49.6	20	120				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	1406001-002BMS	SampType:	MS	TestCode:	8270_S	Units:	µg/Kg-dry	Prep Date:	6/2/2014	RunNo:	2181
Client ID:	B-2 (6')	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/3/2014	SeqNo:	38738
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrobenzene	920	260	2086	0	43.9	17	117				
Parathion	930	520	2086	0	44.4	30	140				
Pentachlorophenol	990	520	2086	0	47.6	17	116				
Phenanthrene	1100	260	2086	67.62	49.1	18	126				
Phenol	1100	260	2086	0	52.7	11	106				
Pyrene	1100	260	2086	77.12	49.1	20	137				
Pyridine	ND	260		0	0	10	120				U
Surr: 2,4,6-Tribromophenol	1800		2086		88.2	11	135				
Surr: 2-Fluorobiphenyl	870		1043		83.6	21	143				
Surr: 2-Fluorophenol	1900		2086		89.0	14	122				
Surr: 4-Terphenyl-d14	860		1043		82.4	15	137				
Surr: Nitrobenzene-d5	770		1043		74.2	17	136				
Surr: Phenol-d6	1900		2086		89.3	10	116				

Sample ID	1406001-002BMSD	SampType:	MSD	TestCode:	8270_S	Units:	µg/Kg-dry	Prep Date:	6/2/2014	RunNo:	2181
Client ID:	B-2 (6')	Batch ID:	1321	TestNo:	SW8270D	SW3546		Analysis Date:	6/3/2014	SeqNo:	38739
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biphenyl	1000	260	2093	0	49.7	30	130	1056	1.44	20	
1,2,4-Trichlorobenzene	970	260	2093	0	46.4	21	128	1004	3.30	20	
1,2-Dichlorobenzene	1100	260	2093	0	51.1	20	129	1058	1.10	20	
1,3-Dichlorobenzene	1000	260	2093	0	49.2	19	122	1041	1.16	20	
1,4-Dichlorobenzene	1000	260	2093	0	49.5	22	127	1040	0.334	20	
2,4,5-Trichlorophenol	ND	260		0	0	23	129	0	0	20	U
2,4,6-Trichlorophenol	1100	260	2093	0	52.2	20	126	1071	1.91	20	

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	1406001-002BMSD	SampType: MSD	TestCode: 8270_S	Units: µg/Kg-dry	Prep Date: 6/2/2014	RunNo: 2181					
Client ID:	B-2 (6')	Batch ID: 1321	TestNo: SW8270D	SW3546	Analysis Date: 6/3/2014	SeqNo: 38739					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	1000	260	2093	0	48.7	18	125	1051	3.16	20	
2,4-Dimethylphenol	1000	260	2093	0	50.1	22	130	1065	1.45	20	
2,4-Dinitrophenol	140	520	2093	0	6.59	1	132	72.56	62.1	20	JR*
2,4-Dinitrotoluene	840	260	2093	0	40.1	21	124	766.3	9.13	20	
2,6-Dinitrotoluene	820	260	2093	0	39.2	20	127	743.6	9.88	20	
2-Chloronaphthalene	1100	260	2093	0	50.6	18	145	1065	0.455	20	
2-Chlorophenol	1100	260	2093	0	52.7	18	117	1081	1.99	20	
2-Methylnaphthalene	ND	260		0	0	20	120	0	0	20	U
2-Methylphenol	ND	260		0	0	20	120	0	0	20	U
2-Nitroaniline	ND	260		0	0	20	120	0	0	20	U
2-Nitrophenol	780	260	2093	0	37.0	15	121	679.4	13.2	20	
3+4-Methylphenol	ND	260		0	0	25	137	0	0	20	U
3-Nitroaniline	ND	260		0	0	20	120	0	0	20	U
4,6-Dinitro-2-methylphenol	260	520	2093	0	12.7	12	128	179.3	38.5	20	JR
4-Bromophenyl phenyl ether	1000	260	2093	0	49.2	27	135	1031	0.164	20	
4-Chloro-3-methylphenol	1100	260	2093	0	51.2	20	130	1039	3.02	20	
4-Chloroaniline	ND	260		0	0	11	121	0	0	20	U
4-Chlorophenyl phenyl ether	1000	260	2093	0	49.6	35	125	1039	0.00425	20	
4-Nitroaniline	ND	260		0	0	20	120	0	0	20	U
4-Nitrophenol	990	520	2093	0	47.2	22	141	886.8	10.7	20	
Acenaphthene	1100	260	2093	0	50.3	24	132	1038	1.55	20	
Acenaphthylene	1000	260	2093	0	49.8	22	134	1028	1.27	20	
Acetophenone	860	260	2093	0	41.3	20	120	859.9	0.576	20	
Aniline	ND	260		0	0	1	105	0	0	20	U
Anthracene	1100	260	2093	0	51.5	23	139	1083	0.407	20	
Azobenzene	ND	260		0	0	5	110	0	0	20	U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	1406001-002BMSD	SampType: MSD	TestCode: 8270_S	Units: µg/Kg-dry	Prep Date: 6/2/2014	RunNo: 2181					
Client ID:	B-2 (6')	Batch ID: 1321	TestNo: SW8270D	SW3546	Analysis Date: 6/3/2014	SeqNo: 38739					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(a)anthracene	1100	260	2093	45.28	49.9	24	134	1123	2.94	20	
Benzo(a)pyrene	1000	160	2093	36.93	48.2	23	136	1064	1.71	20	
Benzo(b)fluoranthene	990	260	2093	39.51	45.3	24	132	1016	2.82	20	
Benzo(g,h,i)perylene	1000	260	2093	28.89	47.4	27	131	1063	4.09	20	
Benzo(k)fluoranthene	1100	260	2093	37.69	48.4	25	135	1073	2.18	20	
Benzoic acid	ND	520		0	0	5	131	0	0	20	U*
Benzyl alcohol	ND	260		0	0	20	130	0	0	20	U
Bis(2-chloroethoxy)methane	1000	260	2093	0	48.0	23	133	1017	1.28	20	
Bis(2-chloroethyl)ether	1100	260	2093	0	51.0	20	120	1062	0.432	20	
Bis(2-chloroisopropyl)ether	1100	260	2093	0	51.9	32	120	1092	0.528	20	
Bis(2-ethylhexyl)phthalate	1100	260	2093	35.09	53.2	28	144	1139	0.767	20	
Butyl benzyl phthalate	1100	260	2093	27.03	52.4	28	142	1124	0.0851	20	B
Caprolactam	ND	260		0	0	20	130	0	0	20	U
Carbazole	ND	260		0	0	20	130	0	0	20	U
Chrysene	1100	260	2093	52.07	48.1	24	136	1099	3.76	20	
Di-n-butyl phthalate	1100	260	2093	0	51.7	25	133	1062	1.76	20	
Di-n-octyl phthalate	1100	520	2093	0	51.5	23	142	1039	3.75	20	
Dibenzo(a,h)anthracene	1000	160	2093	0	47.8	24	134	1006	0.428	20	
Dibenzofuran	ND	260		0	0	20	130	0	0	20	U
Diethyl phthalate	1000	260	2093	0	49.0	24	130	1006	1.85	20	
Dimethyl phthalate	1000	260	2093	0	48.3	24	131	1004	0.661	20	
Fluoranthene	1100	260	2093	94.28	48.5	22	122	1146	3.29	20	
Fluorene	1100	260	2093	0	52.0	22	124	1060	2.71	20	
Hexachlorobenzene	1000	260	2093	0	49.0	25	132	1046	2.02	20	
Hexachlorobutadiene	1000	260	2093	0	48.1	23	123	1016	0.933	20	
Hexachlorocyclopentadiene	570	260	2093	0	27.1	1	124	591.0	4.30	20	

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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1321

Sample ID	1406001-002BMSD	SampType: MSD	TestCode: 8270_S	Units: µg/Kg-dry	Prep Date: 6/2/2014	RunNo: 2181					
Client ID:	B-2 (6')	Batch ID: 1321	TestNo: SW8270D	SW3546	Analysis Date: 6/3/2014	SeqNo: 38739					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloroethane	1100	260	2093	0	50.6	3	111	1039	1.90	20	
Indeno(1,2,3-c,d)pyrene	1000	260	2093	27.30	47.7	26	140	1038	1.30	20	
Isophorone	1000	260	2093	0	48.4	23	127	1015	0.242	20	
N-Nitrosodi-n-propylamine	1200	160	2093	0	55.3	24	126	1134	1.97	20	
N-Nitrosodimethylamine	900	260	2093	0	43.1	5	110	923.1	2.24	20	
N-Nitrosodiphenylamine	1200	260	2093	0	55.9	15	110	1171	0.0506	20	
Naphthalene	1000	260	2093	0	48.0	20	120	1034	2.80	20	
Nitrobenzene	920	260	2093	0	43.9	17	117	915.3	0.312	20	
Parathion	970	520	2093	0	46.3	30	140	926.4	4.39	20	
Pentachlorophenol	1100	520	2093	0	51.2	17	116	993.3	7.67	20	
Phenanthrene	1100	260	2093	67.62	48.5	18	126	1092	0.856	20	
Phenol	1100	260	2093	0	52.9	11	106	1099	0.686	20	
Pyrene	1100	260	2093	77.12	47.0	20	137	1101	3.78	20	
Pyridine	ND	260		0	0	10	120	0	0	20	U
Surr: 2,4,6-Tribromophenol	1900		2093		90.8	11	135		0	0	
Surr: 2-Fluorobiphenyl	870		1046		83.0	21	143		0	0	
Surr: 2-Fluorophenol	1800		2093		86.4	14	122		0	0	
Surr: 4-Terphenyl-d14	870		1046		83.0	15	137		0	0	
Surr: Nitrobenzene-d5	780		1046		74.2	17	136		0	0	
Surr: Phenol-d6	1900		2093		88.8	10	116		0	0	

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1326

Sample ID	LCS-1326	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/2/2014	RunNo: 2193					
Client ID: LCSS	Batch ID: 1326	TestNo: SW8260C	SW5035A	Analysis Date: 6/3/2014	SeqNo: 38492						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	38	5.0	50.00	0	76.1	40	125				
1,1,2,2-Tetrachloroethane	41	5.0	50.00	0	81.1	35	139				
1,1,2-Trichloroethane	38	5.0	50.00	0	77.0	40	124				
1,1-Dichloroethane	38	5.0	50.00	0	76.9	33	134				
1,1-Dichloroethene	38	5.0	50.00	0	75.3	30	141				
1,2-Dichlorobenzene	40	5.0	50.00	0	79.6	33	126				
1,2-Dichloroethane	36	5.0	50.00	0	71.2	36	131				
1,2-Dichloropropane	40	5.0	50.00	0	80.0	38	131				
1,3-Dichlorobenzene	40	5.0	50.00	0	79.8	31	130				
1,4-Dichlorobenzene	38	5.0	50.00	0	76.8	33	121				
2-Chloroethyl vinyl ether	32	5.0	50.00	0	63.1	36	138				*
2-Propanol	ND	5.0	50.00	0	0	35	120				SU
Benzene	38	5.0	50.00	0	75.4	36	126				
Bromodichloromethane	39	5.0	50.00	0	77.2	38	125				
Bromoform	43	5.0	50.00	0	85.7	36	131				
Bromomethane	28	5.0	50.00	0	55.1	23	135				
Carbon tetrachloride	38	5.0	50.00	0	75.9	37	130				
Chlorobenzene	41	5.0	50.00	0	81.9	41	123				
Chloroethane	52	5.0	50.00	0	104	20	128				
Chloroform	38	5.0	50.00	0	75.7	39	125				
Chloromethane	54	5.0	50.00	0	107	33	143				
cis-1,3-Dichloropropene	38	5.0	50.00	0	76.9	34	125				
Dibromochloromethane	38	5.0	50.00	0	76.8	36	125				
Ethylbenzene	43	5.0	50.00	0	85.4	42	124				
Methylene chloride	15	5.0	50.00	0	29.7	33	135				BS*
Tetrachloroethene	31	5.0	50.00	0	61.7	30	121				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1326

Sample ID	LCS-1326	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	LCSS	Batch ID:	1326	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38492
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	41	5.0	50.00	0	82.9	43	121				
trans-1,2-Dichloroethene	37	5.0	50.00	0	73.3	32	124				
trans-1,3-Dichloropropene	38	5.0	50.00	0	76.9	33	120				
Trichloroethene	39	5.0	50.00	0	77.6	40	124				
Trichlorofluoromethane	50	5.0	50.00	0	99.1	35	140				
Vinyl chloride	57	5.0	50.00	0	114	40	146				
Surr: 4-Bromofluorobenzene	48		50.00		96.3	56	133				
Surr: Dibromofluoromethane	49		50.00		98.1	60	132				
Surr: Toluene-d8	50		50.00		101	69	125				

Sample ID	MB-1326	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	PBS	Batch ID:	1326	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38493
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									U
1,1,1-Trichloroethane	ND	5.0									U
1,1,2,2-Tetrachloroethane	ND	5.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									U
1,1,2-Trichloroethane	ND	5.0									U
1,1-Dichloroethane	ND	5.0									U
1,1-Dichloroethene	ND	5.0									U
1,1-Dichloropropene	ND	5.0									U
1,2,3-Trichlorobenzene	ND	5.0									U
1,2,3-Trichloropropane	ND	5.0									U
1,2,4,5-Tetramethylbenzene	ND	5.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1326

Sample ID	MB-1326	SampType	MBLK	TestCode	8260_S	Units	µg/Kg	Prep Date	6/2/2014	RunNo	2193
Client ID	PBS	Batch ID	1326	TestNo	SW8260C	SW5035A		Analysis Date	6/3/2014	SeqNo	38493
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.0									U
1,2,4-Trimethylbenzene	ND	5.0									U
1,2-Dibromo-3-chloropropane	ND	5.0									U
1,2-Dibromoethane	ND	5.0									U
1,2-Dichlorobenzene	ND	5.0									U
1,2-Dichloroethane	ND	5.0									U
1,2-Dichloropropane	ND	5.0									U
1,3,5-Trimethylbenzene	ND	5.0									U
1,3-Dichlorobenzene	ND	5.0									U
1,3-dichloropropane	ND	5.0									U
1,4-Dichlorobenzene	ND	5.0									U
1,4-Dioxane	ND	5.0									U
2,2-Dichloropropane	ND	5.0									U
2-Butanone	ND	10									U*
2-Chloroethyl vinyl ether	ND	5.0									U*
2-Chlorotoluene	ND	5.0									U
2-Hexanone	ND	10									U
2-Propanol	ND	5.0									U
4-Chlorotoluene	ND	5.0									U
4-Isopropyltoluene	ND	5.0									U
4-Methyl-2-pentanone	ND	10									U
Acetone	2.8	10									J*
Benzene	ND	5.0									U
Bromobenzene	ND	5.0									U
Bromochloromethane	ND	5.0									U
Bromodichloromethane	ND	5.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1326

Sample ID	MB-1326	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2193	
Client ID:	PBS	Batch ID:	1326	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38493	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform		ND	5.0									U
Bromomethane		ND	5.0									U
Carbon disulfide		ND	5.0									U
Carbon tetrachloride		ND	5.0									U
Chlorobenzene		ND	5.0									U
Chlorodifluoromethane		ND	5.0									U
Chloroethane		ND	5.0									U
Chloroform		ND	5.0									U
Chloromethane		ND	5.0									U
cis-1,2-Dichloroethene		ND	5.0									U
cis-1,3-Dichloropropene		ND	5.0									U
Cyclohexane		ND	5.0									U
Dibromochloromethane		ND	5.0									U
Dibromomethane		ND	5.0									U
Dichlorodifluoromethane		ND	5.0									U*
Diisopropyl ether		ND	5.0									U
Ethanol		ND	20									U
Ethylbenzene		ND	5.0									U
Freon-114		ND	5.0									U*
Hexachlorobutadiene		ND	5.0									U
Isopropylbenzene		ND	5.0									U
m,p-Xylene		ND	10									U
Methyl Acetate		ND	5.0									U
Methyl tert-butyl ether		ND	5.0									U
Methylene chloride		4.8	5.0									J*
n-Butylbenzene		ND	5.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1326

Sample ID	MB-1326	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	PBS	Batch ID:	1326	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38493
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									U
Naphthalene	ND	5.0									U
o-Xylene	ND	5.0									U
p-Diethylbenzene	ND	5.0									U
p-Ethyltoluene	ND	5.0									U
sec-Butylbenzene	ND	5.0									U
Styrene	ND	5.0									U
t-Butyl alcohol	ND	5.0									U
tert-Butylbenzene	ND	5.0									U
Tetrachloroethene	ND	5.0									U
Toluene	ND	5.0									U
trans-1,2-Dichloroethene	ND	5.0									U
trans-1,3-Dichloropropene	ND	5.0									U
Trichloroethene	ND	5.0									U
Trichlorofluoromethane	ND	5.0									U
Vinyl acetate	ND	5.0									U
Vinyl chloride	ND	5.0									U
Surr: 4-Bromofluorobenzene	48		50.00		95.7	56	133				
Surr: Dibromofluoromethane	49		50.00		98.1	60	132				
Surr: Toluene-d8	49		50.00		98.1	69	125				

Sample ID	1406001-006AMS	SampType:	MS	TestCode:	8260_S	Units:	µg/Kg-dry	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	B-6 (3-5')	Batch ID:	1326	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38500
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1326

Sample ID	1406001-006AMS	SampType:	MS	TestCode:	8260_S	Units:	µg/Kg-dry	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	B-6 (3-5')	Batch ID:	1326	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38500
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	35	5.3	52.85	0	66.4	26	108				
1,1,2,2-Tetrachloroethane	36	5.3	52.85	0	67.4	18	109				
1,1,2-Trichloroethane	33	5.3	52.85	0	63.0	21	105				
1,1-Dichloroethane	34	5.3	52.85	0	65.2	28	108				
1,1-Dichloroethene	34	5.3	52.85	0	64.6	24	110				
1,2-Dichlorobenzene	25	5.3	52.85	0	47.4	18	108				
1,2-Dichloroethane	30	5.3	52.85	0	56.4	21	105				
1,2-Dichloropropane	35	5.3	52.85	0	66.6	29	107				
1,3-Dichlorobenzene	25	5.3	52.85	0	47.0	20	115				
1,4-Dichlorobenzene	23	5.3	52.85	0	43.3	21	117				
2-Chloroethyl vinyl ether	9.2	5.3	52.85	0	17.4	18	113				S*
2-Propanol	ND	5.3	52.85	0	0	20	120				SU
Benzene	34	5.3	52.85	0	63.8	30	103				
Bromodichloromethane	33	5.3	52.85	0	63.2	22	106				
Bromoform	36	5.3	52.85	0	68.5	20	113				
Bromomethane	17	5.3	52.85	0	31.6	20	130				
Carbon tetrachloride	35	5.3	52.85	0	67.1	23	111				
Chlorobenzene	31	5.3	52.85	0	58.6	27	117				
Chloroethane	45	5.3	52.85	0	85.1	30	130				
Chloroform	33	5.3	52.85	0	63.3	24	112				
Chloromethane	37	5.3	52.85	0	70.6	21	130				
cis-1,3-Dichloropropene	29	5.3	52.85	0	54.9	20	104				
Dibromochloromethane	32	5.3	52.85	0	60.9	22	104				
Ethylbenzene	36	5.3	52.85	0	67.2	30	115				
Methylene chloride	14	5.3	52.85	5.182	15.8	22	104				BS*
Tetrachloroethene	28	5.3	52.85	0	52.2	20	103				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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 Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: **1406001**
04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1326

Sample ID	1406001-006AMS	SampType:	MS	TestCode:	8260_S	Units:	µg/Kg-dry	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	B-6 (3-5')	Batch ID:	1326	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38500
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	35	5.3	52.85	0	65.3	20	115				
trans-1,2-Dichloroethene	30	5.3	52.85	0	57.5	23	107				
trans-1,3-Dichloropropene	29	5.3	52.85	0	54.9	20	105				
Trichloroethene	33	5.3	52.85	0	62.2	22	138				
Trichlorofluoromethane	47	5.3	52.85	0	88.1	22	131				
Vinyl chloride	47	5.3	52.85	0	89.1	30	130				
Surr: 4-Bromofluorobenzene	50		52.85		94.6	56	133				
Surr: Dibromofluoromethane	52		52.85		98.6	60	132				
Surr: Toluene-d8	53		52.85		101	69	125				

Sample ID	1406001-006AMSD	SampType:	MSD	TestCode:	8260_S	Units:	µg/Kg-dry	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	B-6 (3-5')	Batch ID:	1326	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38501
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	40	5.4	54.32	0	72.9	26	108	35.07	12.2	20	
1,1,2,2-Tetrachloroethane	40	5.4	54.32	0	73.1	18	109	35.61	10.8	20	
1,1,2-Trichloroethane	38	5.4	54.32	0	69.4	21	105	33.29	12.4	20	
1,1-Dichloroethane	39	5.4	54.32	0	71.3	28	108	34.47	11.7	20	
1,1-Dichloroethene	39	5.4	54.32	0	71.1	24	110	34.13	12.3	20	
1,2-Dichlorobenzene	30	5.4	54.32	0	54.8	18	108	25.04	17.2	20	
1,2-Dichloroethane	35	5.4	54.32	0	63.7	21	105	29.79	14.9	20	
1,2-Dichloropropane	40	5.4	54.32	0	73.2	29	107	35.17	12.2	20	
1,3-Dichlorobenzene	29	5.4	54.32	0	54.1	20	115	24.86	16.7	20	
1,4-Dichlorobenzene	27	5.4	54.32	0	50.0	21	117	22.89	17.1	20	
2-Chloroethyl vinyl ether	14	5.4	54.32	0	25.5	18	113	9.174	40.6	20	R*

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1326

Sample ID	1406001-006AMSD	SampType: MSD	TestCode: 8260_S	Units: µg/Kg-dry	Prep Date: 6/2/2014	RunNo: 2193					
Client ID:	B-6 (3-5')	Batch ID: 1326	TestNo: SW8260C	SW5035A	Analysis Date: 6/3/2014	SeqNo: 38501					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Propanol	ND	5.4	54.32	0	0	20	120	0	0	20	SU
Benzene	38	5.4	54.32	0	70.4	30	103	33.71	12.6	20	
Bromodichloromethane	38	5.4	54.32	0	70.5	22	106	33.42	13.6	20	
Bromoform	40	5.4	54.32	0	73.9	20	113	36.18	10.4	20	
Bromomethane	24	5.4	54.32	0	43.9	20	130	16.70	35.3	20	R
Carbon tetrachloride	40	5.4	54.32	0	73.8	23	111	35.44	12.4	20	
Chlorobenzene	37	5.4	54.32	0	67.3	27	117	30.99	16.5	20	
Chloroethane	51	5.4	54.32	0	94.7	30	130	44.96	13.4	20	
Chloroform	38	5.4	54.32	0	70.0	24	112	33.46	12.7	20	
Chloromethane	50	5.4	54.32	0	92.7	21	130	37.32	29.8	20	R
cis-1,3-Dichloropropene	34	5.4	54.32	0	62.1	20	104	29.03	14.9	20	
Dibromochloromethane	37	5.4	54.32	0	68.6	22	104	32.20	14.6	20	
Ethylbenzene	41	5.4	54.32	0	75.3	30	115	35.51	14.1	20	
Methylene chloride	15	5.4	54.32	5.182	18.8	22	104	13.51	12.9	20	BS*
Tetrachloroethene	31	5.4	54.32	0	57.3	20	103	27.59	12.0	20	
Toluene	39	5.4	54.32	0	72.2	20	115	34.52	12.7	20	
trans-1,2-Dichloroethene	35	5.4	54.32	0	64.5	23	107	30.40	14.2	20	
trans-1,3-Dichloropropene	34	5.4	54.32	0	62.1	20	105	29.03	14.9	20	
Trichloroethene	37	5.4	54.32	0	68.2	22	138	32.89	11.8	20	
Trichlorofluoromethane	52	5.4	54.32	0	96.2	22	131	46.55	11.6	20	
Vinyl chloride	56	5.4	54.32	0	103	30	130	47.09	17.7	20	
Surr: 4-Bromofluorobenzene	51		54.32		94.6	56	133		0	0	
Surr: Dibromofluoromethane	54		54.32		99.7	60	132		0	0	
Surr: Toluene-d8	55		54.32		101	69	125		0	0	

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1327

Sample ID	LCS-1327	SampType: LCS	TestCode: 8260_S	Units: µg/Kg	Prep Date: 6/2/2014	RunNo: 2193						
Client ID: LCSS	Batch ID: 1327	TestNo: SW8260C	SW5035A	Analysis Date: 6/3/2014	SeqNo: 38894							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1-Trichloroethane	37	5.0	50.00	0	73.4	40	125					
1,1,2,2-Tetrachloroethane	40	5.0	50.00	0	79.1	35	139					
1,1,2-Trichloroethane	39	5.0	50.00	0	77.9	40	124					
1,1-Dichloroethane	37	5.0	50.00	0	74.8	33	134					
1,1-Dichloroethene	36	5.0	50.00	0	72.4	30	141					
1,2-Dichlorobenzene	38	5.0	50.00	0	76.9	33	126					
1,2-Dichloroethane	35	5.0	50.00	0	70.5	36	131					
1,2-Dichloropropane	39	5.0	50.00	0	77.5	38	131					
1,3-Dichlorobenzene	39	5.0	50.00	0	77.1	31	130					
1,4-Dichlorobenzene	36	5.0	50.00	0	72.9	33	121					
2-Chloroethyl vinyl ether	19	5.0	50.00	0	37.6	36	138				*	
2-Propanol	ND	5.0	50.00	0	0	35	120				SU	
Benzene	37	5.0	50.00	0	74.2	36	126					
Bromodichloromethane	38	5.0	50.00	0	75.7	38	125					
Bromoform	43	5.0	50.00	0	86.0	36	131					
Bromomethane	23	5.0	50.00	0	46.6	23	135				*	
Carbon tetrachloride	37	5.0	50.00	0	73.4	37	130					
Chlorobenzene	39	5.0	50.00	0	78.5	41	123					
Chloroethane	46	5.0	50.00	0	92.8	20	128					
Chloroform	37	5.0	50.00	0	73.6	39	125					
Chloromethane	45	5.0	50.00	0	90.3	33	143					
cis-1,3-Dichloropropene	38	5.0	50.00	0	75.0	34	125					
Dibromochloromethane	38	5.0	50.00	0	76.6	36	125					
Ethylbenzene	41	5.0	50.00	0	81.5	42	124					
Methylene chloride	15	5.0	50.00	0	29.2	33	135				BS*	
Tetrachloroethene	30	5.0	50.00	0	59.2	30	121					

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1327

Sample ID	LCS-1327	SampType:	LCS	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	LCSS	Batch ID:	1327	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38894
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	39	5.0	50.00	0	77.1	43	121				
trans-1,2-Dichloroethene	36	5.0	50.00	0	71.8	32	124				
trans-1,3-Dichloropropene	38	5.0	50.00	0	75.0	33	120				
Trichloroethene	39	5.0	50.00	0	77.7	40	124				
Trichlorofluoromethane	47	5.0	50.00	0	93.9	35	140				
Vinyl chloride	51	5.0	50.00	0	103	40	146				
Surr: 4-Bromofluorobenzene	48		50.00		95.2	56	133				
Surr: Dibromofluoromethane	50		50.00		99.8	60	132				
Surr: Toluene-d8	50		50.00		101	69	125				

Sample ID	MB-1327	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	PBS	Batch ID:	1327	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38895
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									U
1,1,1-Trichloroethane	ND	5.0									U
1,1,2,2-Tetrachloroethane	ND	5.0									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									U
1,1,2-Trichloroethane	ND	5.0									U
1,1-Dichloroethane	ND	5.0									U
1,1-Dichloroethene	ND	5.0									U
1,1-Dichloropropene	ND	5.0									U
1,2,3-Trichlorobenzene	ND	5.0									U
1,2,3-Trichloropropane	ND	5.0									U
1,2,4,5-Tetramethylbenzene	ND	5.0									U*

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1327

Sample ID	MB-1327	SampType	MBLK	TestCode	8260_S	Units	µg/Kg	Prep Date	6/2/2014	RunNo	2193
Client ID	PBS	Batch ID	1327	TestNo	SW8260C	SW5035A		Analysis Date	6/3/2014	SeqNo	38895
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	5.0									U
1,2,4-Trimethylbenzene	ND	5.0									U
1,2-Dibromo-3-chloropropane	ND	5.0									U
1,2-Dibromoethane	ND	5.0									U
1,2-Dichlorobenzene	ND	5.0									U
1,2-Dichloroethane	ND	5.0									U
1,2-Dichloropropane	ND	5.0									U
1,3,5-Trimethylbenzene	ND	5.0									U
1,3-Dichlorobenzene	ND	5.0									U
1,3-dichloropropane	ND	5.0									U
1,4-Dichlorobenzene	ND	5.0									U
1,4-Dioxane	ND	5.0									U
2,2-Dichloropropane	ND	5.0									U
2-Butanone	ND	10									U*
2-Chloroethyl vinyl ether	ND	5.0									U*
2-Chlorotoluene	ND	5.0									U
2-Hexanone	ND	10									U
2-Propanol	ND	5.0									U
4-Chlorotoluene	ND	5.0									U
4-Isopropyltoluene	ND	5.0									U
4-Methyl-2-pentanone	ND	10									U
Acetone	2.1	10									J*
Benzene	ND	5.0									U
Bromobenzene	ND	5.0									U
Bromochloromethane	ND	5.0									U
Bromodichloromethane	ND	5.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1327

Sample ID	MB-1327	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	PBS	Batch ID:	1327	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38895
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	5.0									U
Bromomethane	ND	5.0									U*
Carbon disulfide	ND	5.0									U
Carbon tetrachloride	ND	5.0									U
Chlorobenzene	ND	5.0									U
Chlorodifluoromethane	ND	5.0									U
Chloroethane	ND	5.0									U
Chloroform	ND	5.0									U
Chloromethane	ND	5.0									U
cis-1,2-Dichloroethene	ND	5.0									U
cis-1,3-Dichloropropene	ND	5.0									U
Cyclohexane	ND	5.0									U
Dibromochloromethane	ND	5.0									U
Dibromomethane	ND	5.0									U
Dichlorodifluoromethane	ND	5.0									U*
Diisopropyl ether	ND	5.0									U
Ethanol	ND	20									U
Ethylbenzene	ND	5.0									U
Freon-114	ND	5.0									U*
Hexachlorobutadiene	ND	5.0									U
Isopropylbenzene	ND	5.0									U
m,p-Xylene	ND	10									U
Methyl Acetate	ND	5.0									U
Methyl tert-butyl ether	ND	5.0									U
Methylene chloride	4.5	5.0									J*
n-Butylbenzene	ND	5.0									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1327

Sample ID	MB-1327	SampType:	MBLK	TestCode:	8260_S	Units:	µg/Kg	Prep Date:	6/2/2014	RunNo:	2193
Client ID:	PBS	Batch ID:	1327	TestNo:	SW8260C	SW5035A		Analysis Date:	6/3/2014	SeqNo:	38895
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Propylbenzene	ND	5.0									U
Naphthalene	ND	5.0									U
o-Xylene	ND	5.0									U
p-Diethylbenzene	ND	5.0									U
p-Ethyltoluene	ND	5.0									U
sec-Butylbenzene	ND	5.0									U
Styrene	ND	5.0									U
t-Butyl alcohol	ND	5.0									U*
tert-Butylbenzene	ND	5.0									U
Tetrachloroethene	ND	5.0									U
Toluene	ND	5.0									U
trans-1,2-Dichloroethene	ND	5.0									U
trans-1,3-Dichloropropene	ND	5.0									U
Trichloroethene	ND	5.0									U
Trichlorofluoromethane	ND	5.0									U
Vinyl acetate	ND	5.0									U
Vinyl chloride	ND	5.0									U
Surr: 4-Bromofluorobenzene	48		50.00		96.6	56	133				
Surr: Dibromofluoromethane	49		50.00		97.8	60	132				
Surr: Toluene-d8	50		50.00		99.6	69	125				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1339

Sample ID	MBS060314A	SampType:	MBLK	TestCode:	ICPSCAN_S	Units:	mg/Kg	Prep Date:	6/3/2014	RunNo:	2199
Client ID:	PBS	Batch ID:	1339	TestNo:	SW6010C		SW3050B	Analysis Date:	6/3/2014	SeqNo:	38617
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.400									U
Antimony	ND	0.500									U
Arsenic	ND	0.500									U
Barium	ND	0.400									U
Beryllium	ND	0.400									U
Boron	ND	0.400									U
Cadmium	ND	0.400									U
Calcium	ND	0.500									U
Chromium	ND	0.400									U
Cobalt	ND	0.400									U
Copper	ND	0.400									U
Iron	ND	0.400									U
Lead	ND	0.400									U
Magnesium	ND	0.400									U
Manganese	ND	0.400									U
Molybdenum	ND	0.400									U
Nickel	ND	0.400									U
Potassium	ND	0.500									U
Selenium	ND	0.500									U
Silicon	ND	0.500									U
Silver	ND	0.400									U
Sodium	ND	0.500									U
Thallium	ND	0.500									U
Tin	ND	0.400									U
Titanium	ND	0.400									U
Vanadium	ND	0.400									U

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



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 Website: www.American-Analytical.com

QC SUMMARY REPORT

WO#: 1406001
 04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1339

Sample ID	MBS060314A	SampType:	MBLK	TestCode:	ICPSCAN_S	Units:	mg/Kg	Prep Date:	6/3/2014	RunNo:	2199
Client ID:	PBS	Batch ID:	1339	TestNo:	SW6010C	SW3050B		Analysis Date:	6/3/2014	SeqNo:	38617
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Zinc		ND		0.400							U

Sample ID	LCSS060314A	SampType:	LCS	TestCode:	ICPSCAN_S	Units:	mg/Kg	Prep Date:	6/3/2014	RunNo:	2199
Client ID:	LCSS	Batch ID:	1339	TestNo:	SW6010C	SW3050B		Analysis Date:	6/3/2014	SeqNo:	38618
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Aluminum		39.9		0.400	40.00	0	99.7	80	120		
Antimony		40.6		0.500	40.00	0	101	80	120		
Arsenic		40.2		0.500	40.00	0	101	80	120		
Barium		39.8		0.400	40.00	0	99.6	80	120		
Beryllium		40.7		0.400	40.00	0	102	80	120		
Cadmium		40.2		0.400	40.00	0	100	80	120		
Calcium		41.0		0.500	40.00	0	102	80	120		
Chromium		40.7		0.400	40.00	0	102	80	120		
Cobalt		41.3		0.400	40.00	0	103	80	120		
Copper		40.7		0.400	40.00	0	102	80	120		
Iron		40.7		0.400	40.00	0	102	80	120		
Lead		40.1		0.400	40.00	0	100	80	120		
Magnesium		40.6		0.400	40.00	0	101	80	120		
Manganese		40.5		0.400	40.00	0	101	80	120		
Molybdenum		40.5		0.400	40.00	0	101	80	120		
Nickel		40.7		0.400	40.00	0	102	80	120		
Potassium		406		0.500	400.0	0	102	80	120		
Selenium		40.7		0.500	40.00	0	102	80	120		
Silver		40.6		0.400	40.00	0	101	80	120		

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1339

Sample ID	LCSS060314A	SampType: LCS	TestCode: ICPSCAN_S	Units: mg/Kg	Prep Date: 6/3/2014	RunNo: 2199					
Client ID:	LCSS	Batch ID: 1339	TestNo: SW6010C	SW3050B	Analysis Date: 6/3/2014	SeqNo: 38618					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	41.4	0.500	40.00	0	104	80	120				
Thallium	40.5	0.500	40.00	0	101	80	120				
Vanadium	40.5	0.400	40.00	0	101	80	120				
Zinc	39.2	0.400	40.00	0	98.1	80	120				

Sample ID	1406003-002BMS	SampType: MS	TestCode: ICPSCAN_S	Units: mg/Kg-dry	Prep Date: 6/3/2014	RunNo: 2199					
Client ID:	BatchQC	Batch ID: 1339	TestNo: SW6010C	SW3050B	Analysis Date: 6/3/2014	SeqNo: 38632					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	485	0.510	25.51	474.2	42.5	75	125				S
Antimony	25.9	0.638	25.51	0	102	75	125				
Arsenic	26.1	0.638	25.51	0.3770	101	75	125				
Barium	32.0	0.510	25.51	5.921	102	75	125				
Beryllium	25.5	0.510	25.51	0	99.9	75	125				
Boron	ND	0.510		0	0	75	125				U
Cadmium	25.6	0.510	25.51	0	101	75	125				
Calcium	188	0.638	25.51	169.4	72.5	75	125				S
Chromium	28.0	0.510	25.51	1.786	103	75	125				
Cobalt	24.8	0.510	25.51	0	97.2	75	125				
Copper	68.3	0.510	25.51	44.63	92.8	75	125				
Iron	874	0.510	25.51	887.7	-54.6	75	125				S
Lead	28.0	0.510	25.51	2.854	98.6	75	125				
Magnesium	117	0.510	25.51	96.77	80.4	75	125				
Manganese	33.7	0.510	25.51	8.093	100	75	125				
Molybdenum	26.4	0.510	25.51	0.1628	103	75	125				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1339

Sample ID	1406003-002BMS	SampType:	MS	TestCode:	ICPSCAN_S	Units:	mg/Kg-dry	Prep Date:	6/3/2014	RunNo:	2199
Client ID:	BatchQC	Batch ID:	1339	TestNo:	SW6010C	SW3050B		Analysis Date:	6/3/2014	SeqNo:	38632
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nickel	26.4	0.510	25.51	0.7141	101	75	125				
Potassium	310	0.638	255.1	46.32	103	75	125				
Selenium	26.1	0.638	25.51	0	102	75	125				
Silicon	ND	0.638		0	0	75	125				U
Silver	25.0	0.510	25.51	0	98.0	75	125				
Sodium	42.1	0.638	25.51	15.25	105	75	125				
Thallium	25.5	0.638	25.51	0	99.9	75	125				
Tin	ND	0.510		0	0	75	125				U
Titanium	ND	0.510		0	0	75	125				U
Vanadium	27.9	0.510	25.51	1.832	102	75	125				
Zinc	52.6	0.510	25.51	28.73	93.4	75	125				

Sample ID	1406003-002BMSD	SampType:	MSD	TestCode:	ICPSCAN_S	Units:	mg/Kg-dry	Prep Date:	6/3/2014	RunNo:	2199
Client ID:	BatchQC	Batch ID:	1339	TestNo:	SW6010C	SW3050B		Analysis Date:	6/3/2014	SeqNo:	38633
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	482	0.508	25.41	474.2	31.1	75	125	485.0	0.604	20	S
Antimony	25.8	0.635	25.41	0	102	75	125	25.94	0.533	20	
Arsenic	26.2	0.635	25.41	0.3770	102	75	125	26.07	0.398	20	
Barium	31.7	0.508	25.41	5.921	101	75	125	31.97	0.890	20	
Beryllium	25.4	0.508	25.41	0	100	75	125	25.48	0.233	20	
Boron	ND	0.508		0	0	75	125	0	0	20	U
Cadmium	25.6	0.508	25.41	0	101	75	125	25.64	0.215	20	
Calcium	188	0.635	25.41	169.4	71.8	75	125	187.9	0.132	20	S
Chromium	27.9	0.508	25.41	1.786	103	75	125	27.98	0.266	20	

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: 1406001

04-Jun-14

Client: J.R. Holzmacher P.E. LLC

Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1339

Sample ID	1406003-002BMSD	SampType:	MSD	TestCode:	ICPSCAN_S	Units:	mg/Kg-dry	Prep Date:	6/3/2014	RunNo:	2199
Client ID:	BatchQC	Batch ID:	1339	TestNo:	SW6010C	SW3050B		Analysis Date:	6/3/2014	SeqNo:	38633
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cobalt	24.7	0.508	25.41	0	97.3	75	125	24.79	0.236	20	
Copper	67.9	0.508	25.41	44.63	91.7	75	125	68.29	0.536	20	
Iron	871	0.508	25.41	887.7	-65.7	75	125	873.8	0.319	20	S
Lead	28.0	0.508	25.41	2.854	98.8	75	125	28.00	0.117	20	
Magnesium	117	0.508	25.41	96.77	80.6	75	125	117.3	0.0414	20	
Manganese	33.6	0.508	25.41	8.093	100	75	125	33.71	0.268	20	
Molybdenum	26.5	0.508	25.41	0.1628	104	75	125	26.41	0.538	20	
Nickel	26.4	0.508	25.41	0.7141	101	75	125	26.36	0.342	20	
Potassium	309	0.635	254.1	46.32	103	75	125	309.6	0.139	20	
Selenium	26.0	0.635	25.41	0	102	75	125	26.10	0.402	20	
Silicon	ND	0.635		0	0	75	125	0	0	20	U
Silver	25.0	0.508	25.41	0	98.4	75	125	24.99	0.0102	20	
Sodium	41.9	0.635	25.41	15.25	105	75	125	42.06	0.390	20	
Thallium	25.4	0.635	25.41	0	99.9	75	125	25.48	0.351	20	
Tin	ND	0.508		0	0	75	125	0	0	20	U
Titanium	ND	0.508		0	0	75	125	0	0	20	U
Vanadium	27.8	0.508	25.41	1.832	102	75	125	27.93	0.472	20	
Zinc	52.5	0.508	25.41	28.73	93.4	75	125	52.56	0.175	20	

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits



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QC SUMMARY REPORT

WO#: **1406001**
04-Jun-14

Client: J.R. Holzmacher P.E. LLC
Project: Gertz Plaza, 163-05 & 163-27 Archer Ave., Jam

BatchID: 1355

Sample ID	1406003-002BMS	SampType: MS	TestCode: HG_S	Units: mg/Kg-dry	Prep Date: 6/4/2014	RunNo: 2206					
Client ID:	BatchQC	Batch ID: 1355	TestNo: SW7471B	SW7471B	Analysis Date: 6/4/2014	SeqNo: 38817					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.254	0.0155	0.2576	0.01251	93.6	80	120				

Sample ID	1406003-002BMSD	SampType: MSD	TestCode: HG_S	Units: mg/Kg-dry	Prep Date: 6/4/2014	RunNo: 2206					
Client ID:	BatchQC	Batch ID: 1355	TestNo: SW7471B	SW7471B	Analysis Date: 6/4/2014	SeqNo: 38818					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.263	0.0153	0.2551	0.01251	98.1	80	120	0.2537	3.48	20	

Sample ID	MBS060414A	SampType: MBLK	TestCode: HG_S	Units: mg/Kg	Prep Date: 6/4/2014	RunNo: 2206					
Client ID:	PBS	Batch ID: 1355	TestNo: SW7471B	SW7471B	Analysis Date: 6/4/2014	SeqNo: 38852					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0120									U

Sample ID	LCSS060414A	SampType: LCS	TestCode: HG_S	Units: mg/Kg	Prep Date: 6/4/2014	RunNo: 2206					
Client ID:	LCSS	Batch ID: 1355	TestNo: SW7471B	SW7471B	Analysis Date: 6/4/2014	SeqNo: 38855					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.179	0.0120	0.2000	0	89.3	80	120				

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits